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| **VTS Committee**  **Task Register**  **For**  **2023 – 2027** |
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**PURPOSE OF THIS DOCUMENT**

The purpose of this document is to maintain a register of the tasks to be prepared and developed by the VTS Committee in accordance with the Work Programme 2023 – 2027, which has been approved by the IALA Council.

This Task Register should describe:

* What tasks that should be progressed and when.
* The connection to IALA Standard and scope.
* How each task is aligned to meeting the goals and strategies of IALA Strategic Vision.
* The objective and compelling need of why the task should be prepared.
* The expected outcome, such as Recommendation, Guideline or Model Course etc.
* What should or should not be included/considered in the work.
* A brief description of the work to be undertaken.
* If possible, who proposed the task to be developed.
* Key current status and changes to a task during its development.

**DOCUMENT REVISION**

Revisions to this IALA VTS Task Register are to be noted in the table below:

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| **Date** | **Page / Section Revised** | **Requirement for Revision** |
| 07 Oct 2021 | First draft | Only task provided by template format  by Dirk Eckhoff |
| 13 Oct 2021 | Several pages | More tasks added by Dirk Eckhoff |
| 14 Oct 2021 | Several pages | More tasks added, formatting by Dirk Eckhoff |
| 22 July 2022 | Page 7 /Task 1.1.2. | Title change by Dirk Eckhoff |
| 27 July 2022 | Page 14 /Task 2.1.2 | Task added by Dirk Eckhoff |
| 01 Sep 2022 | All pages | Add tasks to be forwarded for previous Work Programme and invent new task numbering schema by Dirk Eckhoff |
| 07 Sep 2022 | Task 1.1.6, Task 2.7.1 | Task deleted T1.1.6 no new task, T2.7.1 finalized previous WP by Dirk Eckhoff |
| 11 Sep 2022 | Task 1.3.1, 1.3.2, 1.3.3, 2.5.1, 2.6.1, 3.4.1 | New task numbers according to the foreseen new standard 1040 topic numbers by Dirk Eckhoff |
| 23 Sep 2022 | Task 1.1.4 and 1.1.5  Task 2.5.1  Task 1.3.1 | Task description inserted  Task inserted  Task updated  Div. tasks deleted  by Dirk Eckhoff |
| 24 Sep 2022 | Task 1.2.2, Task 1.7.1  Task 1.3.2, Task 2.5.1  Task 1.9.4, -a. -b. | Task deleted  Task description inserted  Tasks merged and references added  by Dirk Eckhoff |
| 27 Sep 2022 | Task 1.9.4  Task 1.3.2 | References added  Task description inserted  by Dirk Eckhoff |
| 22 Sep 2023 | WG1 Tasks | Update by WG1 |
| 4 Sep 2024 | Task 1.1.2, 1.3.2, 1.8.3, 1.8.5, 1.8.6, 1.9.2, 1.9.3, 2.5.1, 2.5.2, 2.8.1, 2.8.2, 2.8.5, 2.8.6, 2.8.7, 2.8.8, 3.1.1, 3.8.3, 3.8.4, 3.8.5, 3.8.6, 3.8.7, 3.8.8 | General update on task names and numbers to match the Work Programme approved by C80 as well as updating “Purpose of this document” by Monica Sundklev |

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# TASK 1.1.2 Develop guidance for establishing a compliance and enforcement framework by participating ships

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| **Standard** | S1040 - Vessel Traffic Services | | |
| **Topic Area** | S1040.1 - VTS Implementation | | |
| **Task** | *Develop guidance for establishing a compliance and enforcement framework by participating ships.* | | |
| **Objectives of the task** | To provide guidance to assist Competent Authorities and VTS providers establish a compliance and enforcement framework in accordance with relevant international conventions and IMO instruments, IALA standards and national law and with respect to violations of VTS regulatory requirements. | | |
| **Expected outcome** | A new IALA Guideline specifying how to implement the practices associated with *Recommendation R0119 – Establishing, Planning and Implementing VTS* regarding establishing a compliance and enforcement framework with respect to violations of VTS regulatory requirements as described in IMO Resolution A.1158(32) (Refer to section 4.6 and 5.2.4).  The Guideline should be prepared in a form that assist authorities achieve their obligations associated with the compliance and enforcement of VTS regulations in a manner that:   * Encourages compliance with the legal basis for VTS that gives effect to SOLAS regulation V/12 in national law, particularly by building awareness and providing education for mariner and other maritime users; and * Ensures compliance and enforcement action is consistent, transparent and fair. | | |
| **Compelling need** | The IMO Resolution for VTS states, inter alia, that the competent authority should:   * *establish a regulatory framework for establishing and operating VTSs in accordance with relevant international conventions and IMO instruments, IALA standards and national law*; * *“establish a compliance and enforcement framework with respect to violations of VTS regulatory requirements.”*   IALA Standard 1040 Vessel Traffic Services references IALA Recommendations that specify the practices associated with implementing and establishing VTS in *Recommendation 0119 - Establishment of VTS IALA* and associated *Guideline 1150 – Establishing, Planning and Implementing VTS.*  There is currently no guidance available to assist Competent Authorities and VTS providers establish a compliance and enforcement framework for participating ships with respect to violations of VTS regulatory requirements in a globally harmonized manner. | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal**  G1 - Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.  **Strategy**  S1 - Develop standards suitable for direct citation by States, in areas deemed important by the General Assembly, and the related Recommendations and Guidelines.  S2 - Position IALA as the source of standards, knowledge, and expertise that will enable States to provide Marine Aids to Navigation, in accordance with relevant international obligations and recommendations.  S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment. | | |
| **Scope** | **In Scope:**  The proposed guideline is associated with the requirements for participating ships with the regulatory and legal framework established under national law (Refer to Section 6 of IMO Resolution IMO Resolution A.1158(32)). That is:   * The provision of reports or information required by VTS; and * Complying with the requirements and instructions given to the ship by VTS, unless contradictory safety and/or marine environment protection reasons exist. | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** (where appropriate). | Preparation of a new IALA Guideline regarding establishing a compliance and enforcement framework with respect to violations of VTS regulatory. Key milestones include:   |  |  | | --- | --- | | First draft of revised/new Resolution | Oct 2025 (VTS58) | | Draft completed and forwarded to Council for approval | Oct 2026 (VTS60) | | Draft approved by Council | Dec 2026 | | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  X  X  X | | |
| **Committee notes** | **Origins** |  | |
|  | **Agreed by session** | **TD#** | **Comments** |
| XX |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

# TASK 1.1.3 a) Develop guidance on the implications of Maritime Autonomous Surface Ships from (MASS) from a VTS perspective

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| **Standard** | S1040 - Vessel Traffic Services | | |
| **Topic Area** | S1040.1 - VTS Implementation [VTS Technologies] | | |
| **Task** | *Develop guidance on the implications of Maritime Autonomous Surface Ships (MASS) from a VTS perspective.* | | |
| **Objectives of the task** | 1. Provide guidance to assist authorities ensure the safety and efficiency of vessel movements in the VTS area, recognising:  * The advent of MASS and their interaction with conventional manned vessels within VTS areas. * The interaction process of autonomous vessels with conventional traffic. * The information flow between MASS and shore authorities; and * The related information exchange with conventional traffic. | | |
| **Expected outcome** | To provide a Guideline to assist VTS providers interact with vessel traffic, regardless of whether certain functions are remotely controlled or autonomously operated.  The guideline will also provide a framework to assist VTS providers prepare for the ever-increasing use of automation in the operation of ships, along with the anticipated increase in the use of remote control and autonomous operation of key functions for ships and therefore adapt their systems and processes accordingly, recognizing.  • The introduction of digital data and information exchange between MASS, conventional ships, VTS and allied services.  • The role of VTS in contributing to the safety and efficiency of navigation and the protection of the environment through:   * The provision of timely and relevant information on factors that may influence the ship's movements and assist on-board decision making. * The monitoring and management of ship traffic to ensure the safety and efficiency of ship movements. * Responding to developing unsafe situations | | |
| **Compelling need** | The concept of MASS is progressing rapidly with many tests and trials being conducted world-wide.  Safety is a primary concern for regulators and legislators and it will be necessary for legislators to achieve a balance in maintaining high safety standards as well as keeping up with rapid technological developments.  VTS will undoubtedly have a key role to play with MASS and the preparation of a discussion paper will provide a robust platform for the Committee to consider its implications and respond strategically in preparing appropriate IALA guidance. | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal**  **Strategy** | | |
| **Scope** | **In Scope:**  **I**mpacts – Strategic Operational Legal remit under 857  **Out of scope:**  *(Describe key items that are in scope/out of scope)* | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** (where appropriate). | Key milestones for completing the task include:   |  |  | | --- | --- | | VTS50 | Update the Task Register  Prepare Guiding Principles  Prepare first draft | |  | | VTS51-53 | Preparation of the discussion paper | | VTS 54 | Commence draft guideline | | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  x  x  x | | |
| **Committee notes** | **Origins** | * Proposed by Committee at VTS44 | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** | **VTS47** - shift from sessions 49-50 to 50-51  **VTS50** - Task commenced and a review and update of Task register completed | |

# TASK 1.1.3 b) Assess the implications associated with the advent of MASS on IALA Standards specifically related to the establishment and operation of VTS (scoping exercise)

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| **Standard** | S1040 - Vessel Traffic Services | | |
| **Topic Area** | S1040.1 - VTS Implementation [and several others: Operations / Communications / Additional Services / Data and Information management / VTS Technologies / Data Models and Data Encoding] | | |
| **Task** | *Assess the implications associated with the advent of MASS on IALA Standards specifically related to the establishment and operation of VTS.* | | |
| **Objectives of the task** | To ensure IALA Standards specifically related to the establishment and operation of VTS evolve with the advent of MASS and continue to provide an effective framework for achieving worldwide harmonisation of VTS through a scoping exercise to:   * Identify guidance requiring updating/amendment. * Identify additional guidance required with the advent of MASS. * Provide a framework for planning the preparation of amended/new guidance that reflects the conclusions described in the *Discussion Paper - Implications of MASS from a VTS perspective*, as amended, particularly with regards to the assumptions, implications and expected timeframes. | | |
| **Expected outcome/s** | A mechanism to achieve:   * Consensus on the implications associated with the advent of MASS on IALA Guidance related to VTS and * IALA Standards specifically related to the establishment and operation of VTS reflect the advent of MASS and changes to associated IMO instruments and continue to provide an effective framework for achieving worldwide harmonisation of VTS. | | |
| **Compelling need** | The IALA *Current Drivers and Trends* document (*link to document*) serves as guidance as to how IALA can reach its strategic goals with a long-term horizon and perspective. Nine trends and developments have been identified to be monitored closely and when required, appropriate action should be taken such as an adjustment of the priorities and/or structure of the organization, including:  *“Development of autonomous, automated and unmanned vessels”*  Completion of the scoping exercise provides a sound basis for ensuring IALA guidance specifically related to VTS keeps pace with the advent of MASS | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal**  G1 - Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.  **Strategy**  S1 - Develop standards suitable for direct citation by States, in areas deemed important by the General Assembly, and the related Recommendations and Guidelines.  S2 - Position IALA as the source of standards, knowledge, and expertise that will enable States to provide Marine Aids to Navigation, in accordance with relevant international obligations and recommendations.  S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment. | | |
| **Scope** | **In Scope:**  Align with the assumptions and implications for VTS described in the *Discussion Paper – Implications of MASS from a VTS Perspective*.  All IALA guidance documents specifically related to the establishment and operation of VTS.  Providing a plan to for reviewing/updating appropriate guidance documents with the advent of MASS and changes to IMO instruments associated with MASS operations for the Committee’s consideration and approval by Council.  **Note:** - *It is intended that all updated/ new guidance would be undertaken through work programme tasks approved by the Committee/Council.* | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** (where appropriate). | Identify guidance documentation requiring updating/amendment.  Identify additional guidance documentation required with the advent of MASS  Provide a plan to for reviewing/updating appropriate guidance documents with the advent of MASS and changes to IMO instruments.  Key milestones include:   |  |  | | --- | --- | | Commence Task | Oct 2021 (VTS51) | | First Draft completed for approval by the Committee | Mar 2022 (VTS52) | | A plan of the review/update of guidance document required in the advent of MASS and associated changes to IMO instruments. | Oct 2026 ( VTS 60 | | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  x  x  x  x | | |
| **Committee notes** | **Origins** |  | |
|  | **Agreed by session** | **TD#** | **Comments** |
| 51 |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

# TASK 1.1.4 Develop guidance on delineating the VTS area

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| **Standard No** | S1040 - Vessel Traffic Services | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1040.1 - VTS Implementation | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  G1 - Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.  G2 - All coastal states have contributed to a sustainable and efficient global network of Marine Aids to Navigation through capacity building and the sharing of expertise.  **Strategy:**  S1 - Develop standards suitable for direct citation by States, in areas deemed important by the General Assembly, and the related Recommendations and Guidelines.  S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment. | | |
| **Task**  *(Proposed task name for new tasks)* | *Develop guidance on delineating a VTS area* | | |
| **Objectives of the task** | To assist contracting governments and competent authorities for VTS implementing a framework and procedures for establishing and delineating a VTS where the volume of traffic or the degree of risk justifies such services. | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* | A new guideline or including a new section/annex in G1150 on considerations on delineating a VTS area. | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* | A VTS area is a delineated, formally declared area for which the VTS provider is authorized to deliver vessel traffic services. It is therefore important that the borders of the VTS area are clearly stated and that there are detailed guidance on what to consider when such an area should be established or changed.  At the IALA webinar on the new IMO Resolution A.1158(32) – Guidelines for Vessel Traffic Services on the 17 Feb. 2022, there were questions raised where to find guidance on what to consider when a VTS area should be established and how big or small such an area should be.  G1150 on Establishing, Planning and Implementing a VTS is describing on what to consider when a VTS is to be established. However, although some data to consider is mentioned, it is of a high level and it gives no guidance on the details of how the data should be assessed, e.g. where the borders should be best placed or how a VTS area may be subdivided in sub-areas or sectors. It should also give guidance on how to formally declare the service area of the VTS. | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**   1. IMO Resolution A.1158(32) Guidelines for Vessel Traffic Services 2. IALA Standards and associated recommendations, guidelines and model courses specifically related to the establishment and operation of VTS and risk management toolbox. 3. Considerations only to the delineation of the VTS area | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include:   |  |  | | --- | --- | | Review Task (separate GL or included in G1150?)  Draft guidance structure and collect information to be included | VTS57 | | Preparing of draft guidance | VTS58 | | Guidance finalised and forwarded to Council for approval | VTS59 | | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  x  x  x | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | IALA webinar 17 Feb 2022 *(name of file)*  ? *(name of organisation)*  Yes No  X | |
|  | **Working Group** | **WG#** 1 | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 1.1.5 Develop guidance to assist Competent Authorities for VTS establish an appropriate policy and regulatory framework to meet their obligations

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| **VTS COMMITTEE WORK PLAN 2023-2027** | | | |
| **Standard No** | S1040 Vessel Traffic Services | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1040.1 - VTS Implementation | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  G1 - Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.  G2 - All coastal states have contributed to a sustainable and efficient global network of Marine Aids to Navigation through capacity building and the sharing of expertise.  **Strategy:**  S1 - Develop standards suitable for direct citation by States, in areas deemed important by the General Assembly, and the related Recommendations and Guidelines.  S2 - Position IALA as the source of standards, knowledge, and expertise that will enable States to provide Marine Aids to Navigation, in accordance with relevant international obligations and recommendations.  S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment. | | |
| **Task**  *(Proposed task name for new tasks)* | *Develop guidance to assist competent authorities for VTS establish an appropriate policy and regulatory framework to meet their obligations.* | | |
| **Objectives of the task** | To provide guidance to assist competent authorities for VTS establish an appropriate policy and regulatory framework to meet their obligations and also to ensure that VTS providers meet theirs. | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* | Recommendation and/or guideline to assist competent authorities for VTS:   * Establish a regulatory framework for establishing and operating VTS in accordance with relevant international conventions and IMO instruments, IALA standards and national law. * Authorize VTS providers and establish appropriate policy and regulatory mechanisms to ensure VTS providers continue to meet their obligations. * Ensure that VTS training is approved and VTS personnel are certified. * Demonstrate conformance with IALA standards and associated recommendations, guidelines, and model courses. * Establish a compliance and enforcement framework with respect to violations of VTS regulatory requirements.   It is envisaged that such guidance would complement IALA Recommendation R0119 - Establishment of a VTS but focusing on the roles and responsibilities of a competent authority for VTS. | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* | Existing IALA guidance for the establishment and operation of VTS is largely focused on the delivery of VTS that is the VTS provider.  Little guidance is currently available describing practices to assist competent authorities for VTS:   * meet their obligations as described in IMO Resolution A.1158(32) Guidelines for Vessel Traffic Services, and * demonstrate conformance with IALA standards and associated recommendations, guidelines, and model courses specifically related to the establishment and operation of VTS. | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**   1. IMO Resolution A.1158(32) Guidelines for vessel traffic services 2. IALA Standards and associated recommendations, guidelines and model courses specifically related to the establishment and operation of VTS. | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Preparation of a new IALA Guideline to assist competent authorities for VTS meet their obligations. Key milestones include:   |  |  | | --- | --- | | Review Task  Prepare guiding principles for completing the task  Draft skeleton for the guidance document | VTS54 | | IALA Workshop/Seminar on the roles and responsibilities of competent authorities for VTS to assist preparation of the guidance | Q1 2025 | | Draft guidance prepared | VTS56 | | Guidance finalized and forwarded to Council for approval | VTS57 | | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  x  x  x  x | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | Developed at VTS53 *(name of file)*  AMSA & VTS Chair *(name of organisation)*  Yes No  X | |
|  | **Working Group** | **WG# 1** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 1.2.1 Develop guidance for digital route exchange within VTS operations

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| **VTS COMMITTEE WORK PLAN 2023-2027** | | | |
| **Standard No** | S1040 – Vessel Traffic Services | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1040.2 – VTS Operations | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  **Strategy:** | | |
| **Task**  *(Proposed task name for new tasks)* | *Develop guidance for digital route exchange within VTS operations* | | |
| **Objectives of the task** |  | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* |  | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* |  | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include: | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  x  x  x | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No | |
|  | **Working Group** | **WG#** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 1.3.1 Develop guidance on VTS Digital Communications (operational aspects)

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| **Standard** | S1040 - Vessel Traffic Services | | |
| **Topic Area** | S1040.3 - VTS Communications | | |
| **Task** | *Develop guidance on VTS Digital Communications (operational aspects)* | | |
| **Objectives of the task** | To provide guidance for digital interaction between VTS, ships (whether conventional or autonomous) and remote control centres, including:   * How VTS can achieve its purpose by providing information or issuing advice, warnings and instructions by digital means or supported by digital means. * How ships can meet their reporting requirements by digital means. | | |
| **Expected outcome** | New IALA Guideline on VTS Digital Communications  The purpose of the Guideline is to specify how to implement the practices associated with Recommendations R0127 - VTS Operations and R1012 ‐ VTS Communications for the interaction between VTS and ships by digital means and in a manner that enables both the participating ship and the VTS to meet their obligations associated with the IMO resolution for VTS and associated IALA Standards.  In particular, the purpose of the guidance is to harmonize digital communications between VTS, ships and Remote Control Centres through standard message structure, format and elements. It aims to provide the framework for:   * How ships can meet their reporting requirements by digital means. * How VTS interacts with and manages ship traffic to ensure the safety and efficiency of ship movements by providing information or issuing advice, warnings and instructions as deemed necessary by digital means or supported by digital means. * Ensuring communications convey the same meaning and intent, irrespective of whether provided by VHF voice or digitally. | | |
| **Compelling need** | The IMO Resolution for VTS states, inter alia, that:   * *“1.4 In complying with these Guidelines, Contracting Governments should take account of applicable IMO instruments and refer to the relevant international guidance prepared and published by appropriate international organizations.”* * *“3.2 To achieve its purpose, a VTS should provide information or issue advice, warnings and instructions as deemed necessary.”* * *“7.5 Effective harmonized data exchange and information-sharing is fundamental to overall operational efficiency and safety. VTS providers are encouraged to make use of automated reporting where possible.”*   IALA Guideline 1141 - Operational Procedures for Delivering VTS states that:  *“Where the VTS provides information in digital format, processes and procedures on digital information exchange should be established. This information may include, for example, the use of AIS messages to provide information on weather, virtual AtoN's or the exchange of route information between vessels and VTS.*  *The procedures should include a description of the digital information delivered and the communication means used for the information exchange.”*  There is currently no guidance available for establishing a global framework for standardising:   * How ships can meet their reporting requirements by digital means * How VTS can achieve its purpose in providing information or issuing advice, warnings and instructions as deemed necessary, by digital means.   Development of this guidance will also assist:   * Manufacturers in developing ship and shore applications for digitally exchanging data * VTS authorities prepare standardized operating procedures for digital communications * The Committee to further develop the Technical Services and S-212 VTS Digital Information product specification for encoding VTS Information based on the IHO S-100 data model framework. | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal**  G1 - Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.  **Strategy**  S1 - Develop standards suitable for direct citation by States, in areas deemed important by the General Assembly, and the related Recommendations and Guidelines.  S2 - Position IALA as the source of standards, knowledge, and expertise that will enable States to provide Marine Aids to Navigation, in accordance with relevant international obligations and recommendations.  S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment. | | |
| **Scope** | **In Scope:**  The proposed guideline is associated with the obligations for participating ships and VTS under IMO Resolution A.1158(32) and national law for:   * Ships providing reports or information from ships required by VTS; and * VTS achieving its purpose in providing information or issuing advice, warnings and instructions as deemed necessary.   The guidance should be consistent with the following guidance to ensure communications convey the same meaning and intent, irrespective of whether provided by VHF voice or digitally:   * *G1089 – Provision of a VTS* * *G1141 - Operational Procedures for Delivering VTS* * *G1132 - VTS Voice Communications and Phraseology*   **Out of scope:**   * VTS digital information exchange with allied services and other stakeholders that is not related the navigation of the vessels. | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** (where appropriate). | Preparation of a new IALA Guideline for VTS Digital Communication and Interaction. Key milestones include:   |  |  | | --- | --- | | First draft | Oct 2021 (VTS51) | | Draft completed and forwarded to Council for approval | Mar 2025 (VTS57) | | Draft approved by Council | December 2025 | | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  x  x  x  x | | |
| **Committee notes** | **Origins** | * 2018-22 Work Programme | |
|  | **Agreed by session** | **TD#** | **Comments** |
| XX |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

# TASK 1.3.2 Review and update IMO Resolution A.918(22) on Standard Marine Communication Phrases (SMCP)

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard No** | S1040 - Vessel Traffic Services | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1040.3 - VTS Communications | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  G1 - Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.  **Strategy:**  S5 - Harmonise the information structure and communications for future navigation by creating standards, and by cooperation with other international organisations, to achieve worldwide interoperability of shore and ship systems.  S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment. | | |
| **Task**  *(Proposed task name for new tasks)* | *Review and update IMO Resolution A.918(22) on Standard Marine Communication Phrases (SMCP).* | | |
| **Objectives of the task** | Review and recommend updates on IMO Resolution A.918(22) IMO Standard Marine Communication Phrases General, section A1/6 Vessel Traffic Services (VTS) Special Phrases and Glossary 2 VTS Special Terms | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* | Review and recommend updates on IMO Resolution A.918(22) IMO Standard Marine Communication Phrases sections relating to VTS communication.  In time note to IMO on the foreseen update of the Res. A.918(22) | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* | IMO is taking into consideration document NCSR 9/23/2 which proposes to review and amend SMCP, taking into account the changing conditions and practices in modern seafaring. IALA should prepare recommendations to review and amend the SMCP regarding VTS communication and glossary.  Align SMCP with the new IMO Resolution A.1158(32) Guidelines for Vessel Traffic Services with references to the original VTS service types.  Align SMCP with the revised G1132 VTS Voice Communications and Phraseology.  Update SMCP considering new technology and practices, and to improve the format of the document for ease of reference. | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  Sections relating to VTS General, A1/6 and Glossary VTS Special Terms.  Providing a plan for reviewing/updating A1/6 A.918(22) as it relates to VTS, in preparation for any changes to the aforementioned IMO Resolution.  **Out of scope:**  Sections not relating to VTS communications. | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include:   |  |  | | --- | --- | | Identify VTS words and phrases not aligned with A.1158(32) and G1132. | VTS 54 | | Provide a plan for reviewing/ updating A.918(22) VTS related sections. | VTS 55 | |  |  | | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  x  x  x  x | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No | |
|  | **Working Group** | **WG# 1** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 1.8.3 Develop guidance on the provision of Marine AtoN for autonomous vehicle/vessel operations (Maritime Autonomous Surface Ship, MASS)

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard No** | S1010 - Marine AtoN planning and service requirements | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1010.2 - Aids to Navigation planning | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  **Strategy:** | | |
| **Task**  *(Proposed task name for new tasks)* | *Develop guidance on the provision of Marine AtoN for autonomous vehicle/vessel operations (Maritime Autonomous Surface Ship, MASS)* | | |
| **Objectives of the task** |  | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* |  | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* |  | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include:   |  |  | | --- | --- | |  |  | |  |  | |  |  | | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60 | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No | |
|  | **Working Group** | **WG#** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 1.8.4 Develop a guideline on quality management system for VTS

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard** | S1010 - Marine AtoN planning and service requirements | | |
| **Topic Area** | S1010.5 – Quality Management | | |
| **Task** | *Develop a guideline on quality management system for VTS* | | |
| **Objectives of the task** | * Guide and assist VTS organizations to formulate standard and unified quality management system * Sort out the relationship between VTS quality management system and relevant IALA documents * Facilitate audit and evaluation by Member States * Promote VTS sustainable development   Joint participation of Technology (WG2) and VTS training (WG3) is required | | |
| **Expected outcome** | An IALA guideline providing guidance on quality management system for VTS | | |
| **Compelling need** | * VTS lacks special quality management system guidelines. IALA recommendation R0132 and guideline G1052 guide member states to establish the quality management system of their national navigation aids, but the two documents only list the framework. As a part of Aids to Navigation, VTS organization is relatively independent from other Aids to Navigation management organizations in procedure management. There are more than 50 IALA recommendations and guidelines related to VTS. It is necessary to establish independent quality management system guideline for VTS. * Quality management system is an effective tool for efficient operation and continuous improvement of VTS, which helps to provide coordinated and unified VTS services worldwide. * When IMO carries out VTS audit on its member states or the third-party organization evaluates the VTS organization, it requires the VTS organization to establish a quality management system that meets the requirements | | |
| **Strategic Alignment** | Goal  G1 – Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.  Strategy  S1 - Develop standards suitable for direct citation by States, in areas deemed important by the General Assembly, and the related Recommendations and Guidelines.  S2 - Position IALA as the source of standards, knowledge, and expertise that will enable States to provide Marine Aids to Navigation, in accordance with relevant international obligations and recommendations. | | |
| **Scope** | **In Scope:**   * Determine the structure and content of the guideline * Draft guideline and align the guideline with the new IALA document structure | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | * To prepare a new guideline, provide a ‘road map” to assist review of structure and content of the guideline.   Key milestones include:   |  |  | | --- | --- | | Scope Task and prepare skeleton + draft document prepared | VTS 54 | | Draft document prepared | VTS 55 | | Draft guidance reviewed by VTS Committee and forwarded to Council for approval | VTS 56 |   . | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  x  x  xx | | |
| **Committee notes** | **Origins** | Requested by VTS Committee at ??? | |
|  | **Agreed by session** | **TD# 1** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

# TASK 1.8.5 Enhancing the safety and efficiency of navigation around offshore installations

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard No** | S1010 - Marine AtoN planning and service requirements | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1010.4 - Risk Management | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  **Strategy:** | | |
| **Task**  *(Proposed task name for new tasks)* | *Enhancing the safety and efficiency of navigation around offshore installations*  (ARM lead) | | |
| **Objectives of the task** |  | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* |  | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* |  | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include: | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60 | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No | |
|  | **Working Group** | **WG#** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 1.8.6 Harmonization of VTS data elements to be revised/updated

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard No** | S1070 - Information services | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1070.1 - Data models and data encoding | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  **Strategy:** | | |
| **Task**  *(Proposed task name for new tasks)* | *Harmonization of VTS data elements to be revised/updated* | | |
| **Objectives of the task** |  | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* |  | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* |  | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include: | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  X  X  X  X  X | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No | |
|  | **Working Group** | **WG#** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 1.9.1 Consider relevant VTS documents to be revised/updated

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard No** | S1040 – Vessel Traffic Services | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | N/A | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  **Strategy:** | | |
| **Task**  *(Proposed task name for new tasks)* | *Relevant VTS documents to be revised/updated:* | | |
| **Objectives of the task** |  | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* |  | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* |  | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include: | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  x  x  x  x  x  x  x | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No | |
|  | **Working Group** | **WG#** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 1.9.2 Continuous update of the VTS Manual

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard** | S1040 - Vessel Traffic Services | | |
| **Topic Area** | N/A | | |
| **Task** | *Continuous update of the VTS Manual* | | |
| **Objectives of the task** | Update and publish the VTS Manual after Council decisions so the Manual is available electronically and updated at all times.  *(Describe the objective/s of the task)* | | |
| **Expected outcome** | *(Describe the expected outcome: e.g. Recommendation, Guideline or Other)* | | |
| **Compelling need** | *(Describe briefly why this task should be included in the Work Programme)* | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal**  **Strategy** | | |
| **Scope** | **In Scope:**  **Out of scope:**  *(Describe key items that are in scope/out of scope)* | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** (where appropriate). |  | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  x  x  x  x  x  x  x | | |
| **Committee notes** | **Origins** |  | |
|  | **Agreed by session** | **TD# 1** | **Comments** |
|  |  | Completed at VTS49  Input to PAP |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

# TASK 1.9.3 Review the VTS Questionnaire and conduct a digital global survey

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard** | S1040 - Vessel Traffic Services | | |
| **Topic Area** | N/A | | |
| **Task** | *Review the VTS Questionnaire and conduct a digital global survey* | | |
| **Objectives of the task** | 1. To update the results presented in the report from the first survey released at the VTS 2016 Symposium as a means to assist IALA and its members develop VTS related guidance in the 2018-22 Work Programme and contribute to the safety and efficiency of navigation through the operation of VTS. 2. To facilitate achieving greater global understanding and consistency in the establishment and operation of VTS in accordance with internationally approved guidelines. 3. To identify emerging trends in the delivery of VTS globally. 4. Develop procedures for the ongoing management and conduct of the global VTS Questionnaire   *(Describe the objective/s of the task)* | | |
| **Expected outcome** | The release of an updated report on VTS at the 2020 VTS Symposium.  *(Describe the expected outcome: e.g. Recommendation, Guideline or Other)* | | |
| **Compelling need** | The number of VTSs being implemented by contracting governments / competent authorities is growing substantially each year and accurate statistics on the regulatory frameworks, policies and procedure being adopted will facilitate IALA to maintain a suite of up-to-date and relevant guidance documents (Recommendations and procedures) that will:   * Assist members give effect to their obligations under SOLAS Chapter V Regulation 12, and IMO Resolution A.857(20) Vessel Traffic Services; and * Ensure the implementation and operation of VTS in a globally harmonised manner and in a manner that will minimise any possible confusion to masters transiting between VTSs.   The first Questionnaire successfully achieved its aim of gathering information:   * To gain a common understanding of the delivery of VTS worldwide. * To harmonise service quality, training and operating procedures worldwide. * To contribute to the improvement of VTS related IALA documentation.   *(Describe briefly why this task should be included in the Work Programme)* | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal**  G2 - All coastal states have contributed to a sustainable and efficient global network of Marine Aids to Navigation through capacity building and the sharing of expertise.  **Strategy**  S3 - Coordinate the further development of Marine Aids to Navigation, taking into account evolving operational and functional requirements, new techniques, new technologies and sustainability. | | |
| **Scope** | **In Scope:**   * Review / update the stand-alone Questionnaire * Maintain the database structure from the 2016 survey to enable changes to be evaluated an reported   **Out of scope:**  *(Describe key items that are in scope/out of scope)* | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** (where appropriate). | Key milestones for completing the task include:   * WG1 to review/update the stand-alone questionnaire for VTS * WG2 and 3 to comment and to make additional input * VTS Committee to finalize questionnaire and to forward to Council for approval * Web based questionnaire and associated database updated * VTS Committee (through IALA Secretariat) to send out VTS questionnaire to Competent Authorities   Result of the questionnaire to be presented at VTS Symposium (August 2020) | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  X  X  X  X  X  X  X | | |
| **Committee notes** | **Origins of the Task** | Proposed by Committee at VTS43.  Consideration should be given to updating the Questionnaire results every two year | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** | At VTS47 prolonged to 47 &48  Pending data base management | |

# TASK 1.9.4 Proceed with the “living document” on “Future VTS”, including emerging technologies and Human Element

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard** | S1040 - Vessel Traffic Services | | |
| **Topic Area** | N/A | | |
| **Task** | *Proceed with the “living document” on “Future VTS”, including emerging technologies and human element”.* | | |
| **Objectives of the task** | 1. To prepare a document to assist planning for VTS into the future and in a manner that facilitates global harmonisation of the delivery of enhanced services and is consistent with international law. 2. To identify and document key emerging developments and issues that may challenge the existing international framework for VTS. 3. To identify and document possible mechanisms to address key emerging developments and issues.   *(Describe the objective/s of the task)* | | |
| **Expected outcome** | A “living document” on “Future VTS” that is reviewed/updated on a regular basis. *(Describe the expected outcome: e.g. Recommendation, Guideline or Other)* | | |
| **Compelling need** | To provide a reference document to:   * Assist with the planning of future work programme tasks * Ensure the Committee remains cognisant of emerging trends and technologies that will impact on VTS; and * Facilitate communicating the future direction of VTS to stakeholders   *(Describe briefly why this task should be included in the Work Programme)* | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal**  G1 – Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.  **Strategy**  S2 - Position IALA as the source of standards, knowledge, and expertise that will enable States to provide Marine Aids to Navigation, in accordance with relevant international obligations and recommendations. | | |
| **Scope** | **In Scope:**  Consider the task proposals “VTS50-9.6.2 Suggestions on the establishment of public communication network +VDES fusion communication mode.” and ” VTS49-8.6.1 Proposal on the technology of Integration between ultra-range CCTV and VTS”  **Out of scope:**  *(Describe key items that are in scope/out of scope)* | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** (where appropriate). | Key milestones for completing the task include:   |  |  | | --- | --- | | VTS50 | Update the Task Register  Prepare Guiding Principles  Prepare first draft | |  | | VTS51/60 | Ongoing Review of draft document | |  |  | | | |
| **Expected numbers of sessions for completion** | *Session number:*  *54 55 56 57 58 59 60*  x  x  x  x  x  x  x | | |
| **Committee notes** | **Origins** | * Proposed by Committee at VTS43 | |
|  | **Agreed by session** | **TD# 1** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** | Start session postponed due to VTS48 cancellation  Start session commenced at VTS50 | |

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| --- | --- | --- | --- |
|  | **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |

# TASK 2.5.1 Revise G1177 on portrayal of VTS information

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard No** | S1040 - Vessel Traffic Services | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1040.5 - VTS Data and Information Management | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal**  G1- Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.  **Strategy**  S2 - Position IALA as the source of standards, knowledge, and expertise that will enable States to provide Marine Aids to Navigation, in accordance with relevant international obligations and recommendations.  S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment. | | |
| **Task**  *(Proposed task name for new tasks)* | *Revise G1177 on portrayal of VTS information* | | |
| **Objectives of the task** | Update and provide common operational and technical guidance on portrayal for VTS | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* | Updated Guideline on VTS Portrayal | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* | In view of Task on ARM to update G1105 and the need to address consistency in R0125 and R1014 (which WG1 has completed during VTS53 to produce a new Recommendation and a new Guideline). WG2 will take this new Guideline and revise it using the significant work undertaken by WG2 during the 2018 to 2023 WP to ensure it address VTS. | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:** VTS portrayal  **Out of scope:** Areas covered by ARM | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include: | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  X  X  X | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No | |
|  | **Working Group** | **WG# 2** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 2.5.2 Develop technical service specifications for VTS

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard No** | S1040 - Vessel Traffic Services [1070 – Information services] | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1040.3 - VTS data and information management | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:** G1 – Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.  **Strategy:** S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment. | | |
| **Task**  *(Proposed task name for new tasks)* | *Develop technical service specifications for VTS* | | |
| **Objectives of the task** | To develop technical service specifications for digital data exchange between VTS and other entities - primarily ships.  G1128 guideline ‘ Specification of e-navigation technical services’ should be used | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* | A number of technical service specifications | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* | The technical service specifications will enable VTS providers and related stakeholders such as ship equipment manufacturers to implement technical services and thus enable them to exchange digital information securely and reliably. This will bring VTS into the digital era with all the associated benefits including support from the future of MASS. | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | In Scope: Technical service specifications for VTS  Out of scope:  Technical service specifications for services that may be provided by VTS – but inherently belong to a different domain. This could be navigational warnings, water levels, AtoN information etc.  Also, data-models and portrayal will not be considered (but feedback to work done on these items may be relevant to provide). | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | The task will work on developing technical service specifications for VTS using a number of existing guidelines and standards.  The main guideline will be G1128 'Specification of e-navigation technical services'. This provides the overall guideline for developing the specifications which is aligned with the template for technical services provided in IMO MSC.467(101) 'Guidance on the definition and harmonization of the format and structure of Maritime Services in the context of e-navigation'.  Other relevant guidelines/standards include   * G1157 'Web Service Based S-100 Data Exchange' * IEC 63173-2 'Secure exchange and communication of S-100 based products' (SECOM) * IALA G1143 'Unique identifiers for maritime resources' * IALA G1161 'Guideline on platforms to support the provision of maritime services in the context of e-navigation   Furthermore – the technical services will be depending on the VTS S-100 product specification with regard to data-model and portrayal.  The process (milestones) may be:   * Identity technical services * Finalise first (simple) technical service * perform testing * Continue specification of all identified services * Test * Complete specifications | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  ?  ?  ?X  X  XXX  X  X  X | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*    PAP    *(name of organisation)*  Yes No  X | |
|  | **Working Group** | **WG#**   2 | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |

# TASK 2.6.1 Consider updating G1111-1 to include guidance on VTS Management Information Systems

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard** | S1040 - Vessel Traffic Services | | |
| **Topic Area** | S1040.6 - VTS Technologies | | |
| **Task** | *Consider updating G1111-1 to include guidance on VTS Management Information Systems.* | | |
| **Objectives of the task** | Develop relevant guidance documents for the VTS-MIS system, and add VTS-MIS performance and requirements guidelines to the G1111 framework to provide a unified reference for the performance and functional requirements of MIS subsystems between different VTSs.   * Collect and sort out the MIS function requirements of different countries and regions; * Determine a basic framework of MIS functional requirements, which can be divided into basic functions and optional functions; * Consider the requirements of regional VTS data sharing and standardize relevant standards. | | |
| **Expected outcome** | A revised IALA Guideline G1111-1 Producing Requirements for Core VTS Systems and Equipment | | |
| **Compelling need** | * The VTS-MIS subsystem facilitates the analysis and visual presentation of VTS-related data and information, can assist on duty, simplify the VTS workflow, reduce work pressure, and improve work efficiency. * As an important part of the VTS system, the MIS subsystem is irreplaceable in terms of data collection and processing. At present, IALA has no guidelines on the VTS-MIS system. * Different water areas and different management modes have different requirements for MIS systems. In practice, the MIS systems of many VTS products cannot meet the duty needs of local VTS centers. * Many regional VTSs have requirements for collaborative operation, but lack the data sharing and linkage support of MIS. | | |
| **Strategic Alignment** | **Goal**  G1 - Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.  **Strategy**  S1 - Develop standards suitable for direct citation by States, in areas deemed important by the General Assembly, and the related Recommendations and Guidelines.  S2 - Position IALA as the source of standards, knowledge, and expertise that will enable States to provide Marine Aids to Navigation, in accordance with relevant international obligations and recommendations.  S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment. | | |
| **Scope** | **In Scope:**   * Determine the structure and content of the guideline. * Draft guidelines and make them consistent with the new IALA document structure * Related to the implementation and operation of VTS   **Out of scope:**   * *(Describe key items that are in scope/out of scope)* | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Preparation of a new IALA Guideline to provide a reference for the establishment of a standardized and unified VTS-MIS system and incorporate it into the IALA document  Key milestones for completing the task include:   |  |  | | --- | --- | | Clear tasks and prepare the framework | Mar 2022 (VTS52) | | Prepare draft documents | Oct 2022 (VTS53) | | Refine the draft document | Oct 2023 (VTS54) | | The draft guidelines are reviewed by the VTS committee and forwarded to the council for approval | Mar 2024 (VTS55) | | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  X  X  X | | |
| **Committee notes** | **Origins** |  | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

# TASK 2.8.1 Develop a Product Specification S-212 on VTS Digital Information

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard** | S1070 - Information Services | | |
| **Topic Area** | S1070.1 - Data models and data encoding | | |
| **Task** | *Develop a Product Specification S-212 on VTS Digital information* | | |
| **Objectives of the task** | 1. Evaluate descriptions of PS in development (gap analysis) 2. Determine relevant scenarios, in correspondence with WG1, for additional VTS data-elements and features 3. Develop a VTS product specification | | |
| **Expected outcome** | A VTS product specification | | |
| **Compelling need** | The development in VTS is moving towards an increased involvement in digital traffic management and electronic exchange of information. The relevant data must be standardized and harmonized with the VTS-data model.. | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal**  G1 – Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards*.*  **Strategy**  S2 - Position IALA as the source of standards, knowledge, and expertise that will enable States to provide Marine Aids to Navigation, in accordance with relevant international obligations and recommendations.  S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment. | | |
| **Scope** | **In Scope:**  Only features and data-elements that are relevant for VTS will be taken into account.  Developing a VTS PS task will require extensive resources, and considering the limited time, the task should be split into 3 phases. Phase 1 information exchange between ship to shore and shore to ship. Phase 2 will focus on inter VTS information exchange, and phase 3 will focus information exchange with VTS and allied services.  The scope of this task is only for phase 1.  **Out of scope:**  Features of product specifications not related to VTS.  *(Describe key items that are in scope/out of scope)* | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** (where appropriate). | Work is ongoing and will continue inter-sessionally and during VTS51 | | |
| **Expected numbers of sessions for completion** | Session number:  45 46 47 48 49 50 51  X  X  X  X  X  X | | |
| **Committee notes** | **Origins** | * Carried over from 2014-18 Work Programme * Task commenced at VTS45 | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** | Task name change at VTS46  Task name change at VTS47  At VTS47 prolonged to 48 &49  Liaison note to ARM and ENAV on S212 referencing to other S100 product specification | |

# TASK 2.8.2 Review and update Recommendation R0145 on the Inter-VTS Exchange Format (IVEF) Service

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard** | S1070 - Information Services | | |
| **Topic Area** | S1070.1 - Data models and data encoding | | |
| **Task** | *Review and update Recommendation R0145 on The Inter-VTS Exchange Format (IVEF) Service* | | |
| **Objectives of the task** | Make IVEF available as a product specification. | | |
| **Expected outcome** | The outcomes will comprise a Recommendation, Guideline and a Data Model.  Output to be a revised Recommendation and associated Guideline including a technical service and/or product specification S-210. | | |
| **Compelling need** | *(Describe briefly why this task should be included in the Work Programme)* | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal**    **Strategy** | | |
| **Scope** | **In Scope:**  **Out of scope:**  *(Describe key items that are in scope/out of scope)* | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** (where appropriate). | Create a data model and corresponding product specification of the current services of IVEF. | | |
| **Expected numbers of sessions for completion** | Session number:  45 46 47 48 49 50 51  X  X | | |
| **Committee notes** | **Origins** | Suggested by WG2 at VTS44 | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** | Start session postponed to 50 due to VTS48 cancellation  Task commenced during VTS50 | |

# TASK 2.8.5 Full review of A-126, G1084 and other AIS associated documentation

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard No** | S1020 - AtoN design and delivery | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1020.2 - Design, implementation and maintenance | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  **Strategy:** | | |
| **Task**  *(Proposed task name for new tasks)* | *Full review of A-126, G1084 and other AIS associated documentation*  (ARM lead) | | |
| **Objectives of the task** |  | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* |  | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* |  | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include: | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60 | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No | |
|  | **Working Group** | **WG#** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 2.8.6 Develop Recommendation and Guideline on the use of drones for AtoN inspection and maintenance

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard No** | S1020 - AtoN design and delivery | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1020.2 - Design, implementation and maintenance | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  **Strategy:** | | |
| **Task**  *(Proposed task name for new tasks)* | *Develop Recommendation and Guideline on the use of drones for AtoN inspection and maintenance*  (ARM lead) | | |
| **Objectives of the task** |  | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* |  | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* |  | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include: | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60 | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No | |
|  | **Working Group** | **WG#** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 2.8.7 Develop guidance on Digital VHF communication

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard No** | S1060 - Digital communication technologies | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1060.3 - Harmonized maritime connectivity | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  **Strategy:** | | |
| **Task**  *(Proposed task name for new tasks)* | *Develop guidance on Digital VHF communication*  (DTEC lead) | | |
| **Objectives of the task** |  | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* |  | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* |  | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include: | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60 | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No | |
|  | **Working Group** | **WG#** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 2.8.8 Develop guidance on the symbology and portrayal of AtoN for charting

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard No** | S1070 - Information services | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1070.3 - Terminology, symbology and portrayal | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  **Strategy:** | | |
| **Task**  *(Proposed task name for new tasks)* | *Develop guidance on the symbology and portrayal of AtoN for charting*  (ARM lead) | | |
| **Objectives of the task** |  | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* |  | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* |  | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include: | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60 | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No | |
|  | **Working Group** | **WG#** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 2.9.1 Consider relevant VTS documents to be revised/updated

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard No** | S1040 - Vessel Traffic Services | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | N/A | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  **Strategy:** | | |
| **Task**  *(Proposed task name for new tasks)* | *Relevant VTS documents to be revised/updated:* | | |
| **Objectives of the task** |  | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* |  | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* |  | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include: | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60 | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No | |
|  | **Working Group** | **WG# 2** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 3.1.1 Develop guidance for dealing with stress or trauma in VTS operations

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard No** | S1040 - Vessel Traffic Services | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1040.1 - VTS Implementation | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  G1 – Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards  **Strategy:**  S2 - Position IALA as the source of standards, knowledge, and expertise that will enable States to provide Marine Aids to Navigation, in accordance with relevant international obligations and recommendations.  S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment. | | |
| **Task**  *(Proposed task name for new tasks)* | *Develop guidance for dealing with stress or trauma in VTS operations* | | |
| **Objectives of the task** | * Define critical incidents that are likely to lead to trauma in VTS personnel * If possible seek assistance from a mental health in the workplace organization to determine the appropriate assistance to be provided * Seek input from members regarding existing programs in use * Align guidance with developing documents on Human Factors and Safety Culture | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* | New IALA guideline in establishing support for VTS Personnel that have handled a significantly stressful or traumatic incident | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* | Mental health and the effects of trauma on a person’s mental health have recently gained recognition and importance, in particular in the workplace.  Many professions can list their own worst case scenarios and VTS is not immune. It is important that there are support programs in place to assist VTS personnel deal with their trauma, preferably one incident at a time. | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  Mental health and injuries in the work place documentation, in particular as it applies in the maritime domain and other operations centres (i.e emergency operations).  Expert advice in the field of mental health should be sought.  The proposed guideline should be aligned with existing Guideline G1045 – Staffing levels at VTS Centres, and G#### on Human Factors and Ergonomics in VTS.  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include:  Preparation of a new IALA Guideline for Dealing with stress or trauma in VTS operations  Key milestones include:   * March 2023 (VTS54) --Scope Task and prepare skeleton. * October 2023 (VTS55) -- Draft document prepared * March 2024 (VTS56) -- Draft document improved * October 2024 (VTS57) -- Draft document improved * March 2025 (VTS58) -- Draft guidance reviewed by VTS Committee and forwarded to Council for approval.   \*Timing is based on completion and approval of the Human Factors guidance | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  x  x  x  x  x | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  Requested at VTS51 *(name of organisation)*  Yes No  x | |
|  | **Working Group** | **WG# 3** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 3.4.1 Develop guidance on aptitudes required by VTS operators

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard** | S1040 - Vessel Traffic Services | | |
| **Topic Area** | S1040.4 - VTS auditing and assessing | | |
| **Task** | *Develop guidance on aptitudes required by VTS operators* | | |
| **Objectives of the task** | * Define aptitude and aptitude/psychometric testing * Determine the aptitudes that are consistently demonstrated by effective VTS operators * Consider methods to assess those aptitudes * Develop guidance on what aptitudes should be assessed and how the assessments could be completed | | |
| **Expected outcome** | A new guideline specifying the aptitudes required by VTS operators and how to assess for those aptitudes taking into consideration national legislation and requirements. | | |
| **Compelling need** | IALA G1156 section 5.1.2 indicates that VTS authority should consider testing for personal aptitude, attributes and overall suitability.  Many VTS operations have identifiable skills or aptitudes that VTS operators require in order to be successful in the work environment.  Aptitude testing can be a valuable tool in the recruitment and hiring process. They are a method of objectively screening for high caliber candidates. Candidates with the appropriate aptitudes are more likely to succeed in all aspects of training and on the job. | | |
| **Strategic Alignment** | Goal  G1 – Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.  Strategy  S2 - Position IALA as the source of standards, knowledge, and expertise that will enable States to provide Marine Aids to Navigation, in accordance with relevant international obligations and recommendations.  S3 - Coordinate the further development of Marine Aids to Navigation, taking into account evolving operational and functional requirements, new techniques, new technologies and sustainability.  S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment. | | |
| **Scope** | **In Scope:**  The proposed guideline would be of assistance to VTS providers and Training Organizations in the recruitment process. It should include aptitudes that necessary to complete the curriculum provided in VTS model courses.  The guidance should take into consideration the developing guidance on the Implications of MASS from a VTS perspective and the living document on “Future VTS”. | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Preparation of a new IALA Guideline on the Aptitudes required by VTS Operators.  Key milestones include:   * March 2022(VTS 52) --Scope Task and determine the aptitudes that are demonstrated by effective VTS operators * September 2022(VTS 53) – Consider possible assessment methods and complete first draft of the document * September2023(VTS 54) – Improve Draft document * March 2023 (VTS 55) – Improve draft document * September 2024 (VTS56) -- Complete Draft guideline, submit for review by VTS Committee and forwarding to Council for approval. | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  -  X  X  X  X  -  X | | |
| **Committee notes** | **Origins** | Requested by VTS Committee at [VTS51] | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

# TASK 3.8.1 Revision of G1103 on Train the Trainer

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard** | S1050 - Training and Certification | | |
| **Topic Area** | S1050.1 - Training and Assessment | | |
| **Task** | *Revision of G1103 on Train the Trainer* | | |
| **Objectives of the task** | Initial review – determine if there remains a need for IALA to provide Guidance on “Train the trainer” for VTS.  Based on this evaluation, there will be one of two options:   * Recommend that the existing Guideline be withdrawn, or * Review the current document, including the purpose and scope to clarify the requirement for the document. This could include identifying if the document could:   + Be broader - include focus for anyone developing / updating training courses not just the focused training organizations   + Provide guidance on best practices   + Confirm the type of document to be provided – Guideline or model course * Confirm the link of this course to the IALA Model Course V-103/4 – VTS On-the-Job Training Instructor. | | |
| **Expected outcome** | Withdrawn IALA Guideline; Revised IALA Guideline or New IALA Model Course | | |
| **Compelling need** | The existing Guideline was last updated in 2013 and needs to be reviewed to ensure that it remains fit for purpose.  In the review of the IALA VTS Training, IALA G1017 and G1014 questions were raised as to the requirement for IALA guidance on ‘Train the Trainer’. | | |
| **Strategic Alignment** | Goal  G1 – Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.  Strategy  S2 - Position IALA as the source of standards, knowledge, and expertise that will enable States to provide Marine Aids to Navigation, in accordance with relevant international obligations and recommendations.  S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment. | | |
| **Scope** | **In Scope:**   * Determine whether there remains to be current need for IALA to maintain Guidance on “Train the trainer” by:   + Reviewing the current purpose and scope of document   + How it relates to the model courses   + Identifying whether Training organizations and VTS providers still have a need for such guidance. * If it is determined that there remains a need for the document, verify if this is a Guideline or a Model Course * Once level of document is agreed, develop a document that reflects the current best practice for ‘train the trainer’. | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | * Evaluation complete to whether there remains to be current need for IALA to maintain Guidance on “Train the trainer”. * If the Committee agrees that there is a need for such guidance, then:   + Identify the type of document required   + Review the current purpose and scope   + Identify content that is out of date   + Identify new content to add.   + Ensure the best practices are captured within the guidance   + Confirm the link of this course to the IALA Model Course V-103/4 – VTS On-the-Job Training Instructor.   + Prepare revised document   + Submit revised documentation to Council for approval.   Key milestones include:   * VTS53 – Commence evaluation * VTS54 – Evaluation completed * VTS55 – Commence work on the task (if required) * VTS56 -- Draft documents prepared (if required) * VTS57 -- Finalise revision (if required)   \*Additional time will be needed if test materials are to be developed | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  X  X  X  X  X | | |
| **Committee notes** | **Origins** | Requested by VTS Committee at [VTS51] | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

# TASK 3.8.2 Develop guidance for remote training in VTS

| **VTS Committee Work Programme 2023-2027** | | | |
| --- | --- | --- | --- |
| **Standard** | S1050 - Training and Certification | | |
| **Topic Area** | S1050.1 - Training and Assessment | | |
| **Task** | *Develop guidance for remote training in VTS* | | |
| **Objectives of the task** | * Define the elements within remote training [note work in G1014] * Develop guidance to assist VTS training organizations in the implementation and provision of VTS training using remote training methods * Ensure VTS training remains relevant and effective, using up to date training methods and methodologies. * Establish links to existing IALA documentation | | |
| **Expected outcome** | A new IALA guideline providing guidance to Competent authorities, VTS providers and training organizations in regard to remote training. | | |
| **Compelling need** | There are many facets to remote learning. Many terms are used to describe some or all aspects of it. The COVID-19 pandemic has led to a significant increase in the use of online training, e-learning and virtual presentations. VTS training has been part of that transition.  The IALA World-Wide Academy in *Input paper VTS51-11.4.1* indicated they had received several requests from competent authorities and accredited training organizations with respect to how the delivery of online VTS training could be approved. Input was provided and included in the revision to Guideline G1014.  New guidance to augment the information about remote learning that is included in VTS model courses is needed to assist VTS training organizations and providers in the use of technology in the implementation and ongoing provision of VTS training. | | |
| **Strategic Alignment** | Goal  G1 – Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.  [G2 – include the sustainability goal]  Strategy  S2 - Position IALA as the source of standards, knowledge, and expertise that will enable States to provide Marine Aids to Navigation, in accordance with relevant international obligations and recommendations.  S3 - Coordinate the further development of Marine Aids to Navigation, taking into account evolving operational and functional requirements, new techniques, new technologies and sustainability.  S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment. | | |
| **Scope** | **In Scope:**  The proposed guideline is associated with, and will provide amplifying information for all VTS model courses including pre-learning activities, training delivery, self-study and assessment.  It will be similar to Guideline G1027 – Simulation in VTS Training as it will provide the details needed by Training organizations and VTS providers to develop and provide VTS training. | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Preparation of a new IALA Guideline for Remote training in VTS.  Key milestones include:   * October 2022 (VTS53) --Scope Task and prepare skeleton. * March 2023 (VTS54) – Prepare Draft guideline * October 2023 (VTS 55) – Improve Draft guideline * March 2024 (VTS56) – Improve Draft guideline * October 2024 (VTS57) – Complete Draft guideline, submit for review by VTS Committee and forwarding to Council for approval.   \* timing is based on the review of V103/1 being completed and approved | | |
| **Expected numbers of sessions for completion** | Session number:  52 53 54 55 56 57 58  X  X  X  x  X  - | | |
| **Committee notes** | **Origins** | Requested by VTS Committee at [VTS 51] | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

# TASK 3.8.3 Develop a model course on incident response and crisis coordination

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| --- | --- | --- | --- |
| **Standard No** | S1050 - Training and Certification | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1050.1 - Training and Assessment | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  **Strategy:** | | |
| **Task**  *(Proposed task name for new tasks)* | *Develop a model course on incident response and crisis coordination*  (ARM lead) | | |
| **Objectives of the task** |  | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* |  | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* |  | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include: | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60 | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No | |
|  | **Working Group** | **WG#** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 3.8.4 WWA lesson plans to review

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard No** | S1050 - Training and Certification | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1050.1 - Training and Assessment | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  **Strategy:** | | |
| **Task**  *(Proposed task name for new tasks)* | *WWA lesson plans to review*  (ENG lead) | | |
| **Objectives of the task** |  | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* |  | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* |  | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include: | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60 | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No  x | |
|  | **Working Group** | **WG# 3** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 3.8.5 Training in implementation of digital solutions (data analytics & maritime informatics)

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard No** | S1050 - Training and Certification | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1050.1 - Training and Assessment | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  **Strategy:** | | |
| **Task**  *(Proposed task name for new tasks)* | *Training in implementation of digital solutions (data analytics & maritime informatics)*  (DTEC lead) | | |
| **Objectives of the task** |  | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* |  | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* |  | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include: | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  x  x  x  x  x | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No  x | |
|  | **Working Group** | **WG# 3** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 3.8.6 Revision of G1027 on Simulation in VTS training

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard** | S1050 - Training and Certification | | |
| **Topic Area** | S1050.1 - Training and Assessment | | |
| **Task** | *Revision of G1027 on Simulation in VTS training* | | |
| **Objectives of the task** | To update G1027 on Simulation in VTS training to ensure that it provides an effective document for training organizations and VTS providers to use when planning, designing, developing and conducting simulation exercises for VTS. | | |
| **Expected outcome** | Revised IALA Guideline | | |
| **Compelling need** | The existing Guideline was last reviewed in 2005. It requires updating to reflect changes in VTS and VTS simulation training technology to ensure that it continues:   * To provide guidance for training organizations and VTS authorities to develop and deliver VTS simulation training in a globally harmonized manner. * Supports the suite of model courses | | |
| **Strategic Alignment** | Goal  G1 – Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.  Strategy  S2 - Position IALA as the source of standards, knowledge, and expertise that will enable States to provide Marine Aids to Navigation, in accordance with relevant international obligations and recommendations.  S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment. | | |
| **Scope** | **In Scope:**   * Review of structure and content of the Guideline * Review guidance to ensure it provides training organizations and VTS providers with current best practices when developing/delivering simulation training for VTS exercises. * Confirm that the guidance provided is in line with revised VTS documentation, including revised IMO Resolution on VTS and revised IALA VTS Model Courses. | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | * Review of G1027 to identify:   + content may be out of date or inconsistent with other guidance or model courses,   + content or guidance that may be appropriate to be included but is not currently included. * Review document in line with revised G1014, V-103 model courses, other relevant IALA documents. * Prepare revised Guideline * Submit revised documentation to Council for approval.   Key milestones include:   * March 2022(VTS 52) – Commence work on the task / gather input * October 2022(VTS 53) – Continue review draft documents prepared * March 2023(VTS 54) – Draft revised document * October 2023 (VTS 55) – Finalise revised document   \*Additional time will be needed if test materials are to be developed | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  x  x  X  x | | |
| **Committee notes** | **Origins** | Requested by VTS Committee at [VTS51] | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

# TASK 3.8.7 Revision of IALA VTS Model Courses c) C0103-5 VTS Revalidation Process

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard No** | S1050 - Training and Certification | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1050.1 - Training and Assessment | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  **Strategy:** | | |
| **Task**  *(Proposed task name for new tasks)* | Revision of IALA VTS Model Course C0103-5 VTS Revalidation Process | | |
| **Objectives of the task** |  | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* |  | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* |  | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include: | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  x  x  x | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No | |
|  | **Working Group** | **WG# 3** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 3.8.8 Consider including English Language competency requirements in VTS operations

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| --- | --- | --- | --- |
| **Standard No** | S1050 - Training and Certification | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | S1050.2 - Accreditation, competency, certification and revalidation | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  G1 – Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.  **Strategy:**  S2 - Position IALA as the source of standards, knowledge, and expertise that will enable States to provide Marine Aids to Navigation, in accordance with relevant international obligations and recommendations.  S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment. | | |
| **Task**  *(Proposed task name for new tasks)* | *Consider English Language Competency requirements in VTS operations* | | |
| **Objectives of the task** | * Assess current English language competency guidance * Determine English language competency requirements for all stages of VTS operations and a VTS Operators career * Determine options for guidance on the application of standard phraseology in VTS for all VTS Personnel. * Consider use of, or development of, VTS specific English competency assessments for all VTS Personnel.   Joint participation of Operations (WG1) and Technology (WG2) may be required. | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* | Updated IALA guidance on English language proficiency and competence level assessments.  New guidance on development of [or provision of] a VTS specific English language assessment. | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* | Existing IALA documentation provides a level of English language competency to be achieved in some model courses. V-103/1 requires the International English Language Test System (IELTS), level 5 or its equivalent, and V-103/2 requires IELTS level 6, or its equivalent. These levels were established several years ago.  A study initiated by the Korean Coast Guard that assessed the English language competence of existing VTS operators requires review throughout the career of the VTSO. The author of the study has made several recommendations and has indicated an interest in working with WG3 on further developments. | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  A presentation (or workshop) by the author of the study put forth by the Korean Coast Guard.  All proposed documentation and guidance will align with Guideline G1132 VTS Voice Communications and Phraseology or G1156 ???  Within the guidance, develop a generic approach to language proficiency and standard communication phrases [training, testing approaches].  [further input from Republic of Korea]  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include:  Revision of existing IALA Guidance on use of English Language (V-103/1 and V-103/2)  Preparation of a new IALA guideline  Key milestones include:   * March 2022(VTS 52) --Scope Task and workshop on VTS specific English language assessments (if available) * October 2022(VTS 53) -- Draft documents prepared * March 2023(VTS 54) – Improve Draft documents * October 2024(VTS55) -- Improve Draft documents * March 2025 (VTS 56) -- Draft guidance reviewed by VTS Committee and forwarded to Council for approval.   \*Additional time will be needed if test materials are to be developed | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  x  x  x | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | VTS53-6.3.1  Korea Coast Guard *(name of organisation)*  Yes No  x | |
|  | **Working Group** | **WG#** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

# TASK 3.9.1 Consider relevant VTS documents to be revised/updated

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| --- | --- | --- | --- |
| **Standard No** | S1050 - Training and Certification / S1040 – Vessel Traffic Services | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2027)* | N/A | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  **Strategy:** | | |
| **Task**  *(Proposed task name for new tasks)* | *Relevant VTS documents to be revised/updated:* | | |
| **Objectives of the task** |  | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* |  | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* |  | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  **Out of scope:** | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include: | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60  x  x  x  x  x  x  x | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No | |
|  | **Working Group** | **WG# 3** | **Comments** |
| **Agreed by VTS Cte** | *(VTS Cte Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |

