REPORT OF THE 43RD SESSION OF THE

IALA VESSEL TRAFFIC SERVICES

(VTS) COMMITTEE

20 to 24 March 2017

This page intentionally blank

Report of the 43rd Session of the IALA
Vessel Traffic Services (VTS) Committee
Executive Summary

The 43rd Session of the VTS Committee was held at IALA Headquarters from 20 to 24 March 2017.

78 Delegates from 29 countries, 3 sister organisations and 1 observer participated in VTS43. Significantly, this included 22 participants for the first time;

This was the sixth meeting for the 2014-2018 Work Programme and the VTS Committee considered 67 input papers and produced 20 output papers of three Working Groups.

Key outputs included:

- Completion of a draft output proposal to the IMO for a review of IMO Resolution A.857(20) Guidelines for Vessel Traffic Services.   As stated in the IALA VTS Strategy the document was forwarded to Council for approval.

    o After approval, the Secretariat is requested to forward the draft document to IALA national members for their consideration as the basis for sponsoring a submission to the IMO.

    In addition, Committee Participants were requested to forward the draft proposal to their national administration for their consideration with regards to seeking their intention to sponsor.

- A minor revision of the Recommendation V-103 on Standards on Training and Certification of VTS Personnel to reflect the introduction of the new IALA Model Course V-103/5, and other minor amendments, pending a full review of the Recommendation in the 2018-2022 Work Programme.

A review of the 2014-2018 Work Programme highlighted that approximately 50% of the 21 Tasks have been completed to date. The overall status of the VTS Committees 2014-2018 Work Programme is summarised below.

The following liaison notes to Council were prepared:

- to approve the revised of the Recommendation V-103 on Standards on Training and Certification of VTS Personnel reflecting the introduction of IALA Model Course V-103/5 on the Revalidation Process for VTS Qualification and Certification in 2016;

- to approve the name change of two Tasks of the 2014-2018 Work Programme. That is:

    o Guideline on Measures to Evaluate the Effectiveness of a VTS (Task 1.1.6); and

    o Guideline on the technical interface between VTS systems and the systems of other stakeholders" (Task 2.3.1);

- to approve two submissions to IMO, including:

    o draft output proposal for a review of IMO Resolution A.857(20) Guidelines for Vessel Traffic Services.; and

    o draft update to MSC/Circ.1065 on the IALA Standards for training and certification of Vessel Traffic Service (VTS) personnel to reflect the publication of IALA Model Course V-103/5 on the revalidation process for VTS qualification and certification. on Resolution A857.(20) and Circ. 1065 including draft proposals;

- to approve the removal of Task 1.2.1 on media relations from the 2014-2018 Work Programme.

The following liaison notes to Secretariat, other Committees and PAP were prepared:

- to ENAV, Joint VTS/ENAV WG and Secretariat with regards to the review of IALA documents relevant to the introduction of VDES and the withdraw of Guideline 1032 on aspects of training of VTS personnel relevant to AIS;

- to ENAV on Maritime Service Portfolios (MSPs) with regards to draft IALA Guideline Maritime Service Portfolios: Digitising Maritime Services and the draft templates of categories and attributes on MSP1 (Information Service), MSP2 (Navigational Assistance Service) and MSP3 (Traffic Organisation Service);

- to ARM on mobile AtoN's (MAtoN);

- to PAP/DWG regarding IALA Dictionary Definitions;

- to PAP and Secretariat on the Committees concerns with regards to the proposed new IALA Standards.

A liaison note to the Australian Maritime Safety Agency (AMSA) on IALA Recommendation V-103 to reply on an input for VTS43 was prepared.

Participants reiterated their concern over IALA's proposed policy to remove definitions from Recommendations and Guidelines. The Committee is of the view that this will impact significantly on the readability and understanding of the documents, particularly where reference to definitions was required and the dictionary was not readily available (eg. no internet access, internet outage, etc).

The Committee strongly suggests that definitions be retained in Recommendations and Guidelines and the IALA Dictionary simply used to provide a "master list" of all IALA definitions.

The first draft of the new Work Programme for the Committee (2018-2022) was compiled and reviewed. It will be forwarded to VTS44 for further completion.

Overall status of the VTS Committee 2014-2018 Work Programme after VTS43:

Task	Start Session	Planned End Session	Revised End Session	Progress Indicator			Status Overview
				Green	**Yellow**	**Red**	
TD#1 – Operations							
1.1.1. Produce a Guideline on the use of decision support tools in VTS	38	39	38	☒	☒	☐	**Completed Approved at C59**
1.1.2. Update the VTS Manual	38	41		☒	☐	☐	**Completed VTS41 Approved at C62**
1.1.3. Produce a Guideline on marine casualty incident reporting and recording, including near miss situations as it relates to VTS	38	42		☒	☐	☐	Commenced VTS38 **Completed VTS42 Approved at C63**
1.1.4. Produce a Guideline on Maritime Service Portfolios for VTS	40	44		☐	☐	☒	Commenced VTS40
1.1.5. Produce a Guideline on Preparing for IMO Member State Audit Scheme (IMSAS) as it relates to VTS	38	40		☒	☐	☐	**Completed Approved at C61**
1.1.6. Produce a Guideline on ~~Measures to Evaluate the Effectiveness of a VTS~~ for setting and achieving VTS objectives	42	44		☒	☐	☐	Commenced VTS42 Name change VTS43
1.2.1. Produce a Guideline on public and media relations in special / defined circumstances	43	44		☐	☐	☒	removed
1.3.1. Produce a Recommendation / Guideline on VTS Communications	39	44		☐	☐	☒	Commenced VTS39
1.4.1. Develop an "IALA VTS Strategy Paper" with regards to the delivery of VTS in a rapidly changing world and the possible implications for IMO Resolution A.857(20) Guidelines for Vessel Traffic Services	38	40	39	☒	☐	☐	**Completed Approved at C60**
1.4.2. Review/update/provide input to IMO on Resolution A.857(20) Guidelines for VTS	41	44		☐	☐	☒	Commenced at VTS39
1.4.3. Develop and conduct a global VTS Questionnaire	38	41		☒	☐	☐	**Completed** released on IALA Website (8 Aug-16)
1.4.4. Produce a Guideline on preparing for Zero Accident Campaign	38			☐	☒	☐	On hold pending IMO response
TD#2 – Technology							
2.1.1. Produce a Recommendation on the portrayal of VTS information and data	41	44		☐	☒	☐	Commenced VTS41
2.2.1. Develop Guidance on the technical acceptance of a VTS system	39	44		☐	☒	☐	Commenced VTS39
2.2.2. Review V-128 – Operational and Technical Performance Requirements for VTS Equipment:	38	44	39	☒	☐	☐	**Completed Approved at C60**
2.3.1. Provide a Guideline on the technical ~~interface between VTS systems and the systems of other stakeholders~~ aspects of VTS information exchange between VTS and allied or other services	41	44		☐	☒	☐	Name change VTS43
TD#3 –Training							
3.1.1. Develop a Model Course on Revalidation Process for VTS Qualification and Certification	38	41		☒	☐	☐	**Completed Approved at C62**
3.1.2. Produce a VTS Training Manual to complement the V-103 and its model courses	40	44		☐	☐	☒	Commenced VTS40
3.1.3 Review and update V-103 on the Standards for Training and Certification of VTS Personnel and other IALA guidance to reflect the introduction of V-103/5	42	44		☒	☐	☐	Completed VTS43
3.3.1. Develop guidance on human factors and ergonomics in VTS	38	43		☐	☐	☒	Commenced VTS38
3.4.1. Develop a Guideline on VTS Awareness for Navigating Officers	43	44		☐	☐	☒	

Table of Contents

Report of the 43rd Session of the IALA
Vessel Traffic Services (VTS) Committee

1. INTRODUCTION

The 43rd meeting of the VTS Committee was held from 20 to 24 March 2017 at IALA with Tuncay Çehreli as Chair and Neil Trainor as Vice Chair. The Secretary for the meeting was Wim van der Heijden.

78 Delegates from 29 countries and 3 Sister organisations participated in VTS43; 22 for the first time. There was 1 observer.
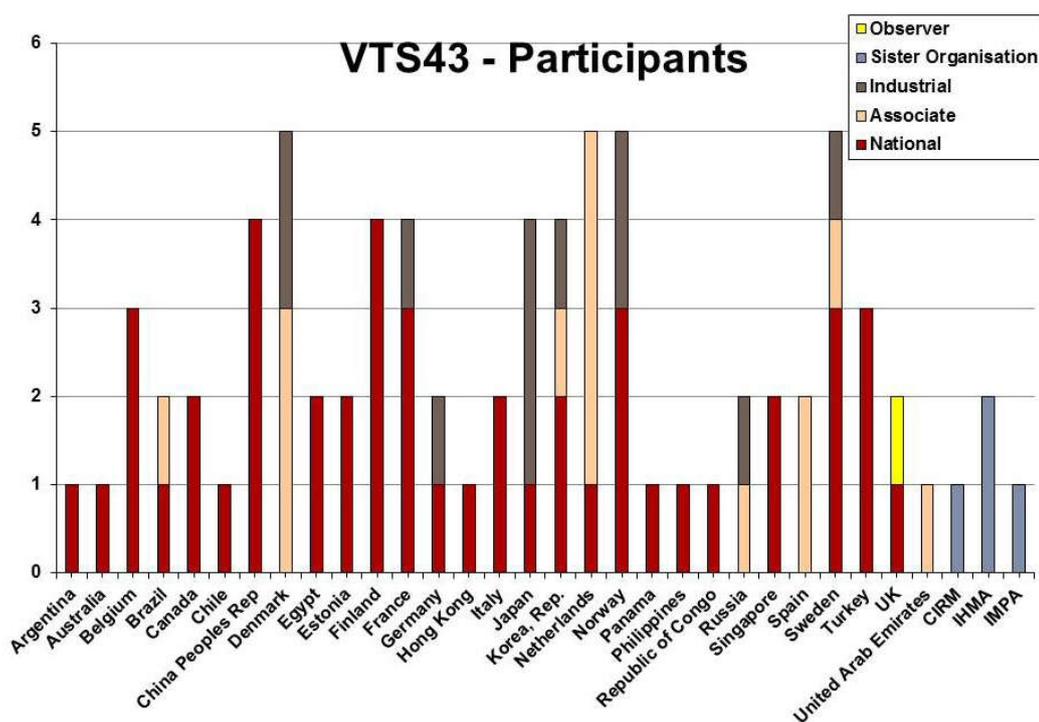
The Chair welcomed all participants to VTS43 in particular those returning after some absence and the delegates participating for the first time.

1.1 Administrative announcements

The Secretary informed that the safety information is available in the VTS43 document section (VTS43-0.2 General information) on the IALA website and advised to read the safety instructions carefully.

He informed shortly about WiFi access, Fileshare facility and the new printing facilities.

1.2   Welcome from IALA

Marie-Helene Grillet apologised the Secretary-General and the Deputy Secretary-General both abroad for other meetings. She informed about the IALA Strategic Vision 2014-2026 for a longer time and the upcoming next working period based on the short term Strategic Vision for 2018-2022. In parallel a new Strategy document will be developed and discussed during the next PAP meeting. Participants were informed about the Change of Status.

An update was presented in the developments in e-Navigation shore services and connectivity, VTS and autonomous ships. Finally the IALA document structure was explained. (VTS43-1.1 refers)

1.3   Approval of the agenda

The agenda was reviewed and adopted (VTS43-1.2).

1.4   Introductions and apologies

The Chair welcomed the new participants of the Committee. At that moment one apology was received from Robert Townsend, Chair of WG2. Apologies received are listed in Annex B.

1.5   Programme for the week

The Chair explained the programme for the week (VTS43-1.4) which was adopted.

2.   REVIEW OF ACTION ITEMS FROM VTS42

Input paper VTS43-2.1 refers.

2.1   Action Items – IALA Secretariat

It was noted that all IALA Secretariat actions from VTS42 had been completed.

2.2   Action Items – VTS Committee Participants

1. Action item 19 (MSP 1 (INS)). No inputs were received; input is expected during the meeting. Pieter Paap attended to three documents from the ENAV meeting (week before).

2. Action item 20 (effective communication). There is the report of the workshop on VTS communication; other input is expected during the meeting.

3. Action item 21 (V-103). Input or feedback was received from Canada and Australia.

4. Action item 22 (VTS Certification). Eight examples were received.

5. Action item 23 (VTS awareness) good inputs from Japan were received.

3.   REVIEW OF INPUT PAPERS

Input papers are numbered in line with the agenda.

The input papers were reviewed and appointed to the working groups with the following remarks:

- VTS43-3.2.8 The Chair thanked Indonesia for the perfect organisation of the workshop on VTS Communication

- VTS43-3.2.6 and VTS43-3.2.7 need no further action. Will be mentioned in the report.

- VTS43-3.2.9, VTS43-3.3.7, VTS43-3.3.9 and VTS43-3.3.10 were noted.

- VTS43-3.3.1 will be reviewed by WG1 and WG2.

- VTS43-3.3.5 and VTS43-3.3.6 will be reviewed by WG1 and WG3.

- VTS43-3.3.8 Pieter Paap clarified the document from USA. No action of VTS is required and the document was noted.

- It was remarked that the report of the joint meeting of VTS and ENAV was no input. It was made available via the File sharing facility during the meeting. (VTS-ENAV1-12).

4. REPORTS FROM OTHER BODIES

4.1 IALA Council

The Committee noted the following Council report:

- 63rd Session, IALA, December 2016, paper VTS43-4.1.1 refers.

The Chair informed briefly about the report and the VTS related issues.

4.2 IALA Policy Advisory Panel

The Committee noted the PAP32 report, paper VTS43-4.2.1 refers. The Chair briefly introduced to report and VTS related matters.

The Chair also noted the report of the Dictionary Working Group (VTS43-4.2.2) and informed that further discussion is needed in PAP.

4.3 IMO documents

As no report of the 4th session of the Sub-committee on Navigation, Communications and Search & Rescue (NCSR-4) as input was received Pieter Paap shortly briefed the Committee, highlighting two issues:

- NCSR discussed and recommended the reactivation of the IMO/IHO High-Level Data Modelling Group (HDMG) with a focus on the further development of the Maritime Service Portfolios (MSPs) under e-Navigation. The link with the VTS Committee is the development of the MSPs 1, 2 and 3. The decision for the reactivation of the HDMG has to be taken by MSC98 (May 2017). NCSR also recommended Mr. Sunbae HONG of Korea as the Chair of the HDMG.

- The results and conclusions of the IALA Workshop on VTS Communications (February 2017 in Bali) were indicated and the need for enhancement of verbal communications between shore-based stakeholders (specifically VTS) and ships.

5. REPORTS FROM RAPPORTEURS

5.1 Risk management toolbox

Rapporteur: Tuncay Çehreli

The rapporteur briefed the importance of risk assessment in terms of planning and implementing a VTS and important role of VTS in the implementation of the other risk mitigation measures such as TSS, SRS and navigational rules.

He mentioned IALA works on risk management and related matters so far and related IMO recognition by SN.1/Circ.296 in 2010. Then he provided some more information about the tools of IALA Risk Management Toolbox; IWRAP (IALA Waterway Risk Assessment Programme), PAWSA (Ports and Waterways Safety Assessment), Simulation and also SQUART (Simple Qualitative Assessment of Risk Tool) which is a new simplified qualitative tool for particularly developing countries.

He continued by providing information on the following issues:

- Training Seminar on IALA Risk Management Toolbox once a year. Last seminar was in Panama City in last November and the next will be in Xiamen, China in September this year;

- The role of ARM Committee in Risk Management related matters;

- Risk Management related IALA documents;

- ARM Committee WG3 on Risk Management and its tasks.

6. PRESENTATIONS

6.1 IALA World-Wide Academy (WWA)

Paper VTS43-6.1 (presentation) refers.

The presentation was made by Gerardine Delanoye.

The presentation covered an overview of the VTS related activities of the WWA since VTS42 and the planned activities in 2017. This includes:

- Level 1 AtoN Manager Course

- Level 1 AtoN Manager Distance Learning module 3 on Management

- Risk Management Training Seminar

- E-Navigation and GNSS Course

Finally the WWA Master Plan was presented with Strategic Vision and Goals for 2026.

6.2 PortCDM

Paper VTS43-6.2 (presentation) refers.

The presentation was made by Michael Bergmann.

In the vision for e-Navigation a close collaboration between stakeholders is required to optimize the maritime transport. PortCDM should be the connection to MSP services. The port call process is a complex sequence of activities and different in each port. By introducing standardised port call messages (S-2xx Product specification) the process can be optimized. PortCDM Council will be inaugurated soon and should establish a platform of standards and services.

6.3 Capacity building VTS Operators in ASEAN region

Paper VTS43-6.3 (presentation) refers.

The presentation was made by Eiichi Masuda.

The presentation informed about the ASEAN – Japan regional meeting on VTS Operator Training held in Tokyo, 13 – 17 February 2017. Three conclusions were presented.

6.4 Electronic QMS

Paper VTS43-6.4 (presentation) refers.

The presentation was made by Sari Talja.

The presentation gave firstly an overview of the Vessel Traffic services, the GOFREP ship reporting system, the Traffic Separation Schemes and the Safety Radio Communication systems. After that the Quality Management System (QMS) of the Finnish VTS was presented which is in accordance with the ISO 9001:2008 standard. The purpose and the structure of the QMS were explained and examples of implementation were given. The quality process is controlled by the Quality PRogramme (QPR) System. Finally the steps how the QMS was made were presented resulting in the certification.

The Chair thanked all speakers for the presentations.

7. ESTABLISH WORKING GROUPS

The Chair outlined the procedure to be followed by working groups, including the associated paperwork, after which three working groups were established and their tasks outlined. A list of working group participants is at Annex C. Because of the absence of Robert Townsend, Richard Aase will be Chair of WG2 and Dirk Eckhoff was requested as Vice Chair of WG2.

Working Group (WG)	Working Group Chair / Vice Chair
WG1 – Operations	Monica Sundklev (Chair) Jørgen Brandt Tom Southall
WG2 – Technology	Richard Aase (Chair) Dirk Eckhoff
WG3 – VTS Training	Kevin Gregory (Chair) Lilian Biber-Klever

8. WORKING GROUP 1 – TD#1 - OPERATIONS (WG1)

35 participants were involved in working with the tasks of WG 1. Five subgroups were created to consider the tasks, as follows:

8.1 Task 1.1.3 Produce a Guideline on marine casualty / incident reporting and recording, including near miss situation as it relates to VTS

This task was completed at VTS42 and approved by Council at C64.

8.2 Task 1.1.4 Produce a Guideline on Maritime Service Portfolios for VTS

The working group completed the list of categories and attributes on MSP1 (INS), MSP2 (NAS) and MSP3 (TOS).

The working group also reviewed the draft IALA Guideline Maritime Service Portfolios: Digitising Maritime Services developed by the ENAV committee and provided input for MSP's 1, 2 and 3. A liaison note to ENAV committee on this work was produced.

The work on the Guideline on Maritime Service Portfolios for VTS continued and noted that the task description needs to be reviewed.

The group noted that detailed guideline on Maritime Service Portfolios for VTS should be developed after the completion of IALA Guideline Maritime Service Portfolios: Digitising Maritime Services is finalized by ENAV and approved by Council. In order to achieve this, it is requested that the VTS committee extends the task to the next work program and approves a workshop on this task.

As a result of the work the group noted a need to work jointly with the technical working group to develop Common Maritime Data Structure (CMDS) entries for the MSP1, MSP2 and MSP3 for next Work Programme.

Action items:

*The **Committee Secretary** is requested to forward the liaison note on MSP (VTS43-12.1.16) together with the draft IALA Guideline on Maritime Service Portfolios: Digitising Maritime Services (VTS43-12.1.17) and the templates on MSP1, MSP2 and MSP3 (Annex 1-3) (VTS43-12.18, VTS43-12.1.19, VTS43-12.1.20) to ENAV21.*

*The **VTS Committee** is requested to consider a joint work item for working groups 1 and 2 to develop the CMDS entries for the MSP1, MSP2 and MSP3 for next Work Programme.*

*The **VTS Committee** is requested to consider the extension of the task into the Work Programme 2018-2022.*

*The **VTS Committee** is requested to consider a workshop to develop the Guideline on Maritime Service Portfolios for VTS during the Work Programme 2018-2022.*

*The **Committee Secretary** is requested to forward draft Guideline on Maritime Service Portfolios for VTS (VTS43-12.2.6) and the revised templates on MSP1, MSP2 and MSP3 (VTS43-12.2.7, VTS43-12.2.8, VTS43-12.2.9) as working documents to VTS44.*

*The **Committee Participants** are requested to review and provide comments on the draft templates on MSP1-3 before VTS44.*

8.3 Task 1.1.6 Produce a Guideline on Measures to Evaluate the Effectiveness of a VTS

The working group made good progress focusing on developing the wording in different sections of the working paper and the information of the annexes.

When developing the guideline, the group discussed the title of the task and it has been noted that there are several interpretations of what effectiveness means and how this may be measured.
In order to make the task as well as the guideline clearer the working group therefore suggests changing the title of the task from "Producing a Guideline on Measures to evaluate the Effectiveness of a VTS" to "Produce a Guideline for setting and achieving VTS objectives".

Action item:

*The **Committee Secretary** is requested to forward the proposed change of the task title to Council for their approval (VTS43-12.1.15).*

*The **Committee Secretary** is requested to forward the draft Guideline on Effectiveness (VTS43-12.2.10) as a working paper to VTS44.*

8.4 Task 1.2.1 Produce a Guideline on public and media relations in special/defined circumstances.

The Working Group has considered this task throughout the 2014-2018 Work Programme and has identified that there is no imminent need for such a Guideline. It is the view of WG1 that adequate guidance on this matter is already available in the VTS Manual 2016 (Chapter 17 Public Information).

Furthermore, it was identified that many countries and authorities have policies and / or legislation in place regarding to the release of information and data as well as public and media relations.

Action item:

*The **Committee Secretary** is requested to forward the liaison note (VTS43-12.1.13) requesting that Tasks 1.2.1 Produce a Guideline on public and media relations in special/defined circumstances be removed from the 2014-2018 Work Programme to Council for approval.*

8.5 Task 1.3.1 Produce a Recommendation / Guideline on VTS Communications

The VTS Communications sub group had a successful meeting. Positive progress was made with the initial draft of a Recommendation following input from AMSA and we extend our thanks to them for that work. The group also wishes to thank all participants of the IALA Workshop on VTS Communications in Bali. We received workshop presentations and debriefs from Lt. Michele Landi (Italian Coastguard), Dr. Seung Hee Choi (Republic of Korea) and Lilian Biber-Klever (NNVO) and their findings were considered for inclusion in the Guideline. Substantive progress on the development of a Guideline on VTS Communications has been made. Work will continue at VTS 44.

A correspondence group between VTS 43 and 44 will be formed to progress the task further. Committee members wishing to join the correspondence group should contact Thomas Southall by 3rd April 2017.

Committee members are requested to supply input of any relevant guidance, advice or documentation regarding effective voice communication to be sent to Thomas Southall. This documentation does not necessarily have to be in English.

Action items:

The **Committee Secretary** is requested to forward the working documents on VTS Communication (VTS43-12.2.11 and VTS43-12.2.12) to VTS 44 for further review and consideration.

The **Committee Participants** wishing to join the correspondence group are requested to contact Thomas Southall (tomsouthall9@hotmail.com) by the 3rd April 2017.

The **Committee Participants** are requested to send any relevant guidance, advice or documentation on effective communication to Thomas Southall (tomsouthall9@hotmail.com), it does not necessarily have to be in English.

8.6   Task 1.4.2 Review/Update/Provide input to IMO on Resolution A.857(20) Guidelines for VTS

A sub-group was formed at the commencement of VTS43 to commence drafting a submission to the IMO requesting a review of the Resolution as an unplanned output based on:

- input paper 8.6.3 - Proposal for a new unplanned output to update Resolution A.857(20) Guidelines for Vessel Traffic Services, and
- input paper 8.6.1 - Compelling need for an update of IMO Resolution A.857(20) Guidelines for Vessel Traffic Services.

Significant progress on this Task was achieved with a draft proposal to the IMO for a new output to update the Resolution being completed (output VTS43-12.1.12). Participants agreed that the draft submission be.

- Forwarded to Council for approval as stated in the IALA VTS Strategy Paper, and
- After approval, the Secretariat is requested to forward the draft document to IALA national members for their consideration as the basis for sponsoring a submission to the IMO.

Action items:

The **Committee Secretary** is requested to forward the liaison note on "Review of IMO Resolution A.857(20) Guidelines for Vessel Traffic Services'" (VTS43-12.1.7) and the draft proposal to the IMO for a new output to update the Resolution being completed (VTS43-12.1.12) to IALA Council for approval.

After Council approval, the **Secretariat** is requested to forward the draft proposal to the IMO for a new output to update the Resolution being completed (VTS43-12.1.12) to IALA National Members for their consideration as the basis for sponsoring a submission to the IMO.

Miscellaneous

8.7   IALA Dictionary update

WG1 and WG2 considered the "DWG liaison note to VTS Committee re Dictionary definitions" (VTS43-4.2.2) and could not find any reason for revising the proposed definitions. Recalling paragraph 8.2 of Council 62 report in June 2016, which states "The Council delegated approval authority of new terms and definition and revised definitions to the PAP Dictionary Working Group, with the exception of terms and definitions already approved by the Council as part of existing official IALA documents", the VTS Committee emphasize that the subject definitions are already approved by Council in Guideline 1110 and Guideline 1111 respectively.

It is the view of the group that the definitions remain unchanged until these Guidelines are revised.

A liaison note to PAP DWG was prepared together with WG2, see action item under section 9.6 for WG2.

8.8   Liaison note from ENAV committee regarding e-navigation roadmap

WG1 noted the input paper VTS43-3.3.1 on modification in the e-navigation roadmap concerning the timeframe for theme No 3, second bullet. However, the VTS Committee will continue with task 1.4.2 as described in the VTS Strategy paper which is already approved by the Council.

No further action is needed.

8.9   Liaison note from ARM committee regarding Mobile AtoN (MAtoN)

The working group noted the input papers VTS43-3.3.2/VTS43-3.3.3/VTS43-3.3.4 on draft documents on MAtoN. The group considered the new concept on MAtoN and related draft Recommendation and Guideline, which the group finds an important task to fulfil.

As a general comment and in the light of the draft documents sent to VTS 43, it is considered that the guideline would benefit from further clarifications and explanations. The group would also like to recommend that where and when a MAtoN is deployed in a VTS area, the relevant VTS Centre be formally advised.

Action item:

*The **Committee Secretary** is requested to forward the liaison note (VTS43-12.1.14) to ARM.*

8.10   IALA-IHO Interaction on the IMO Maritime Service Portfolio Program

WG1 didn't consider VTS43-3.3.8 on an IALA/IHO interaction on the IMO Maritime Service Portfolio Program. The document originated from USA but was an input paper from ENAV (ENAV20-12.2) with no actions requested from the VTS Committee.

8.11   Executive summary International Workshop on Next Generation VTS

WG1 noted the input paper VTS43-3.2.9 on the summary report from the International Workshop on Next Generation VTS which were held in Tokyo, Japan in January 2017.

9.   WORKING GROUP 2 – TD#2 - TECHNOLOGY (WG2)

Introduction

21 people joined the Working Group.

Tasks were presented as follows:

The WG2 had 9 papers to review, update, note and comment upon.

- VTS43-3.3.1   Liaison note to VTS Cttee on e-Navigation road map. Note
- VTS43-3.3.11   Liaison Note - VTS plenary. Liaison Note
- VTS43-4.2.2   DWG liaison note to VTS43 re Dictionary definitions. Liaison Note
- VTS43-9.1.1   Produce a Rec. on Portrayal of VTS Information and Data. Continue
- VTS43-9.1.2   Produce a Rec. on Portrayal of VTS Information and Data
- VTS43-9.2.1   Produce a Guideline on Acceptance of VTS Systems. Continue
- VTS43-9.2.2   Produce a Guideline on Acceptance of VTS Systems
- VTS43-9.3.1   Produce a Guideline on the technical interface between VTS systems and Systems of other stakeholder. Continue
- VTS43-9.3.2   Produce a Guideline on the technical interface between VTS systems and Systems of other stakeholder

After presenting these tasks we discussed our approach to the management of these tasks and agreed a plan for the week. Essentially, three sub-groups were created along similar lines to VTS41 and VTS42.

9.1   Task 2.1.1 Produce a Recommendation on Portrayal of VTS Information and Data

Excellent progress was made during the course of the week. The task is scheduled for completion at VTS44. The output is a working document which should be referred to VTS44 as an input paper.

Considering the new IALA documentation structure, it is likely that an associated Guideline will need to be produced.

Action Items:

The **Committee Secretary** *is requested to forward the working document VTS43-12.2.1 on portrayal to VTS44.*

The **VTS Committee** *is requested to intersessional comment on the working paper on portrayal with the view to be finalized by the committee at VTS44.*

9.2 Task 2.2.1 Produce a Guideline on Acceptance of VTS Systems

Good progress was made on this task. The output is a working document which should be referred to VTS44 as an input paper. The task is scheduled for completion at VTS44, however this is likely to go into the next working period.

Action Item:

The **Committee Secretary** *is requested to forward the working document VTS43-12.2.2 on acceptance VTS systems to VTS44.*

9.3 Task 2.3.1 Produce a Guideline on the technical interface between VTS systems and the systems of other stakeholders

The substance of the document progressed well and the output is a working document which should be referred to VTS44 as an input paper. The major part of the document is completed. With a view to complete the document at VTS44

Action Item:

The **Committee Secretary** *is requested to forward the working document VTS43-12.2.3 on technical interface with other stakeholders to VTS44.*

The **Committee Secretary** *is requested to forward liaison note VTS43-12.1.1 on name change of the guideline to Council*

Committee Participants *are requested to intersessional comment on the working paper on technical interface with the view to be finalized by the committee at VTS44.*

9.4 VTS43.3.3.1 Liaison note to VTS Cttee on e-Navigation road map action number 3

The work group 2 see no need to make a separate format for electronic manuals for VTS equipment, as this follow the industry formats for documentation. All equipment has electronic readable manuals. Action noted.

9.5 VTS43-3.3.11 Liaison Note on introduction of VDES

WG2 cooperated with WG3 to produce this liaison note. The action requested from WG2 in the VTS Committee is of significant work, as the documents concerned are comprehensive with a huge degree on details. VTS Committee will consider to include these tasks in work programme for 2018-2022. WG3 agreed to withdraw Guideline 1032. VTS Committee will seek advice from Joint ENAV / VTS workgroup for coordination of tasks between the two committees.

Action Item:

The **Committee Secretary** *is requested to forward the liaison note VTS43-12.1.6 on the introduction of VDES to ENAV Committee, Joint ENAV / VTS Workgroup and Secretariat.*

9.6 Reply liaison note to DWG re dictionary

WG2 cooperated with WG1 to produce the liaison note. The VTS Committee considered VTS43-4.2.2, the DWG liaison note to VTS Committee re Dictionary definition and could not find any compelling need to revise the

proposed definitions. In accordance with council decision, definitions in previously council approved documents are not to be re-approved by DWG.

Action Item:

*The **Committee Secretary** is requested to forward the liaison note VTS43-12.1.3 Reply DWG liaison note to VTS43 re Dictionary definitions to DWG*

10. WORKING GROUP 3 – TD#3 – VTS TRAINING (WG3)

Qualification, training, and certification of VTS personnel

10.1   Task 3.1.3 – Review and update IALA Recommendation V-103 on the Standards for Training and Certification of VTS Personnel and other guidance

Work on the review of IALA Recommendation V-103 with respect to incorporating Model Course V-103/5, making modifications to some definitions and incorporating changes made in other IALA documentation related to VTS training (specifically, Guideline 1014 and 1103) was completed.

The Working Group considered input paper VTS43-10.2.10 from the Australian Maritime Safety Authority. The paper raised three specific points with respect to the proposed revisions to IALA Recommendation V-103. A Liaison Note was prepared in response to the suggestions raised. The intersessional comments suggested by Canada, with respect to the recognition of alternative training and courses, were also considered by the Working Group.

The Working Group also considered the proposals made within various input documents to split IALA Recommendation V-103 and to create a new supporting Guideline. The Working Group considered that a new work programme item for the 2018-2022 period should be prepared to enable the Recommendation to be split and reviewed/revised as appropriate.

Work on updating the IMO Maritime Safety Committee Circular (MSC/Circ.1065) with respect to incorporating IALA Model Course V-103/5 was completed.

Action items:

*The **Committee Secretary** is requested to forward the cover note and the revised IALA Recommendation V-103 (VTS43-12.1.8 and VTS43-12.1.9) to Council for approval.*

*The **Committee Secretary** is requested to forward the Liaison Note on V-103 (VTS43-12.1.10) to the Australian Maritime Safety Authority.*

*The **Committee Secretary** is requested to forward the cover note and the draft IMO MSC Input Paper containing revisions to MSC/Circ.1065 (VTS43-12.1.4 and VTS43-12.1.5) to Council for approval and after approval as submission to the IMO.*

10.2   Task 3.1.2 Produce a VTS Training Manual to complement the V-103 and its model courses

The Working Group did not progress the work programme item related to the VTS Training Manual due to the workload related to other matters.

10.3   Input paper VTS Manager training need (VTS42-10.2.2)

The Working Group further considered the input paper concerning VTS Manager training and the management of a VTS and commenced the preparation of a work programme item proposal for the 2018-2022 period.

The Working Group examined the potential scope of a new work programme item and concluded that the item should be directed at the management of a VTS as opposed to the specific VTS Manager role. This reflects that not all VTS Authorities have dedicated VTS Manager positions but all VTS Authorities are required to have effective VTS Management activities and processes in place. Working Group 3 also considered that this new work programme item would benefit from collaboration with Working Group 1.

10.4 Continued applicability of IALA Guideline 1032 on aspects of training of VTS personnel relevant to AIS

The Working Group considered the Liaison Note submitted by the ENAV Committee VTS43-3.3.11. IALA Guideline 1032 was reviewed and the Working Group noted that it had not been updated since 2005. The Working Group concluded that the Guideline may be recommended for withdrawal as the information contained within was either sufficiently promulgated, obsolete or incorporated into IALA Model Course V-103/1 and the VTS Manual.

10.5 Review of draft IALA Standard 1050 – Training and Certification

The Working Group reviewed the draft IALA Standards, specifically 1050 on Training and Certification, these comments are applicable to the majority of draft IALA standards that were offered for comment.

The Working Group noted that Model Courses were not referenced in the introduction section of the Standard – a clarification on their status with respect to the proposed standards would be beneficial.

The application of the draft Standard also seemed to be restricted to marine aids to navigation authorities with limited reference to the provision of Vessel Traffic Services. The Working Group noted that for some national members the marine aids to navigation authority did not have responsibility for VTS.

Section 2 of the draft standard makes reference to two goals of the IALA Strategic Vision whereas only one is referenced. This section would benefit from review to make the references to the Strategic Vision clearer.

Some concerns were raised in the Working Group with respect to section 5 of the draft standard with respect to the use of the terms 'shall' and 'should' which may cause confusion to an international readership.

The scope of the of the draft standard, specifically the four bullet points contained within section 4, may benefit from review. In particular, consideration may be given to merging or amending some of the bullet points and ascertaining whether ergonomics is relevant in a standard related to training and certification.

The process for the approval of these draft standards and the longer term amendment and review of them also needs to be clarified.

10.6 Review of input paper VTS43-3.2.3 reformatting of VTS model courses

The Working Group reviewed input paper VTS43-3.2.3 related to the reformatting of the VTS model courses. The Working Group considered the request for advice and prepared a Liaison Note suggesting two ways to proceed with the reformatting of the VTS model courses into the new document style.

Reviewing the proposed new template for IALA Model Course V-103/1, it was noted that the Dean of the World Wide Academy is nominated as a point of contact. This led to a lengthy discussion as to the ownership of IALA documents – and specifically the role of the World Wide Academy in their preparation and approval and in the response to any queries that may be received from those implementing these documents.

*The **Committee Secretary** is requested to forward the Liaison Note (VTS43-12.1.11) to the IALA Secretariat.*

Accreditation and approval process for VTS training

10.7 Input paper VTS40-10.1.3 (now on hold paper 1.4 VTS Certification)

The Working Group briefly revisited this paper and reviewed the input provided by Committee Participants. Further work on VTS Certification will be proposed for inclusion on the 2018-2022 work programme of the VTS Committee.

Human Factors and Ergonomics

10.8 Task 3.3.1 Develop guidance on Human Factors and Ergonomics in VTS

The Working Group did not progress the work programme item related to Human Factors and Ergonomics in VTS due to the workload related to other matters.

Action item:

*The **Committee Secretary** is requested to forward working document on Human Factors (VTS43-12.2.4) as working paper for VTS44.*

VTS training for navigating officers

10.9   Task 3.4.1 Develop a Guideline on VTS Awareness for Navigating Officers

Work commenced on the development of a Guideline on VTS Awareness for Navigating Officers in terms of the preparation of the scope for the Guideline.

Action item:

*The **Committee Secretary** is requested to forward working document on VTS Awareness for Navigating Officers (VTS43-12.2.5) as working paper for VTS44*

11.   WORK PROGRAMME (2014 – 2018)

11.1   Current Work Programme (2014 – 2018)

Input paper VTS43-11.1 refers.

The overall status report of the current Work Programme was reviewed and updated during the meeting. See table on next page.

11.2   Future Work Programme (2018 – 2022)

The first draft of the new Work Programme 2018 – 2022 was compiled, presented and discussed. Participants are invited to review the proposed work items for further discussion.

Action item

*The **Committee Secretary** is requested to forward the draft future Work Programme (2018 – 2022) (VTS43-11.2.1) and the related new Task Register as working documents to VTS44 (VTS43-11.2.2) for completion.*

Task	Start Session	Planned End Session	Revised End Session	Progress Indicator			Status Overview
				Green	**Yellow**	**Red**	
TD#1 – Operations							
1.1.1. Produce a Guideline on the use of decision support tools in VTS	38	39	38	☒	☒	☐	**Completed Approved at C59**
1.1.2. Update the VTS Manual	38	41		☒	☐	☐	**Completed VTS41 Approved at C62**
1.1.3. Produce a Guideline on marine casualty incident reporting and recording, including near miss situations as it relates to VTS	38	42		☒	☐	☐	Commenced VTS38 **Completed VTS42 Approved at C63**
1.1.4. Produce a Guideline on Maritime Service Portfolios for VTS	40	44		☐	☐	☒	Commenced VTS40
1.1.5. Produce a Guideline on Preparing for IMO Member State Audit Scheme (IMSAS) as it relates to VTS	38	40		☒	☐	☐	**Completed Approved at C61**
1.1.6. Produce a Guideline on ~~Measures to Evaluate the Effectiveness of a VTS~~ for setting and achieving VTS objectives	42	44		☒	☐	☐	Commenced VTS42 Name change VTS43
1.2.1. Produce a Guideline on public and media relations in special / defined circumstances	43	44		☐	☐	☒	removed
1.3.1. Produce a Recommendation / Guideline on VTS Communications	39	44		☐	☐	☒	Commenced VTS39
1.4.1. Develop an "IALA VTS Strategy Paper" with regards to the delivery of VTS in a rapidly changing world and the possible implications for IMO Resolution A.857(20) Guidelines for Vessel Traffic Services	38	40	39	☒	☐	☐	**Completed Approved at C60**
1.4.2. Review/update/provide input to IMO on Resolution A.857(20) Guidelines for VTS	41	44		☐	☐	☒	Commenced at VTS39
1.4.3. Develop and conduct a global VTS Questionnaire	38	41		☒	☐	☐	**Completed** released on IALA Website (8 Aug-16)
1.4.4. Produce a Guideline on preparing for Zero Accident Campaign	38			☐	☒	☐	On hold pending IMO response
TD#2 – Technology							
2.1.1. Produce a Recommendation on the portrayal of VTS information and data	41	44		☐	☒	☐	Commenced VTS41
2.2.1. Develop Guidance on the technical acceptance of a VTS system	39	44		☐	☒	☐	Commenced VTS39
2.2.2. Review V-128 – Operational and Technical Performance Requirements for VTS Equipment:	38	44	39	☒	☐	☐	**Completed Approved at C60**
2.3.1. Provide a Guideline on the technical ~~interface between VTS systems and the systems of other stakeholders~~ aspects of VTS information exchange between VTS and allied or other services	41	44		☐	☒	☐	Name change VTS43
TD#3 –Training							
3.1.1. Develop a Model Course on Revalidation Process for VTS Qualification and Certification	38	41		☒	☐	☐	**Completed Approved at C62**
3.1.2. Produce a VTS Training Manual to complement the V-103 and its model courses	40	44		☐	☐	☒	Commenced VTS40
3.1.3 Review and update V-103 on the Standards for Training and Certification of VTS Personnel and other IALA guidance to reflect the introduction of V-103/5	42	44		☒	☐	☐	Completed VTS43
3.3.1. Develop guidance on human factors and ergonomics in VTS	38	43		☐	☐	☒	Commenced VTS38
3.4.1. Develop a Guideline on VTS Awareness for Navigating Officers	43	44		☐	☐	☒	

12. REVIEW OF OUTPUT AND WORKING PAPERS

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

The output documents listed at Annex E were reviewed and agreed.

The Committee Secretary was requested to forward the output documents, as indicated earlier in the report.

The Chair then thanked the Chairs, Vice Chairs and members of the working groups for all their efforts during the week.

13. ANY OTHER BUSINESS

13.1 19th IALA Conference 2018

Seunghee Choi presented the 19th IALA Conference in Incheon, Republic of Korea which will be from 27 May till 2 June 2018. Presentation VTS43-13.1 refers. For further information:

www.Iala2018korea.org

Participants are reminded that the deadline for submission of abstracts of papers to be presented during the 19th IALA Conference is 31 March 2017. See for details the IALA web-site.

14. REVIEW OF SESSION REPORT

The report of the meeting (VTS43-14) was reviewed and approved by the Committee on the 24th March 2017. Deadline for comments and corrections is 10 April 2017.

Action Item

The **Committee Secretary** *is requested to forward the report of VTS43 (VTS43-14) after completion (deadline 10 April 2017) to the IALA Council, to note.*

15. DATE AND VENUE OF NEXT MEETINGS

VTS44 will be from 25 - 29 September 2017 at the IALA HQ.

19th IALA Conference will be from 28 May till 2 June 2018, Incheon, Republic of Korea.

16. CLOSING OF THE MEETING

The Chair thanked again all Committee participants for all the hard work done during the meeting.

He then asked if there were any final comments that members wished to make; there were none, at which he hoped to meet all during the VTS44. He wished everyone a pleasant stay and safe journey home.

17. LIST OF ANNEXES

1 Agenda

A copy of the agenda is at Annex A.

2 Participants

A list of participants is at Annex B.

3 Working Group Participants

A list of working group participants is at Annex C.

4 Input Papers

A list of input papers is at Annex D.

5   Output and Working papers

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

6   Action Items

A list of action items is at Annex F.

43rd Meeting of the Vessel Traffic Services Committee (VTS43)

The 43rd meeting of the **VTS Committee** will be held from 20 – 24 March 2017, at IALA, St. Germain en Laye, France

The opening plenary will commence at 1300 on Monday 20 March 2017, and the closing plenary will end at approximately 1300 on Friday 24 March.

Committee Chair, Vice-Chair and Working Group Chairpersons are requested to meet at 0900 on Monday 20 March.

Agenda

1.   Introduction

    1.1.   Administration and Safety Briefing

    1.2.   Approval of agenda

    1.3.   Apologies and introductions

    1.4.   Programme for the week

2.   Review of action items from last meeting

    2.1.   Review of action items from VTS42

    2.2.   Final Report from VTS42 - for reference

3.   Review of input papers

    3.1.   IALA Standards

    3.2.   VTS Committee related input

    3.3.   Input from other Committees

4.   Reports from other bodies:

    4.1.   IALA Council – 63rd Session, December 2016

    4.2.   Policy Advisory Panel (PAP) - PAP32, October 2016

    4.3.   IMO

5.   Reports from rapporteurs

    -    Risk Management Toolbox   Tuncay Çehreli

6.   Presentations (15 minutes)

    –   Update WWA activities   Gerardine Delanoye

    –   PortCDM   Michael Bergmann

    –   Capacity building VTS Operators in ASEAN region   Eiichi Masuda

    –   Electronic QMS   Thomas Erlund

7.   Establish Working Groups

8.   WG1 - TD# 1 – Operations

  8.1.   Produce a Guideline on Marine Casualty Incident Reporting and Recording, including Near Miss Situations and it relates to VTS (Task 1.1.3)

  8.2.   Produce a Guideline on Maritime Service Portfolios for VTS (Task 1.1.4)

  8.3.   Produce a Guideline on Measures to Evaluate the Effectiveness of a VTS (Task 1.1.6)

  8.4.   Produce a Guideline on Public and Media Relations in special / defined circumstances (Task 1.2.1)

  8.5.   Produce a Recommendation / Guideline on VTS Communications (Task 1.3.1)

  8.6.   Review / update input to IMO on Resolution A.857(20) Guidelines for VTS (Task 1.4.2)

9.   WG2 - TD# 2 – Technology

  9.1.   Produce a Recommendation on the Portrayal of VTS Information and Data (Task 2.1.1)

  9.2.   Develop Guidance on the Technical Acceptance of a VTS System (Task 2.2.1)

  9.3.   Provide a Guideline on the Technical Interface between VTS Systems and the systems of other Stakeholders (Task 2.3.1)

10.   WG3 - TD# 3 – VTS Training

  10.1.   Produce a VTS Training Manual to complement the V-103 and its model courses (Task 3.1.2)

  10.2.   Review and update V-103 on the Standards for Training and Certification of VTS Personnel and other IALA guidance to reflect the introduction of V-103/5 (Task 3.1.3)

  10.3.   Develop guidance on human factors and ergonomics in VTS (Task 3.3.1)

  10.4.   Develop a Guideline on VTS Awareness for Navigating Officers (Task 3.4.1)

11.   Work Programme

  11.1.   Current Work Programme (2014 – 2018)

  11.2.   Future Work Programme (2018 - 2022)

12.   Review of output and working papers

  12.1.   Output papers

  12.2.   Working papers

13.   Any Other Business

14.   Review of session report

15.   Date and venue of next meeting

16.   Close of the meeting

ANNEX B	**VTS43 PARTICIPANTS**

Argentina   **Prefectura Naval Argentina**

Lt Cdr Sergio Gabriel CERNADAS

Phone	+54 11 4318 76 11 ext 2335
e-mail	kstm@prefectural.gov.ar

Australia   **Australian Maritime Safety Authority**

Mr Neil TRAINOR

Phone	+61 7 3001 6822
Mobile phone	+61 (0)408 559 849
e-mail	neil.trainor@amsa.gov.au
e-mail (alternative)	neil.trainor@hotmail.com

Belgium   **Shipping Assistance Division**

Ms Els BOGAERT

Phone	+32 59 255 447
Mobile phone	+32 474 23 68 25
e-mail	els.bogaert@mow.vlaanderen.be

Shipping Assistance Division

Mr Stefaan PRIEM

Phone	+32 059 255 457
Mobile phone	+32 499 94 93 81
e-mail	stefaan.priem@mow.vlaanderen.be

Shipping Assistance Division

Mr Wim SMETS

Phone	+31 118 424 779
e-mail	wim.smets@schelderadar.net

Brazil   **Admiral Moraes Rego Center**

Captain Antonio Carlos OLIVEIRA

Phone	+55 21 2189 3527
Mobile phone	+55 21 97403 5755
e-mail	antonio.carlos@camr.mar.mil.br
e-mail (alternative)	acarlosoliv@yahoo.com.br

CONAPRA

Mr Lima PORTHOS

Phone	+55 21 251 644 79
Mobile phone	+55 21 97 1137 622
e-mail	diretoriatecnica@conapra.org.br

Canada	**Canadian Coast Guard**	
	Mr Gaëtan BOUDREAULT	
	Phone	+1 613 991 1312
	Mobile phone	+1 613 229 3284
	e-mail	gaetan.boudreault@dfo-mpo.gc.ca

Canadian Coast Guard

Mr Serge DESCHAMPS

	Phone	+1 418 648 5424
	e-mail	serge.deschamps@dfo-mpo.gc.ca

Chile	**Armada de Chile - Directemar**	
	Captain Italo SOLARI AGUILAR	
	Phone	+56 32 220 84 02
	Mobile phone	+56 9780 70813
	e-mail	isolari@directemar.cl
	e-mail (alternative)	italosolari@gmail.com

CIRM	**CIRM**	
	Mr Michael BERGMANN	
	Phone	+49 6 186 912727
	Mobile phone	+49 172 753 6379
	e-mail	michael.bergmann@bergmann-marine.com
	e-mail (alternative)	mbergmann@germanshoe.com

Denmark	**Danish Defence Commande, Navy Staff**	
	Mr Niels Jacob MYGIND	
	Phone	+45 7285 0306
	Mobile phone	+45 5145 0414
	e-mail	njmyg@mil.dk

Great Belt VTS

Captain Jørgen BRANDT

	Phone	+ 45 5830 4980
	Mobile phone	+45 4015 2918
	e-mail	soe-vtss100@mil.dk
	e-mail (alternative)	boss@mil.dk

Royal Danish Navy

Captain Per Baek HANSEN

	Mobile phone	+45 22 91 06 29
	e-mail	pbh@mil.dk
	e-mail (alternative)	soe-vtso100@mil.dk

Terma A/S

Mr. Jens Christian PEDERSEN

Phone   + 45 8743 6242
Mobile phone   +45 2043 5357
e-mail   jcp@terma.com

Terma A/S

Dr Annette SVENDSEN

e-mail   ansn@terma.com

Egypt   **Egyptian Authority For Maritime Safety**

Mr Wael ALY

Phone   +002 034 814 754
Mobile phone   +002 010 6200 2787
e-mail   vts.sar@eams.gov.eg

Egyptian Authority for Maritime Safety

Capt Khaled Fouad ELSAYED

e-mail   VTS.SAR@EAMS.GOV.EG

Estonia   **Estonian Maritime Administration**

Mr Jyri EHANDI

Phone   +372 6205 669
Mobile phone   +372 56 229 188
e-mail   jyri.ehandi@vta.ee

Estonian Maritime Administration

Mr Are PIEL

Phone   +372 6205 760
Mobile phone   +372 50 44704
e-mail   are.piel@vta.ee

Finland   **Finnish Transport Agency**

Mr Thomas ERLUND

Phone   +358 40 829 9877
Mobile phone   +358 40 829 9877
e-mail   thomas.erlund@fta.fi

Finnish Transport Agency

Mr Mika HALTTUNEN

Mobile phone   +358 40 571 4288
e-mail   mika.halttunen@fta.fi

Finnish Transport Agency

Mr Tuomas MARTIKAINEN

Mobile phone	+358 40 829 9895
e-mail	tuomas.martikainen@liikennevirasto.fi

Finnish Transport Agency

Ms Sari TALJA

Phone	+358 295 34 3278
Mobile phone	+358 40061 2869
e-mail	sari.talja@fta.fi

France   **CEREMA**

Mr Bruno NASONE

e-mail	bruno.nasone@cerema.fr

CEREMA

Mr Simon VRIGNEAU

Phone	+33 2 98 05 76 54
e-mail	simon.vrigneau@cerema.fr

Direction des Affaires Maritimes

Lt. Nicolas MAIRE

Phone	+33 1 40 81 70 83
Mobile phone	+33 6 86 51 65 33
e-mail	maire.nicolas@developpement-durable.gouv.fr
e-mail (alternative)	nicolas-maire@hotmail.fr

Signalis SAS

Captain Jacinto SOUSA

Phone	+351 21 4183764
Mobile phone	+351 91 998 3204
e-mail	jacinto.desousa.external@signalis.com
e-mail (alternative)	jacintopsousa@netcabo.pt

Signalis SAS

Mr Mathieu AILLERIE

Phone	+33 1 39 96 47 33
Mobile phone	+33 6 74 34 88 60
e-mail	mathieu.aillerie@signalis.com
e-mail (alternative)	mathieu.aillerie@gmail.com

Germany   **Federal Waterways & Shipping Administration**

Mr Dirk ECKHOFF

Phone	+ 49 431 3394 5702
e-mail	dirk.eckhoff@wsv.bund.de

Hong Kong	**Hong Kong Marine Department**

Mr Huang JIHE

Phone	+852 2233 7813
Mobile phone	+852 5404 5420
e-mail	jhuang@mardep.gov.hk

IHMA **International Harbour Masters Association**

Mr Kevin GREGORY

Phone	+44 1277 22 12 93
Mobile phone	+44 7711 640049
e-mail	kcsgregory@gmail.com

International Harbour Masters Association

Mr Tom SOUTHALL

Phone	+44 1 474 5622 82
Mobile phone	+44 7711640049
e-mail	tomsouthall9@hotmail.com

IMPA **IMPA - Bundeslotsenkammer**

Capt Stefan BOROWSKI

e-mail	stefan.borowski@kielpilot.de

Italy **Italian Coast Guard**

Lt. Michele LANDI

Phone	+39 090 6010702
Mobile phone	+39 334 8323853
e-mail	michele.landi@mit.gov.it
e-mail (alternative)	lan_mik@libero.it

Italian Coast Guard

Lt. Cdr Barbara MAGRO

Phone	+39 065 908 4354
Mobile phone	+39 328 0492564
e-mail	barbara.magro@mit.gov.it

Japan **Japan Coast Guard**

Mr. Eiichi MASUDA

Phone	+81-3-3591-5650
Mobile phone	+81 3 3591 6361
e-mail	jcghkokugikaihatsu1-6r9i@mlit.go.jp
e-mail (alternative)	kotsukikaku-i7gv@kaiho.mlit.go.jp

Japan Radio Co. Ltd

Mr Masanori MORISHITA

Phone	+81 26 214 7695
e-mail	morishita.masanori@jrc.co.jp

Japan Radio Co. Ltd

Mr Rivanny TROENOKARSO

Phone	+31 88 550 60 34
e-mail	r.troenokarso@jrc.am

Tokyo Keiki Inc.

Mr Takuya FUKUDA

Phone	+81 3 3737 8630
Mobile phone	+81 90 5195 2129
e-mail	ta-fukuda@tokyo-keiki.co.jp

Netherlands   **Dutch Pilots Corporation**

Captain Ed VERBEEK

Phone	+31 88 9002553
Mobile phone	+31 6 53404293
e-mail	e.verbeek@loodswezen.nl

Ministry of Infrastructure and the Environment

Mr Pieter PAAP

Phone	+31 64 663 6190
Mobile phone	+31 6 466 36 190
e-mail	pieter.paap@rws.nl
e-mail (alternative)	pieter.l.paap@quicknet.nl

Port of Rotterdam Authority

Mr Ben ROHNER

Phone	+31 10 252 1184
Mobile phone	+31 6 5353 1001
e-mail	b.rohner@portofrotterdam.com
e-mail (alternative)	b.rohner@hccnet.nl

STC B.V.

Mr Wim van't PADJE

Phone	+31 10 486 66 54
Mobile phone	+31 6 5512 8646
e-mail	padje@stc-r.nl
e-mail (alternative)	tpadje@xs4all.nl

Stichting NNVO

Ms Lilian BIBER-KLEVER

Phone	+31 10 40 900 40
Mobile phone	+31 6 33 66 87 87
e-mail	lbiber@nnvo.nl
e-mail (alternative)	bureau@nnvo.nl

Norway	**Kongsberg Norcontrol IT AS**	
	Mr Oeystein JOERGENSEN	
	Phone	+47 33 08 48 00
	Mobile phone	+47 95 20 25 74
	e-mail	oystein.joergensen@kongsberg.com
	Norwegian Coastal Administration	
	Mr Richard AASE	
	Phone	+47 52733315
	Mobile phone	+47 91866969
	e-mail	richard.aase@kystverket.no
	Norwegian Coastal Administration	
	Ms Malin DREIJER	
	Phone	+47 52 73 32 47
	Mobile phone	+47 95 19 05 75
	e-mail	malin.dreijer@kystverket.no
	Norwegian Coastal Administration	
	Mr Trond SKI	
	Phone	+ 47 70 23 10 64
	Mobile phone	+47 95 19 08 01
	e-mail	trond.ski@kystverket.no
	VisSim AS	
	Mr Peter EADE	
	Phone	+47 33 07 18 90
	Mobile phone	+47 7802 400280
	e-mail	peter.eade@vissim.no
	e-mail (alternative)	peter@vtmis.co.uk
Panama	**Panama Maritime Authority**	
	Eng Jonathan GUERINI	
	Phone	+501 5150/5151
	e-mail	fpitty@amp.gob.pa
People's Republic of China	**China Maritime Safety Administration**	
	Mr Yuesheng LIU	
	Phone	+86 10 652 928 87
	China Maritime Safety Administration	
	Mr Lei YIN	
	Phone	+86 10 65 29 3404
	e-mail	yinlei@sdmsa.gov.cn

China Maritime Safety Administration

Mr Chongyang ZHANG

Phone	+86 10 65299543
Mobile phone	+86 01350 968 6236
e-mail	szmsazcg@hotmail.com

China Maritime Safety Administration

Ms Wei ZHOU

Philippines **Philippines Coast Guard**

Ms Lissa Belle VILLANUEVA

Phone	+632 527 84 81
Mobile phone	+63 915 911 8804
e-mail	lissabelle_villanueva@yahoo.com

Republic of Congo **Centre National d'Information et de Documentation Maritime**

Mr Fabrice GOMA

Mobile phone	+33 6 23 285 51 90
e-mail	fabrice_goma2002@yahoo.fr
e-mail (alternative)	associationampcd@yahoo.fr

Republic of Korea **Global Control Systems Corporation**

Mr Sang-Gil LEE

Phone	+82 51 637 8932
Mobile phone	+82 10 8769 6363
e-mail	sglee@gcsc.co.kr

KIMFT under National

Dr Seung Hee CHOI

Phone	+82 51 620 5745
Mobile phone	+82 10 5309 4620
e-mail	eng1017@daum.net
e-mail (alternative)	seunghee.choi.1017@gmail.com

Ministry of Oceans and Fisheries

Mr Eunil KIM

Phone	+82 55 981 2550
Mobile phone	+82 55 981 2850
e-mail	Kim105111@daum.net

Ministry of Oceans and Fisheries

Mr Jong-Ik PARK

Phone	+82 44 205 2186
Mobile phone	+82 44 205 8985
e-mail	dpji79@korea.kr

Russia	**FSUE Rosmorport**	

Mr Sergei ROSTOPSHIN

Phone	+7 812 450 60 40
Mobile phone	+7 921 75 77 009
e-mail	S.Rostopshin@spb.rosmorport.ru
e-mail (alternative)	s.rostopshin@gmail.com

Transas Marine Ltd

Mr Dmitry ROSTOPSHIN

Phone	+7 812 325 3131
Mobile phone	+7 911 2977777
e-mail	rost@transas.com

Singapore	**Maritime and Port Authority of Singapore**

Mr Nicholas CHIEW

Phone	+65 6375 1602
Mobile phone	+65 9337 8704
e-mail	Nicholas_chiew@mpa.gov.sg
e-mail (alternative)	Nicholas.chiew87@gmail.com

Maritime and Port Authority of Singapore

Captain Teo TZE KERN

Phone	+65 6773 7438
Mobile phone	+65 9023 5490
e-mail	Teo_Tze_Kern@mpa.gov.sg

Spain	**Centro de Seguridad Maritimo Jovellanos**

Mr Carlos SALINAS

Phone	+34 985 159 800
Mobile phone	+34 635 572 547
e-mail	jcarlosfs@centrojovellanos.com
e-mail (alternative)	fernandezsalinas@gmail.com

SASEMAR

Captain Joaquin MACEIRAS

Phone	+34 917 559 100
Mobile phone	+34 609 018 417
e-mail	diroper@sasemar.es
e-mail (alternative)	joaquinms@sasemar.es

Sweden	**SAAB Technologies**

Mr René HOGENDOORN

Mobile phone	+31 610 925 412
e-mail	rene.hogendoorn@saabgroup.com
e-mail (alternative)	r.hogendoorn@hitt.nl

Swedish Maritime Administration

Mr Anders JOHANNESSON

Phone	+46 771 63 00 00
Mobile phone	+46 737 22 48 44
e-mail	anders.johannesson@sjofartsverket.se

Swedish Maritime Administration

Mr Fredrik KARLSSON

Phone	+46 10 47 84 632
e-mail	fredrik.karlsson@sjofartsverket.se

Swedish Maritime Administration

Mr Marco SVANTESSON

Mobile phone	+46 709 647 742
e-mail	marco.svantesson@sjofartsverket.se

Swedish Transport Agency

Ms Monica SUNDKLEV

Phone	+46 10 495 3336
Mobile phone	+46 767 21 10 49
e-mail	monica.sundklev@transportstyrelsen.se

Turkey

Directorate General of Coastal Safety

Captain Tuncay CEHRELI

Mobile phone	+90 505 296 78 75
e-mail	tcehreli@kegm.gov.tr
e-mail (alternative)	tcehreli@hotmail.com

Directorate General of Coastal Safety

Mr Burçin ERLEVENT

Phone	+90 212 334 45 00
Mobile phone	+90 532 275 32 60
e-mail	berlevent@gmail.com
e-mail (alternative)	burcin.erlevent@kegm.gov.tr

Directorate General of Coastal Safety

Mr Hakan VURAL

e-mail	vural@kegm.gov.tr

UK

Maritime Coast Guard Agency

Mr Muhammad Shahid KHAN

Phone	+44 7764144383
Mobile phone	+44 757 808 5225
e-mail	Muhammad.khan@mcga.gov.uk
e-mail (alternative)	mskhan76@msn.com

School of Marine Simulation and Senior Marine

Mr Jeremy GOUGH

Mobile phone	+44 191 427 3827
e-mail	Jeremy.Gouch@stc.ac.uk

United Arab Emirates

Abu Dhabi Ports Company

Mr Ibrahim Ahmed Ali BIN HRAIZ

Phone	+971 2 510 9393
Mobile phone	+971 50 623 8886
e-mail	ibrahim.binhraiz@adports.ae
e-mail (alternative)	i_hraiz@hotmail.com

Apologies

Name	Organisation	Country
Robert Townsend	Maritime and Coastguard Agency	UK

New Members

Name	Organisation	Country
Lima PORTHOS	CONAPRA	Brazil
Gaëtan BOUDREAULT	CCG	Canada
Shuangxi ZHANG	China MSA	China
Lei YIN	China MSA	China
Annette SVENDSEN	TERMA A/S	Denmark
Khaled Fouad ELSAYED	Egyptian Authority for Maritime Safety	Egypt
Sari TALJA	FTA	Finland
Bruno NASONE	CEREMA	France
Simon VRIGNEAU	CEREMA	France
Huang JIHE	Hong Kong Marine Department	Hong Kong
Masanori MORISHITA	Japan Radio Co. Ltd	Japan
Rivanny TROENOKARSO	Japan Radio Co. Ltd	Japan
Thomas WILBERS	Japan Radio Co. Ltd	Japan
Eunil KIM	Ministry of Oceans and Fishereis	Korea
Jong-Ik PARK	Ministry of Oceans and Fishereis	Korea
Lissa Belle VILLANUEVA	Philippine Coast Guard	Philippines
Robert PATRIMONIO	Philippine Coast Guard	Philippines
BASAER Shawky	Qatar Ports Management Company	Qatar
Evgeny GAYDUK	Kronstadt Technology, JSC	Russia
Hakan VURAL	Directorate General of Coastal Safety	Turkey
Philipp BOSTOCK	Maritime and Coastguard Agency	UK
Jeremy GOUGH	School of MARINE Simulation and Senior Marine	UK

Observers

Name	Organisation	Country
Jeremy GOUGH	School of MARINE Simulation and Senior Marine	UK

ANNEX C WORKING GROUP PARTICIPANTS

Working Group 1 Operations

	Name		Organisation / Country
1	Monica Sundklev	(Chair)	Swedish Transport Agency / Sweden
2	Jørgen Brandt	(Vice Chair)	Great Belt VTS / Denmark
3	Tom Southall	(Vice Chair)	IHMA / UK
4	Are Piel		Estonian Maritime Administration / Estonia
5	Ben Röhner		Port of Rotterdam / the Netherlands
6	Chongyang Zhang		China MSA / People's Republic of China
7	Ed Verbeek		Dutch Pilots Corporation / the Netherlands
8	Els Bogaert		Flemish VTS / Belgium
9	Fredrik Karlsson		Swedish Maritime Administration / Sweden
10	Gaetan Boudreault		Canadian Coast Guard / Canada
11	Huang Jihe		Hong Kong Marine Department / Hong Kong
12	Jacinto de Sousa		Signalis / France
13	Joaquin Maceiras		Sasemar / Spain
14	Jong-Ik Park		Ministry of Public Safety and Security / Rep of Korea
15	Juri Ehandi		Estonian Maritime Administration / Estonia
16	Kim Eunil		Ministry of Oceans and Fisheries / Rep of Korea
17	Malin Dreijer		Norwegian Coastal Administration / Norway
18	Marco Svantesson		Swedish Maritime Administration / Sweden
19	Michael Bergmann		CIRM
20	Michele Landi		Coast Guard / Italy
21	Muhammad Khan		MCA / UK
22	Per Baek Hansen		Royal Danish Navy, Soundrep / Denmark
23	Peter Eade		Vissim / Norway
24	Pieter Paap		Ministry of Infrastructure & the Environment / the Netherlands
25	Porthos Lima		Brazilian Pilots Association / Brazil
26	Sari Talja		Finnish Transport Agency / Finland
27	Sergei Rostopshin		Rosmorport / Russia
28	Sergio Gabriel Cernadas		Prefectura Naval Argentina / Argentina
29	Stefan Borowski		Bundeslodsenkammer / IMPA
30	Sueng Hee Choi		Ministry of Oceans and Fisheries / Rep of Korea

	Name	Organisation / Country
31	Teo Tze Kern	Maritime and Port Authority / Singapore
32	Thomas Erlund	Finnish Transport Agency / Finland
33	Trond Ski	Norwegian Coastal Administration / Norway
34	Tuomas Martikainen	Finnish Transport Agency / Finland
35	Yin Lei	China MSA / People's Republic of China

Working Group 2   Technology

	Name	Organisation / Country
1	Richard Aase (Chair)	Norwegian Coastal Administration / Norway
2	Dirk Eckhoff (Vice Chair)	Federal Waterways and Shipping / Germany
3	Annette Svendsen	TERMA AS / Denmark
4	Bruno Nasone	Cerema / France
5	Dmitry Rostopshin	Transas / Russia
6	Hakan Vural	DGCS / Turkey
7	Jens Christian Pedersen	TERMA AS / Denmark
8	Khaled Fouad Elsayed	Egypt Maritime Safety / Egypt
9	Liu Yuesheng	China MSA / People's Republic of China
10	Masanori Morishita	Japan Radio Co. / Japan
11	Mathieu Aillerie	Signalis / France
12	Nicholas Chiew	Maritime and Port Authority / Singapore
13	Oeystein Joergensen	Kongsberg Norcontrol / Norway
14	Rene Hogendoorn	SAAB / Sweden
15	Rivanny Troenokarso	Japan Radio Co. / Japan
16	Sang-Gil Lee	Global Control Systems Corporation / Rep of Korea
17	Serge Deschamps	Canadian Coast Guard / Canada
18	Simon Vrigneau	Cerema / France
19	Takuya Fukuda	Tokyo Keiki Inc / Japan
20	Wael Abd Elfattah Aly	Egypt Maritime Safety / Egypt
21	Wim Smets	Shipping Assistance Division / the Netherlands

Working Group 3   VTS Training

	Name	Organisation / Country
1	Kevin Gregory (Chair)	International Harbour Masters Association / UK
2	Lilian Biber (Vice Chair)	NNVO / the Netherlands
3	Anders Johannesson	Swedish Maritime Administration / Sweden
4	Antonio Carlos Oliveira	Admiral Moraes Rego Center / Brazil
5	Barbara Magro	Italian Coastguard / Italy
6	Burçin Erlevent	DGCS / Turkey
7	Carlos Fernandez Salinas	Sasemar / Spain
8	Eiichi Masuda	Japan Coast Guard / Japan
9	Hakan Vural	DGCS / Turkey
10	Ibrahim Ahmed Ali Bin Hraiz	Abu Dhabi Ports Company / United Arab Emirates
11	Jeremy Gough	South Tyneside College / UK
12	Jonathan Guerini	Panama Maritime Authority / Panama
13	Lissa Belle Villanueva	Philippines Coast Guard / Philippines
14	Mika Halttunen	Finnish Transport Agency / Finland
15	Niels Jacob Mygind	Danish Defence Command / Denmark
16	Stefaan Priem	Shipping Assistance Division / Belgium
17	Wei Zhou	China MSA / People's Republic of China
18	Wim van 't Padje	STC / the Netherlands

ANNEX D   LIST OF INPUT PAPERS

All papers are posted on the Committee section of the IALA website

	Document number	Agenda item	Title
1	VTS43-1.2	1.2	Agenda
2	VTS43-1.4	1.4	Programme for the week
3	VTS43-2.1	2.1	Actions from VTS42
4	VTS43-2.2	2.2	(VTS42-14) Report of VTS42
5	VTS43-3.1.0	3.1	Draft IALA Standards
6	VTS43-3.1.1	3.1	(C63-8.4.1.1) Draft IALA Standard 1010 AtoN Planning & Service Requirements
7	VTS43-3.1.2	3.1	(C63-8.4.1.2) Draft IALA Standard 1020 AtoN Design and Delivery
8	VTS43-3.1.3	3.1	(C63-8.4.1.3) Draft IALA Standard 1030 Radionavigation Services
9	VTS43-3.1.4	3.1	(C63-8.4.1.4) Draft IALA Standard 1040 Vessel Traffic Services
10	VTS43-3.1.5	3.1	(C63-8.4.1.5) Draft IALA Standard 1050 Training and Certification
11	VTS43-3.1.6	3.1	(C63-8.4.1.6) Draft IALA Standard 1060 Digital Communication Technologies
12	VTS43-3.1.7	3.1	(C63-8.4.1.7) Draft IALA Standard 1070 Information Services
13	VTS43-3.1.8	3.1	(PAP33-10.2) Recommendations Plans for Standards
14	VTS43-3.2.1	3.2	Report VTS2016 Final
15	VTS43-3.2.2	3.2	Revision of Working Papers
16	VTS43-3.2.3	3.2	Reformatting VTS Model Courses
17	VTS43-3.2.4	3.2	V-103-1 Ed2 Model Course VTS Operator_Dec2009
18	VTS43-3.2.5	3.2	IALA Model Course V-103-1 Ed.2 December 2009 Draft 11Jan17 - MH comment
19	VTS43-3.2.6	3.2	Feedback VTS Questionnaire WG3
20	VTS43-3.2.7	3.2	WG3 comments on Questionnaire
21	VTS43-3.2.8	3.2	Report IALA Workshop on VTS Communications
22	VTS43-3.2.9	3.2	Executive summary_International Workshop on Next Generation VTS
23	VTS43-3.3.1	3.3	(ENAV19-14.1.23) Liason note to VTS Cttee on e-Navigation road map
24	VTS43-3.3.2	3.3	(ARM5-12.1.5) Liaison to ENAV-VTS-ENG on Mobile AtoN
25	VTS43-3.3.3	3.3	(ARM5-12.2.7) WG1 IALA Recommendation MAtoN ARM 5_v2
26	VTS43-3.3.4	3.3	(ARM5-12.2.8) WG1 IALA Guideline MAtoN ARM 5 v2
27	VTS43-3.3.5	3.3	(ARM5-12.1.8) Liaison to all committees - reminder on the NAVGUIDE
28	VTS43-3.3.6	3.3	(ARM5-12.2.9) WG2-navguide_2015_tracking_table
29	VTS43-3.3.7	3.3	(ENAV20-4.9) MTCAS- An e-Navigation Assistance System for

	Document number	Agenda item	Title
			Cooperative Collision Avoidance at Sea
30	VTS43-3.3.8	3.3	(ENAV20-12.2) NIPWG3 IALA-IHO Interaction on the IMO Maritime Service Portfolio Program
31	VTS43-3.3.9	3.3	(ENAV20-14.1.20) Liaison to ENG-ANM-VTS On Use of Racons in Busy Harbours
32	VTS43-3.3.10	3.3	(ENAV20-13.11) On Racons in Busy Harbours 24 February 2017
33	VTS43-3.3.11	3.3	(ENAV20-14.1.24) Liaison Note - VTS plenary
34	VTS43-4.1.1	4.1	(C63-19.2) Final Report C63
35	VTS43-4.2.1	4.2	(C63-8.1) report PAP32
36	VTS43-4.2.2	4.2	DWG liaison note to VTS43 re Dictionary definitions
37	VTS43-8.2.1	8.2	(VTS42-12.2.1) WG1-WP1 (MSP)
38	VTS43-8.2.2	8.2	template for MSP 1.1.4
39	VTS43-8.2.3	8.2	Annex 1, MSP 1, Information Service Template
40	VTS43-8.2.4	8.2	Annex 2, MSP 2, Navigational Assistance Service Template
41	VTS43-8.2.5	8.2	(ENAV20-14.1.12) liaison note from ENAV to VTS re MSPs post plenary
42	VTS43-8.3.1	8.3	(VTS42-12.2.2) WG1-WP2 Draft Guideline on Measures to Evaluate the Effectiveness of VTS
43	VTS43-8.3.2	8.3	(VTS42-12.2.2) rev MH WG1-WP2 Draft Guideline on Measures to Evaluate the Effectiveness of VTS rev2
44	VTS43-8.5.1	8.5	(VTS42-12.2.3) WG1-WP3 Draft Guideline on VTS Radiotelegraphy Communications
45	VTS43-8.5.2	8.5	(VTS42-12.2.3) rev MH WG1-WP3 Draft Guideline on VTS Radiotelegraphy Communications rev1
46	VTS43-8.5.3	8.5	Input on draft VTS Communications Recommendation
47	VTS43-8.6.1	8.6	(VTS42-12.1.3) Compelling Needs (Final-VTS42)
48	VTS43-8.6.2	8.6	Proposed Updates to IMO Resolution A.857(20)
49	VTS43-8.6.3	8.6	Proposed Draft IMO Submission A.857(20)
50	VTS43-9.1.1	9.1	(VTS42-12.2.4) WG2 Task 2.1.1 Draft Recommendation on Portrayal of VTS Information and data
51	VTS43-9.1.2	9.1	(VTS42-12.2.4) rev MH WG2 Task 2.1.1 Draft Recommendation on Portrayal of VTS Information and data rev1
52	VTS43-9.2.1	9.2	(VTS42-12.2.5) WG2 Task 2.2.1 Draft Guideline on Acceptance of VTS Systems
53	VTS43-9.2.2	9.2	(VTS42-12.2.5) rev MH WG2 Task 2.2.1 Draft Guideline on Acceptance of VTS Systems rev1
54	VTS43-9.3.1	9.3	(VTS42-12.2.6) WG2 Task 2.3.1 Draft Guideline on the interaction with other stakeholders
55	VTS43-9.3.2	9.3	(VTS42-12.2.6) rev MH WG2 Task 2.3.1 Draft Guideline on the interaction with other stakeholders rev1
56	VTS43-10.2.1	10.2	(VTS42-12.2.7) WG3 Draft revision of Recommendation V-103

	Document number	Agenda item	Title
57	VTS43-10.2.2	10.2	(VTS42-12.2.7) rev MH WG3 Draft revision of Recommendation V-103 rev1
58	VTS43-10.2.3	10.2	Draft IALA Guideline 1xxx on the Standards for Training and Certification of VTS Personnel (to accompany V-103)
59	VTS43-10.2.4	10.2	(VTS42-12.2.8) WG3 (VTS42-10.2.2) VTS Manager Training
60	VTS43-10.2.5	10.2	explanatory note - reformat of Recommendation V-103
61	VTS43-10.2.6	10.2	(VTS42-12.2.7) rev KG WG3 Draft revision of Recommendation V-103 rev1[1]
62	VTS43-10.2.7	10.2	rev KG Draft IALA Guideline 1xxx on the Standards for Training and Certification of VTS Personnel (to accompany V-103)
63	VTS43-10.2.8	10.2	VTS Ctee Input re IMO MSC Circ 1065 update
64	VTS43-10.2.9	10.2	Proposed IMO MSC Input - Updating MSC Circ 1065
65	VTS43-10.2.10	10.2	Input re V103 Docs
66	VTS43-10.3.1	10.3	(VTS42-12.2.9) WG3 Human Factors and Ergonomics in VTS
67	VTS43-11.1	11	Overall status of the VTS work programme 2014-18 after VTS42

Presentations given by rapporteurs and presenters

Presentations are posted on the Committee section of the IALA website

Document number	Agenda item	Title
VTS43-1.1	1	Secretariat Presentation VTS43
VTS43-6.1	6	WWA VTS Committee brief
VTS43-6.2	6	RISE_2017-03-20_PortCDM
VTS43-6.3	6	IALA 43rd VTS Committee introduction of ASEAN Regional VTS Training 20170319
VTS43-6.4	6	The Quality Management System of VTS
VTS43-13.1	13	19th IALA Conference Promotional Presentation

ANNEX E   LIST OF OUTPUT DOCUMENTS AND WORKING PAPERS

Output documents are submitted for review/action by a body other than the Committee initiating the document.

Number	Title	Status
VTS43-14	Report VTS43	To Council to note
VTS43-12.1.1	Liaison to Council on name change task 2-3-1	To Council to approve
VTS43-12.1.2	Liaison to Secretariat and PAP re IALA Standards	To Secretariat and PAP to action
VTS43-12.1.3	Liaison to PAP on DWG definitions	To PAP-DWG to action
VTS43-12.1.4	Liaison to Council re MSC Circular	To Council to approve After approval to IMO
VTS43-12.1.5	Proposed IMO MSC Input – Updating MSC Circ 1065	To Council to approve After approval to IMO
VTS43-12.1.6	Liaison to Council-PAP-ENAV on VDES	To Secretariat, Joint VTS-ENAV and ENAV to action
VTS43-12.1.7	Liaison to Council on submission to MSC ref A 857_20 (Rev 1)	To Council to approve
VTS43-12.1.8	Liaison to Council re Recommendation V-103	To Council to note
VTS43-12.1.9	Draft revision of Recommendation V-103	To Council to approve
VTS43-12.1.10	Liaison to AMSA re V-103	To AMSA to note
VTS43-12.1.11	Liaison to Secretariat re VTS Model Courses	To Secretariat to note
VTS43-12.1.12	Proposed Draft IMO Submission A.857(20) 230317	To Council to approve
VTS43-12.1.13	Liaison to Council on media relations	To Council to approve
VTS43-12.1.14	Liaison to ARM on MAtoNs	To ARM to consider
VTS43-12.1.15	Liaison to Council on change task name for VTS effectiveness	To Council to approve
VTS43-12.1.16	Liaison to ENAV on MSPs	To ENAV to action
VTS43-12.1.17	Draft Guideline on MSPs	To ENAV to action
VTS43-12.1.18	Annex 1, MSP 1, Information Service Template	To ENAV to action
VTS43-12.1.19	Annex 2, MSP 2, Navigational Assistance Service Template	To ENAV to action
VTS43-12.1.20	Annex 3, Draft MSP 3,Traffic Organisation Service Template 170321	To ENAV to action

Working papers will remain within the Committee for further review during **VTS44**.

Number	Title
VTS43-11.2.1	Proposed 2018-22 Work Programme rev 7
VTS43-11.2.2	Work Programme 2018 - 2022 Task Register
VTS43-12.2.1	WG2 Recommendation on Portrayal of VTS Information and Data V-xxx - 2017-03-23
VTS43-12.2.2	(VTS43-9.2.1) WG2 Task 2.2.1 Draft Guideline on Acceptance of VTS Systems - output document draft
VTS43-12.2.3	(VTS43-9.3.2) WG2 Task 2.3.1 Draft Guideline on the interaction with other stakeholders rev2b
VTS43-12.2.4	(VTS43-10.3.1) WG3 Human Factors and Ergonomics in VTS
VTS43-12.2.5	WG3 Draft Guideline on VTS Awareness for Navigating Officers
VTS43-12.2.6	WG1 Draft Guideline on MSPs
VTS43-12.2.7	WG1 Annex 1, MSP 1, Information Service Template
VTS43-12.2.8	WG1 Annex 2, MSP 2, Navigational Assistance Service Template
VTS43-12.2.9	WG1 Annex 3, Draft MSP 3,Traffic Organisation Service Template 170321
VTS43-12.2.10	WG1 Draft Guideline for setting objectives for a VTS and achieving them
VTS43-12.2.11	WG1 VTS Communications Recommendation v.1.0 Clean
VTS43-12.2.12	WG1 Draft Guideline on VTS Radiotelephony Communications v.1.1

Documents on hold will remain in the Committee for future review.

Number	Title	Status
VTS41-8.4.1	WG1 WP1.4.4 Draft Guideline zero accident campaign April-2015	Pending IMO response
VTS41-9.2.2	20160120 VTS Ctee Input Paper - V-128 & Guideline 1111 final	Proposed for 2018-2022 Work Programme
VTS41-10.5.1	WG3 VTS MANAGER training need	Proposed for 2018-2022 Work Programme
VTS41-10.5.5	WG3 Authenticity, validation and security of certification	Proposed for 2018-2022 Work Programme
VTS42-3.2.1	(ENAV18-14.1.18) Liaison note to VTS Committee on S-200 product specification for the IVEF service	Proposed for 2018-2022 Work Programme
VTS42-3.2.2	(ENAV18-9.16.2) IALA Draft Product Specification IVEF v0.0.4 20160104	Proposed for 2018-2022 Work Programme
VTS42-3.2.3	(ENAV18-9.16.3) IALA S100 Gap Analyses v0.1.1 20160104	Proposed for 2018-2022 Work Programme
VTS42-3.2.4	(ENAV18-9.16.4) IALA S100 Recommendation Gap v0.1.1 20160104	Proposed for 2018-2022 Work Programme

ACTION ITEMS

Action Items for Secretariat

1. The **Committee Secretary** is requested to forward the liaison note on MSP (VTS43-12.1.16) together with the draft IALA Guideline on Maritime Service Portfolios: Digitising Maritime Services (VTS43-12.1.17) and the templates on MSP1, MSP2 and MSP3 (Annex 1-3) (VTS43-12.18, VTS43-12.1.19, VTS43-12.1.20) to ENAV21. 12

2. The **Committee Secretary** is requested to forward draft Guideline on Maritime Service Portfolios for VTS (VTS43-12.2.6) and the revised templates on MSP1, MSP2 and MSP3 (VTS43-12.2.7, VTS43-12.2.8, VTS43-12.2.9) as working documents to VTS44. 13

3. The **Committee Secretary** is requested to forward the proposed change of the task title to Council for their approval (VTS43-12.1.15). 13

4. The **Committee Secretary** is requested to forward the draft Guideline on Effectiveness (VTS43-12.2.10) as a working paper to VTS44. 13

5. The **Committee Secretary** is requested to forward the working documents on VTS Communication (VTS43-12.2.11 and VTS43-12.2.12) to VTS 44 for further review and consideration. 14

6. The **Committee Secretary** is requested to forward the liaison note on "Review of IMO Resolution A.857(20) Guidelines for Vessel Traffic Services'" (VTS43-12.1.7) and the draft proposal to the IMO for a new output to update the Resolution being completed (VTS43-12.1.12) to IALA Council for approval. 14

7. After Council approval, the **Secretariat** is requested to forward the draft proposal to the IMO for a new output to update the Resolution being completed (VTS43-12.1.12) to IALA National Members for their consideration as the basis for sponsoring a submission to the IMO. 14

8. The **Committee Secretary** is requested to forward the liaison note (VTS43-12.1.14) to ARM. 15

9. The **Committee Secretary** is requested to forward the working document VTS43-12.2.1 on portrayal to VTS44. 16

10. The **Committee Secretary** is requested to forward the working document VTS43-12.2.2 on acceptance VTS systems to VTS44. 16

11. The **Committee Secretary** is requested to forward the working document VTS43-12.2.3 on technical interface with other stakeholders to VTS44. 16

12. The **Committee Secretary** is requested to forward liaison note VTS43-12.1.1 on name change of the guideline to Council 16

13. The **Committee Secretary** is requested to forward the liaison note VTS43-12.1.6 on the introduction of VDES to ENAV Committee, Joint ENAV / VTS Workgroup and Secretariat. 16

14. The **Committee Secretary** is requested to forward the liaison note VTS43-12.1.3 Reply DWG liaison note to VTS43 re Dictionary definitions to DWG 17

15. The **Committee Secretary** is requested to forward the cover note and the revised IALA Recommendation V-103 (VTS43-12.1.8 and VTS43-12.1.9) to Council for approval. 17

16. The **Committee Secretary** is requested to forward the Liaison Note on V-103 (VTS43-12.1.10) to the Australian Maritime Safety Authority. 17

17. The **Committee Secretary** is requested to forward the cover note and the draft IMO MSC Input Paper containing revisions to MSC/Circ.1065 (VTS43-12.1.4 and VTS43-12.1.5) to Council for approval and after approval as submission to the IMO. 17

18. The **Committee Secretary** is requested to forward the Liaison Note (VTS43-12.1.11) to the IALA Secretariat. 18

19. The **Committee Secretary** is requested to forward working document on Human Factors (VTS43-12.2.4) as working paper for VTS44. 19

Action Items for Participants

IALA