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| VTS Committee  PROPOSED Task Register  For the  2018 – 2022 Work Programme |
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Revisions to the IALA Document are to be noted in the table prior to the issue of a revised document

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| **Date** | **Page / Section Revised** | **Requirement for Revision** |
| XX September 2017 | First Draft | To be adopted at VTS44 for submission to Council |
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Purpose of this Document

The purpose of this document is to maintain a register of VTS Committee Work Programme Tasks for 2018 - 2022 which describes:

* The current status of each Task
* How the Task is linked to IALA’s Strategic Alignment
* Key changes to the Task during its development

# Overall status of the VTS Committee 2018-2022 Work Programme after VTS45:

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| **Task** | | **Start Session** | | **Planned End Session** | | **Revised End Session** | | | **Progress Indicator** | | | | | | | | **Status Overview** |
| **Green** | | | **Yellow** | | **Red** | | |  |
| **TD#1 – Operations** | |  |  | | | |  |  | | |  | |  | | | |  |
| 1.1.4. Produce a Guideline on Maritime Service Portfolios for VTS |  | | |  |  | | | |  |  | | | | |  |  | |
| 1.3.1. Produce a Recommendationand associatedGuideline on VTS Communications |  | | |  |  | | | |  |  | | | | |  |  | |
| 1.4.2. Review/update/provide input to IMO on Resolution A.857(20) Guidelines for VTS |  | | |  |  | | | |  |  | | | | |  |  | |
| 1.X.X. Review and update V-119 on the Implementation of Vessel Traffic Services |  | | |  |  | | | |  |  | | | | |  |  | |
| 1.X.X. Develop procedures for the ongoing management and conduct of the Global VTS Questionnaire |  | | |  |  | | | |  |  | | | | |  |  | |
| 1.X.X. Prepare a “living document” on “Future VTS”, including emerging technologies and human element |  | | |  |  | | | |  |  | | | | |  |  | |
| 1.X.X. Update and publish the VTS Manual and develop related procedures for its future management |  | | |  |  | | | |  |  | | | | |  |  | |
| 1.X.X. Develop guidance on how to develop a safety culture in VTS |  | | |  |  | | | |  |  | | | | |  |  | |
| 1.X.X. Update Guideline 1110 on Decision Support Tools for VTS Personnel take into account emerging concepts and technologies. |  | | |  |  | | | |  |  | | | | |  |  | |
| 1.X.X. Prepare guidance on planning, implementing, operating and managing VTS in developing countries |  | | |  |  | | | |  |  | | | | |  |  | |
| 1.X.X Review Guideline 1101 Auditing and assessing VTS with a view to create a new recommendation |  | | |  |  | | | |  |  | | | | |  |  | |
| 1.X.X Develop guidance on the implications of maritime autonomous surface ships from a VTS perspective |  | | |  |  | | | |  |  | | | | |  |  | |
| 1.X.X Develop guidance on the development and implementation of VTS related MSP’s other than MSP 1, 2 and 3 |  | | |  |  | | | |  |  | | | | |  |  | |
| **TD#2 – Technology** |  | | |  |  | | | |  |  | | | | |  |  | |
| 2.2.1. Develop Guidance on the technical acceptance of a VTS system |  | | |  |  | | | |  |  | | | | |  |  | |
| 2.3.1. Develop a Guideline on the technical interface between VTS systems and the systems of other stakeholders |  | | |  |  | | | |  |  | | | | |  |  | |
| 2.X.X. Review Recommendation V-128 on Operational and Technical Performance of VTS Systems and Guideline 1111 on Preparation of Operational and Technical Performance Requirements for VTS Systems |  | | |  |  | | | |  |  | | | | |  |  | |
| 2.X.X. Review the Recommendation V-145 on the Inter-VTS Exchange Format (IVEF) Service with a view to incorporating it as a product specification under S-200 |  | | |  |  | | | |  |  | | | | |  |  | |
| 2.X.X Develop a data model for digital information services for VTS (e.g. route exchange) |  | | |  |  | | | |  |  | | | | |  |  | |
| 2.X.X Produce a guideline related to the Recommendation for the portrayal of VTS information |  | | |  |  | | | |  |  | | | | |  |  | |
| 2.X.X Produce a Recommendation on Cyber-Security |  | | |  |  | | | |  |  | | | | |  |  | |
| **TD#3 –Training** |  | | |  |  | | | |  |  | | | | |  |  | |
| 3.1.X. VTS awareness for navigating officers |  | | |  |  | | | |  |  | | | | |  |  | |
| 3.1.X. Develop guidance on human factors and ergonomics in VTS |  | | |  |  | | | |  |  | | | | |  |  | |
| 3.X.X Develop guidance on the management of a VTS (in conjunction with WG1&2) |  | | |  |  | | | |  |  | | | | |  |  | |
| 3.X.X Review and update IALA Guideline 1014 on the Accreditation and Approval Process for VTS Training |  | | |  |  | | | |  |  | | | | |  |  | |
| 3.X.X Review ,modernise and reformat V-103 on the Standards for Training and Certification of VTS Personnel and its associated Model Courses. |  | | |  |  | | | |  |  | | | | |  |  | |

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TASK 1.X.X Produce a Guideline on Maritime Service Portfolios for VTS

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| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | VTS Operations | | |
| **Task** | 1.1.4. Produce a Guideline on Maritime Service Portfolios for VTS | | |
| **Objectives of the task** | * Identification of present and potential services for VTS which may be covered by the Maritime Service Portfolio in accordance with its definition by IMO under  e-navigation; * Identification and defining servicing areas for VTS Maritime Service Folio’s based on user requirements and technical capabilities; * Development of a set of criteria and conditions for competent VTS authorities to decide on the harmonized implementation and operation of Maritime Service Portfolio’s; * Contribute from a VTS perspective to the further development of e-navigation, including the delivery of product specifications for Maritime Service Portfolio’s;   *(Describe the objective/s of the task)* | | |
| **Expected outcome** | * Contribution to the further development of e-navigation, establishing the role and position of VTS in this concept; * Guideline providing guidance and advise on how to determine the need for new Maritime Service Portfolio for VTS and their implementation including the determination of servicing areas and coverage areas for relevant technical infrastructure; * Review of relevant IALA Guidelines, Recommendations and standards, where appropriate;   *(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**  G1 - Aids to navigation systems and related services, including e- Navigation, Vessel Traffic Services, and emerging technologies, are harmonised through international cooperation and the provision of standards  **Strategy**  S2 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, legislative frameworks and public expectations;  S3 - Harmonise the information structure, Maritime Service Portfolios, and communications for e-Navigation by creating standards, and by cooperation with other IGOs, to achieve worldwide interoperability of shore and ship systems, including IMO sustainability goals for a maritime transport system  **Priority**  P3 - Develop guidance on positioning, communications, Maritime Service Portfolios, and data modelling for e-Navigation;  P6 - Develop a forward plan for future delivery of aids to navigation systems and related services including VTS, taking account of developments in technology and changing needs. | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Carried over from 2014-18 Work Programme * Commenced at VTS40 | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 1.X.X Produce a Recommendation and associated Guideline on VTS CommunicationS

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| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | VTS Communications | | |
| **Task** | Produce a Recommendation and associated Guideline on VTS Communications | | |
| **Objectives of the task** | *(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**  G1 - Ensure that aids to navigation systems and related services, including e‐Navigation, Vessel Traffic Services, and emerging technologies, are harmonised through international cooperation and the provision of standards.  **Strategy**  S2 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, legislative frameworks and public expectations.  **Priority**  P4 - Develop guidance for the delivery of VTS, including communications, human factors, qualifications, and training. | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Carried over from 2014-18 Work Programme * Commenced at VTS39 | |
|  | **Agreed by session** | **TD#** | **Comments** |
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|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

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

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| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | VTS Operations | | |
| **Task** | Review/update/provide input to IMO on Resolution A.857(20) Guidelines for VTS  *(Propose a name for the task)* | | |
| **Objectives of the task** | To contribute to the review of IMO Resolution A.857(20) Guidelines for Vessel Traffic Services to ensure it continues to provide an effective IMO instrument to assist competent authorities implement and deliver VTS globally in a consistent and harmonised manner.  *(Describe the objective/s of the task)* | | |
| **Expected outcome** | * A documented review of the Resolution in terms of its capacity to contribute to safety of life at sea, safety and efficiency of navigation and protection of the marine environment, noting changing expectations, needs, new and emerging technologies, and * Where potential amendments / changes are identified, documented clear and concise reasons for the change and the advantages/needs for progressing them.   *(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/s** –  G1 - Ensure that aids to navigation systems and related services, including e‐Navigation, Vessel Traffic Services, and emerging technologies, are harmonised through international cooperation and the provision of standards  **Strategy/s** –  S1 Develop standards suitable for direct citation by States in areas deemed important by the General Assembly, and continue to improve strong governance, including document policy and procedure for standards.  S2 Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, legislative frameworks and public expectations.  **Priority/s** –  P2 Deliver a limited suite of high level standards suitable for direct citation by States and by other international organisations.  P4 Develop guidance for the delivery of VTS, including communications, human factors, qualifications, and training. | | |
| **Scope** | **In Scope:**   * Review * **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** |  | |
|  | **Agreed by session** | **TD#** | **Comments** |
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|  | **Approved by Council** | *(Council Session)* | *(Date)* |

TASK 1.X.X update Recommendation V-119 on the Implementation of Vessel Traffic Services

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| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | VTS Operations | | |
| **Task** | Update Recommendation V-119 on the Implementation of Vessel Traffic Services  *(Propose a name for the task)* | | |
| **Objectives of the task** | To update IALA Recommendation V-119 on the Implementation of Vessel Traffic Services to ensure it provides an effective document to assist Competent Authorities and VTS Authorities to implement and operate VTS in a globally harmonised manner.  *(Describe the objective/s of the task)* | | |
| **Expected outcome** | The release of an updated IALA Recommendation and associated Guideline/s consistent with the IALA document structure.  *(Describe the expected outcome: e.g. Recommendation, Guideline or Other)* | | |
| **Compelling need** | The existing Recommendation is in need of a major update to reflect changes in VTS since it was last updated in 2009 to ensure it continues:   * To provide appropriate guidance for Competent Authorities and VTS Authorities to implement and operate VTS in a globally harmonised manner consistent with SOLAS Chapter V Regulation 12, and IMO Resolution A.857(20) Vessel Traffic Services * To minimise any possible confusion to masters transiting between VTSs   Key changes the revised guidance needs to reflect includes:   * The new IALA document Structure * Revised / updated IALA guidance produced since 2009, such as:   + Recommendation V-128 on Operational and Technical Performance Requirements for VTS Equipment   + Recommendation O-134 on the IALA Risk Management Tool for Ports and Restricted Waterways * IALA guidance released since 2009, such as:   + Guideline 1101 on Auditing and Assessing VTS   + Guideline 1089 on Provision of Vessel Traffic Services (INS, TOS & NAS)   + Guideline 1115 on Preparing for an IMO Member State Audit Scheme (IMSAS) on Vessel Traffic Services   Further, many national members have expressed concerns that the existing document is cumbersome and difficult to understand/give effect to in the implementation of VTS.  *(Describe briefly why this task should be included in the Work Programme)* | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal/s** –  G1 - Ensure that aids to navigation systems and related services, including e‐Navigation, Vessel Traffic Services, and emerging technologies, are harmonised through international cooperation and the provision of standards  **Strategy/s** –  S1 Develop standards suitable for direct citation by States in areas deemed important by the General Assembly, and continue to improve strong governance, including document policy and procedure for standards.  S2 Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, legislative frameworks and public expectations.  **Priority/s** –  P1 Transform the IALA product line by redefining and restructuring existing documentation to meet the future needs of the organisation, including document content, the approval process, and accessibility  P2 Deliver a limited suite of high level standards suitable for direct citation by States and by other international organisations.  P4 Develop guidance for the delivery of VTS, including communications, human factors, qualifications, and training. | | |
| **Scope** | **In Scope:**   * Review of structure and content of the Recommendation * To align the revised guidance with the new IALA document structure * Ensure the revised guidance reflects all applicable IALA Guidance associated with the implementation and operation of VTS * Evalulate the need for the guidance to include any additional components such as:   + International / Regulatory framework for VTS   + The ongoing delivery of VTS to be included   **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). | * Review of V-119 to identify content which is dated/inconsistent with other Recommendations and Guidelines and content that is not currently included but should be * Prepare revised Recommendation consistent with new IALA document structure and associated Guideline/s * Submit revised documentation to Council for approval | | |
| **Expected numbers of sessions for completion** | Session number:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Proposed by Committee at VTS43 * V-119 has not been updated since 2009. | |
|  | **Agreed by session** | **TD#** | **Comments** |
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|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 1.X.X Develop procedures for the ongoing management and conduct of the Global VTS Questionnaire

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| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | Not Applicable | | |
| **Task** | Develop Procedures for the Ongoing Management and Conduct of the Global VTS Questionnaire | | |
| **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. In particular, the information will facilitate achieving greater global understanding and consistency in the establishment and operation of VTS in accordance with internationally approved guidelines. 2. Identify emerging trends in the delivery of V TS globally.   *(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** - G1: Ensure that aids to navigation systems and related services, including e-Navigation, Vessel Traffic Services, and emerging technologies, through international cooperation and the provision of standards are harmonised  **Strategy** - S2: Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, legislative frameworks and public expectations.  **Priority** - P4: Develop guidance for the delivery of VTS, including procedures, compliance, communications, human factors, qualifications, and training | | |
| **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 2016) | | |
| **Expected numbers of sessions for completion** | Session number:  45 46 47 48 49 50 51 | | |
| **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** |
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|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 1.X.X Prepare a “living document” on “Future VTS”, including emerging technologies and human element

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| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | Not Applicable | | |
| **Task** | 1.X.X. Prepare a “living document” on “Future VTS”, including emerging technologies and human element” | | |
| **Objectives of the task** | 1. To identify and document key emerging issues that will challenge the existing international framework for VTS and possible mechanisms to address them. 2. Identify emerging trends in the delivery of V TS globally.   *(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** | *(Describe briefly why this task should be included in the Work Programme)* | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal** -  **Strategy** - conventions, legislative frameworks and public expectations.  **Priority** - | | |
| **Scope** | **In Scope:**   * xxxx   **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:   * xxxx   Result of the questionnaire to be presented at VTS Symposium (August 2016) | | |
| **Expected numbers of sessions for completion** | Session number:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Proposed by Committee at VTS43 | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 1.X.X Update and publish the VTS Manual and develop related procedures for its future management

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| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | Not Applicable | | |
| **Task** | 1.X.X. Update and publish the VTS Manual and develop related procedures for its future management | | |
| **Objectives of the task** | *(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** -  **Priority** - | | |
| **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). | Result of the questionnaire to be presented at VTS Symposium (August 2016) | | |
| **Expected numbers of sessions for completion** | Session number:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** |  | |
|  | **Agreed by session** | **TD#** | **Comments** |
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|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 1.X.X Develop guidance on how to develop a safety culture in VTS

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| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | ???? | | |
| **Task** | 1.X.X. Develop Guidance on How to Develop a Safety Culture in VTS | | |
| **Objectives of the task** | *(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** -  **Priority** - | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | Conclusion from VTS Symposium 2016 | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 1.X.X Update Guideline 1110 on Decision Support Tools for VTS Personnel

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | ???? | | |
| **Task** | 1.X.X. Update Guideline 1110 on Decision Support Tools for VTS Personnel | | |
| **Objectives of the task** | *(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** -  **Priority** - | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | Conclusion from VTS Symposium 2016 | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

**TASK 1.X.X Prepare Guidance on planning, implementing, operating and managing VTS in developing countries**

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard** | 1040 - Vessel Traffic Services | | |
| **Topic Area** | Vessel Traffic Services Implementation | | |
| **Task** | 1.X.X. Prepare guidance to assist developing countries plan, implement, operate and manage Vessel Traffic Services. | | |
| **Objectives of the task** | To provide guidance to assist developing countries implement and operate Vessel Traffic Services effectively and in a manner consistent with their international obligations under SOLAS.  *(Describe the objective/s of the task)* | | |
| **Expected outcome** | A Model Course on Preparing to Implement Vessel Traffic Services  *(Describe the expected outcome: e.g. Recommendation, Guideline or Other)* | | |
| **Compelling need** | The development and implementation of VTS is rapidly being embraced by developing countries and it has become evident that there is a need to provide guidance to assist these countries in preparing to implement Vessel Traffic Services effectively and in a manner consistent with their international obligations under SOLAS.  *(Describe briefly why this task should be included in the Work Programme)* | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal**  Goal 1 (G1) - Ensure that aids to navigation systems and related services, including e-Navigation, Vessel Traffic Services, and emerging technologies, are harmonised through international cooperation and the provision of standards.  Goal 2 (G2) - All coastal states have contributed to an efficient global network of aids to navigation and services for the safety of navigation, through capacity building and the sharing of expertise.  **Strategy**  G1 S2 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, legislative frameworks and public expectations.  G2 S2 Continue to develop capacity building activities to improve the global operations and management of aids to navigation systems and related services including VTS.  **Priority**  P4 Develop guidance for the delivery of VTS, including communications, human factors, qualifications, and training. - | | |
| **Scope** | **In Scope:**  All IALA documents related to 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). | To prepare a concise document that provides a ‘road map” to assist developing countries reference and incorporate IALA documentation when planning, implementing and operating VTS.  Key milestones include:   * October 2017 – Form intersessional working group to develop the guidance via email and GoToMeeting. * March 2018 – Draft document prepared * June 2018 – Revision of draft version * October 2018 – Draft guidance reviewed by VTS Committee with a view to forwarding to Council for approval. | | |
| **Expected numbers of sessions for completion** | *Session number:*  *45 46 47 48 49 50 51*  X | | |
| **Committee notes** | **Origins** | Requested by WWA at VTS43 | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 1.X.X Review Guideline 1101 Auditing and assessing VTS with a view to create a new recommendation

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | Auditing and Assessing VTS | | |
| **Task** | 1.X.X. Review Guideline 1101 Auditing and assessing VTS with a view to create a new Recommendation and associated Guideline/s | | |
| **Objectives of the task** | *(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** -  **Priority** - | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | Requested by WG1 and WG2 at VTS43 | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 1.X.X Autonomous vessels and implications for VTS – A scoping Paper

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | ???? | | |
| **Task** | 1.X.X. Autonomous Vessels and implications for VTS – A Scoping Paper” | | |
| **Objectives of the task** | 1. To prepare a scoping document on the adoption of autonomous vessels and .how 2. Identify emerging trends in the delivery of V TS globally.   *(Describe the objective/s of the task)* | | |
| **Expected outcome** | A scoping document to assist IALA and VTS authorities consider the implications associated with the emerging development of autonomous vessels with regards to VTS.  *(Describe the expected outcome: e.g. Recommendation, Guideline or Other)* | | |
| **Compelling need** | The ….  *(Describe briefly why this task should be included in the Work Programme)* | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal** - …:  **Strategy** - ….  **Priority** - ….g | | |
| **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). | Key milestones for completing the task include: | | |
| **Expected numbers of sessions for completion** | Session number:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Proposed by Committee at VTS44 | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 1.X.X Develop guidance on the development and implementation of VTS related MSP’s other than MSP 1, 2 and 3

| **VTS Committee Work Programme 2018-2022** | | | |
| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** |  | | |
| **Task** | Develop guidance on the development and implementation of VTS related MSP’s other than MSP 1, 2 and 3 | | |
| **Objectives of the task** | *(Describe the objective/s of the task)* | | |
| **Expected outcome** | *(Describe the expected outcome: e.g. Recommendation, Guideline or Other)* | | |
| **Compelling need** | The ….  *(Describe briefly why this task should be included in the Work Programme)* | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal** - …:  **Strategy** - ….  **Priority** - ….g | | |
| **Scope** | **In Scope:**   * Review….   **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: | | |
| **Expected numbers of sessions for completion** | Session number:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Proposed by Committee at VTS44 | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 2.X.X Develop Guidance on the technical acceptance of a VTS system

| **VTS Committee Work Programme 2018-2022** | | | |
| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | VTS Technology | | |
| **Task** | 2.X.X. Develop Guidance on the technical acceptance of a VTS system | | |
| **Objectives of the task** | *(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** -  **Priority** - | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Carried over from 2014-18 Work Programme * Task commenced at VTSXX | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 2.X.X Develop a Guideline on the technical interface between VTS systems and the systems of other stakeholders

| **VTS Committee Work Programme 2018-2022** | | | |
| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | VTS Technology | | |
| **Task** | 2.3.1. Develop a Guideline on the technical interface between VTS systems and the systems of other stakeholders | | |
| **Objectives of the task** | *(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** -  **Priority** - | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Carried over from 2014-18 Work Programme * Task commenced at VTSXX | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 2.X.X Review Recommendation V-128 on Operational and Technical Performance of VTS Systems and Guideline 1111 on Preparation of Operational and Technical Performance Requirements for VTS Systems

| **VTS Committee Work Programme 2018-2022** | | | |
| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | VTS Technology | | |
| **Task** | 2.X.X. Review Recommendation V-128 on Operational and Technical Performance of VTS Systems and Guideline 1111 on Preparation of Operational and Technical Performance Requirements for VTS Systems | | |
| **Objectives of the task** | *(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** -  **Priority** - | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Suggested at VTS43 | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 2.X.X Review and update Recommendation V-145 on the Inter-VTS Exchange Format (IVEF) Service with a view to incorporating it as a product specification under S-200

| **VTS Committee Work Programme 2018-2022** | | | |
| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | VTS Technology | | |
| **Task** | 2.X.X. Review and Update Recommendation V-145 on the Inter-VTS Exchange Format (IVEF) Service with a view to incorporating it as a product specification under S-200 | | |
| **Objectives of the task** | *(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** -  **Priority** - | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Suggested at VTS43 | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 2.X.X Develop a data model for digital information services for VTS (e.g. route exchange)

| **VTS Committee Work Programme 2018-2022** | | | |
| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | Auditing and Assessing VTS | | |
| **Task** | Develop a data model for digital information services for VTS (e.g. route exchange) | | |
| **Objectives of the task** | *(Describe the objective/s of the task)* | | |
| **Expected outcome** | A data model and a product specification in S-200  *(Describe the expected outcome: e.g. Recommendation, Guideline or Other)* | | |
| **Compelling need** | Liaison with eNav to develop model and specification in accordance with the previous work done by eNav  *(Describe briefly why this task should be included in the Work Programme)* | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal** -  **Strategy** -  **Priority** - | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Suggested at VTS43 | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 2.X.X Produce a guideline related to the Recommendation for the portrayal of VTS information

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | VTS Technology | | |
| **Task** | Produce a guideline related to the Recommendation for the portrayal of VTS information | | |
| **Objectives of the task** | *(Describe the objective/s of the task)* | | |
| **Expected outcome** | A data model and a product specification in S-200  *(Describe the expected outcome: e.g. Recommendation, Guideline or Other)* | | |
| **Compelling need** | Liaison with eNav to develop model and specification in accordance with the previous work done by eNav  *(Describe briefly why this task should be included in the Work Programme)* | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal** -  **Strategy** -  **Priority** - | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Suggested at VTS43 | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 2.X.X Produce a Recommendation on Cyber-Security

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | VTS Technology | | |
| **Task** | Produce a Recommendation on Cyber-Security | | |
| **Objectives of the task** | *(Describe the objective/s of the task)* | | |
| **Expected outcome** | A data model and a product specification in S-200  *(Describe the expected outcome: e.g. Recommendation, Guideline or Other)* | | |
| **Compelling need** | Liaison with eNav to develop model and specification in accordance with the previous work done by eNav  *(Describe briefly why this task should be included in the Work Programme)* | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal** -  **Strategy** -  **Priority** - | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Suggested at VTS43 | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 3.X.X VTS awareness for navigating officers

| **VTS Committee Work Programme 2018-2022** | | | |
| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | ???? | | |
| **Task** | 3.1.X. VTS awareness for navigating officers | | |
| **Objectives of the task** | *(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** -  **Priority** - | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Carried over from 2014-18 Work programme * Task was not commenced during 2014-18 Work programme. | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 3.X.X Develop guidance on human factors and ergonomics in VTS

| **VTS Committee Work Programme 2018-2022** | | | |
| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | ???? | | |
| **Task** | 3.1.X. Develop guidance on human factors and ergonomics in VTS | | |
| **Objectives of the task** | *(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** -  **Priority** - | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Carried over from 2014-18 Work programme * Task commenced at VTS?? | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 3.X.X Develop guidance on the management of a VTS

| **VTS Committee Work Programme 2018-2022** | | | |
| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | ???? | | |
| **Task** | 3.1.X. Develop guidance on the management of a VTSTS | | |
| **Objectives of the task** | *(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** -  **Priority** - | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Proposed by Italy during 2014-18 Work Programme | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 3.X.X Review and update IALA Guideline 1014 on the Accreditation and Approval Process for VTS Training

| **VTS Committee Work Programme 2018-2022** | | | |
| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | ???? | | |
| **Task** | 3.1.X. Review and update IALA Guideline 1014 on the Accreditation and Approval Process for VTS Training | | |
| **Objectives of the task** | *(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** -  **Priority** - | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Proposed by Italy during 2014-18 Work Programme | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

TASK 3.X.X Review, modernise and reformat Recommendation V-103 on the Standards for Training and Certification of VTS Personnel and associated Model Courses.

| **VTS Committee Work Programme 2018-2022** | | | |
| --- | --- | --- | --- |
| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | ???? | | |
| **Task** | Review, Modernise And Reformat Recommendation V-103 on The Standards for Training and Certification of VTS Personnel and Associated Model Courses. | | |
| **Objectives of the task** | *(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** -  **Priority** - | | |
| **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:  45 46 47 48 49 50 51 | | |
| **Committee notes** | **Origins** | * Proposed by Italy during 2014-18 Work Programme | |
|  | **Agreed by session** | **TD#** | **Comments** |
|  |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |

