# TASK 1.X.X Digital Route Exchange – Operational Requirements from a VTS perspective

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| **Standard** | Vessel Traffic Services | | |
| **Topic Area** | VTS Operations / Technology | | |
| **Task** | Digital route exchange - XXX  *(Propose a name for the task)* | | |
| **Objectives of the task** | To provide guidance for route exchange within VTS operations.  *(Describe the objective/s of the task)* | | |
| **Expected outcome** | The following outputs are expected.   1. Guideline on amending VTS Operational Procedures to improve port efficiency and reduce emissions from Ships. 2. Discussion paper on Technical Services and VTS system functionality impact from exchange of Route Plans 3. Update of G1141 Operational Procedures for delivering VTS 4. Update to G1111-1 Functional and Performance Requirements of the Core VTS System   *(Describe the expected outcome: e.g. Recommendation, Guideline or Other)* | | |
| **Compelling need** | Technical standards for digital route exchange are being developed by the IEC and that the IHO has declared 2020-2030 the "S-100 Implementation Decade".  Amendment to ECDIS Performance Standard MSC.232(82) enables exchange of route plans by ships. Approved at MSC 105 (April 2022)  Route sharing is central to port call optimisation and just in time arrival and therefore can improve port efficiency and helps reduce emissions from ships in order to meet IMO emission targets.  Reference Future VTS discussion paper - *4.3.4. Digital Situational Awareness / Common Situational Awareness [Situational Awareness and Common Operational Picture (Cop)]*  Links to other work:   * MSAC?? * IALA S-212??   *(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.  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.  S3 - Coordinate the further development of Marine Aids to Navigation, taking into account evolving operational and functional requirements, new techniques, new technologies and sustainability  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. | | |
| **Scope** | **In Scope:**  The ability to exchange route plans for ships provides many opportunities to improve efficiency and productivity within maritime shipping and within ports. It will also enable the maritime sector to reduce emissions thereby contributing to the greenhouse gas emission reduction targets set by IMO. The task should consider the following aspects:   1. VTS – Ship exchange of Route Plans 2. VTS – VTS exchange of Route Plans 3. VTS – Port Manager exchange of Route Plans 4. Destination VTS approval of Route Plan 5. Ship – VTS en-route update of Route Plan 6. Enabling improved scheduling of arrivals and departures (improved berth management)   *(Describe key items that are in scope/out of scope)* | | |
|  | Preparation of a new IALA Guideline for route exchange within VTS operations. Key milestones include:   |  |  | | --- | --- | | First draft (Output 1) | VTS 55 | | Draft completed and forwarded to Council for approval | VTS 56 | | Draft approved by Council |  | | | |
| **Expected numbers of sessions for completion** | Session number:  54 55 56 57 58 59 60 | | |
| **Committee notes** | **Origins** |  | |
|  | **Agreed by session** | **TD#** | **Comments** |
| XX |  |  |
|  | **Approved by Council** | *(Council Session)* | *(Date)* |
|  | **Revision Notes:** |  | |