Input paper: [[1]](#footnote-1) VTS51-9.6.1

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

**□** ARM **□** ENG **□** PAP **X** Input

**□** ENAV **X** VTS **□** Information

Agenda item [[2]](#footnote-2) 9.6

Technical Domain / Task Number 2 1.1.1

Author(s) / Submitter(s) Task Group 1.4.3

# PREPARE A LIVING DOCUMENT ON FUTURE VTS

# background

The Committee commenced work on Task 1.4.3 – *Prepare a Living Document on Future VTS* at VTS50. Key outcomes included:

* Reviewing / updating the Task Register.

A copy of the Task Register is available at *VTS50-13.3.0.2 VTS Task Register 2018-2022 - Rev2 (2021-03-31)*.

* Preparing ‘Guiding Principles’ (*VTS50-13.3.1.8 WP Guiding Principles - Future VTS (1.0*) to provide a framework for preparing a high-level reference document to assist the Committee:
  + Be cognizant of emerging practices, technologies and trends that will affect the provision of VTS.
  + Assess and monitor the potential impact, challenges and opportunities for VTS.
  + Strategically embrace change and, in particular, how existing VTS practices could be enhanced, potential new practices adopted.
  + Plan for the future, for example:
    - Adopting future work programme tasks.
    - Facilitating necessary changes to IALA Standards relating to VTS or the international legal and regulatory framework for VTS.
    - Managing any practical issues and challenges in transitioning to a more proactive role for VTS in the future.
    - Liaison/engagement with other bodies.
    - Engaging and communicating with all stakeholders and the public.
* Preparing a preliminary draft document (*VTS50-13.3.1.9 WPTG-1.4.3-04 Future VTS - Discussion Paper (V0.2 - Input for Meeting 4)*).
* Formation of a Task Group (TG1.4.3) to progress the draft for consideration at VTS51.

# introduction

Participants in the Group included:

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| --- | --- | --- |
| **Surname** | **First Name** | **Affiliation** |
| Trainor | Neil | Australian Maritime Safety Authority |
| Bogaert | Els | Agency for Maritime Services and Coast - Flemish Government |
| Li | Yuanhang | China Maritime Safety Administration |
| Ya Lei | Ren | China Maritime Safety Administration |
| Li | Xiang | China Maritime Safety Administration |
| Wang | Bing | China Maritime Safety Administration |
| Sobott | Toni | Finnish Transport Infrastructure Agency |
| Martikainen | Tuomas | Finnish Transport Infrastructure Agency |
| Aaltonen | Matti | Finnish Transport and communications Agency Traficom |
| Martikainen | Tuomas | Finnish Transport Infrastructure Agency |
| Noguchi | Hideki | Japan Coast Guard |
| Hoeve | Remi | Dutch Ministry of Infrastructure & Water Management |
| Drenth | Martijn | Dutch Pilots' Corporation |
| van Dorsser | Harmen | Port of Rotterdam Authority |
| Teo | Tze Kern | Maritime and Port Authority of Singapore |
| Sng | Henry | Maritime and Port Authority of Singapore |
| Priem | Stefaan | Belgium Agency for Maritime Services and Coast |
| Uyà | Àfrica | Spanish Maritime Safety and Rescue Agency. |
| Karlsson | Fredrik | Swedish Maritime Administration |
| Rostopshin | Dmitry | Wärtsilä |
| Mathis | Darin | USCG |
| Eade | Peter | VISSIM |

The Group met 8 times following VTS 50 via MS Teams.

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| **Meeting** | **Date** | **File Name** |
| TG 1.1.3-01 | 29 April 2021 | *TG 1.4.3-01 - Report from Meeting 1* |
| TG 1.1.3-02 | 17 May 2021 | *TG 1.1.3-02 - Report from Meeting 2* |
| TG 1.1.3-03 | 31 May 2021 | *TG 1.1.3-03 - Report from Meeting 3* |
| TG 1.1.3-04 | 14 June 2021 | *TG 1.1.3-04 - Report from Meeting 4* |
| TG 1.1.3-05 | 28 June 2021 | *TG 1.4.3-05 - Report from Meeting 5* |
| TG 1.1.3-06 | 12 July 2021 | *TG 1.4.3-06 - Report from Meeting 6* |
| TG 1.1.3-07 | 26 July 2021 | *TG 1.4.3-07 - Report from Meeting 7* |
| TG 1.1.3-08 | 9 Aug 2021 | *TG 1.4.3-08 - Report from Meeting 8* |

The reports from each meeting are available on the IALA file share at:

[*https://nextcloud.iala-aism.org/index.php/apps/files/?dir=/Committees/VTS/Post%20VTS50%20Intersessional%20TGs/Task%201.2.5%20-%20Implications%20of%20MASS%20from%20a%20VTS%20Perspective&fileid=118586*](https://nextcloud.iala-aism.org/index.php/apps/files/?dir=/Committees/VTS/Post%20VTS50%20Intersessional%20TGs/Task%201.2.5%20-%20Implications%20of%20MASS%20from%20a%20VTS%20Perspective&fileid=118586)

# Discussion

Noting the guiding principles prepared for this Task at VTS50 (*VTS50-13.3.1.8 WP Guiding Principles - Future VTS (1.0)*), the Group focussed on the key elements of the draft document, that is:

* Expectations for ‘Future VTS’.
* The emerging practices, technologies and trends identified as having a potential impact on VTS in the near to medium future.

In commencing its task, the Group also formulated two questions to assist progressing the document:

* What do VTS authorities expect to be doing in the future as the emerging practices, technologies and trends mature; and
* What do ‘users’ expect?

Considerations in preparing the revised document for consideration at VTS51 included:

* Aligning the document with the future maritime trends and global developments identified in IALA’s *Strategic Vision 2018-2026* and *Current Drivers and Trends* that are most likely to have an impact on IALA and how these may affect the association’s priorities, organisation and activities which are aimed at supporting its objectives and strategic goals.
* Establishing a ‘common view’ of what future VTS may look like with regards to capabilities and deliverables and updating the ‘*Expectations for Future VTS’* section (Section 4.1). Key expectations identified include:
  + **Management of Ship Traffic** - Future VTS will provide a more pro-active role for more effective and efficient management of ship traffic, whether conventional or autonomous, through enhanced technical capabilities for pre-planning when contributing to:
    - Monitoring and management of ship traffic to ensure the safety and efficiency of ship movements and their interaction with other waterway stakeholders.
    - Identifying and responding to developing unsafe situations in the waterway to mitigate the risk of an incident.
  + **Data Hub** - Future VTS will provide an information management / data exchange hub that facilitates efficient information management and exchange between all stakeholders in the maritime domain.
  + **Digital Technologies / Communications** - Future VTS will interact with ships and other stakeholders primarily by enhanced digital communications for the exchange of information for or issue advice, warnings and instructions as deemed necessary.
* Updating the ‘*Emerging practices, technologies and trends’* section (Section 4.2), focussing on:
  + Maritime Autonomous Surface Ships (Section 4.2.1);
  + Digital Technologies and Communications (Section 4.2.2); and
  + Green House Gas Polices (Section 4.2.3).
* Including a brief statement on the expected outcome/s for each development in the table summarising the developments, expected timeframe and the VTS Committee’s action/response.
* Minor amendments to the document structure to better align the document with the purpose of the document in providing a concise, high level, reference to assist the Committee.

No amendments are proposed to the following documents from VTS50:

* The contents of Task Register for this task (*VTS50-13.3.0.2 VTS Task Register 2018-2022 - Rev2 (2021-03-31)*)
* The Guiding Principles (*VTS50-13.3.1.8 WP Guiding Principles - Future VTS (1.0)*)

# Action requested of the Committee

The Committee is requested to consider the revised document prepared by TG 1.4.3.

ENCLOSUREs:

1. Draft revision of the *Discussion Paper – Future VTS* (*VTS51-9.6.1.1 WP TG-1.4.3 Future VTS - Discussion Paper*).

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