Input paper: [[1]](#footnote-2) VTS57-9.1.3

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

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

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Technical Domain / Task Number 2 Task 2.5.2.b

Author(s) / Submitter(s) Fintraffic VTS

Proposal for Draft Service Design for VTS Route Exchange

# Summary

Technical Working Group (WG2) has been working on Service Specification for VTS Route Exchange, and it is expected to be finalised soon. Next logical step would be developing a SECOM based Service Design for this technical service.

This input paper describes the work that Fintraffic VTS has done to develop early draft for Service Design for VTS Route Exchange. The current draft is shared with the Committee as attachment.

## Purpose of the document

Fintraffic VTS has produced a candidate for draft SECOM based service design for VTS Route Exchange. If Committee finds it useful, this draft version could be used as basis to develop a version for testing as stated out in Chapter 4.

## Related documents

IMO Resolution MSC.530(106)/REV.1 "Performance standards for electronic chart display and information systems (ECDIS)"

IALA G1128 “The Specification of e-Navigation Technical Services”, version 1.6

Draft Guideline of VTS Digital Communications

Draft Service Specification for VTS Route Exchange, version 0.7

VTS55-12.5.2.5 WP IALA Service Design - Generic S-421 SECOM REST Design (clear from Tracking)

IEC 63173-1 “Maritime navigation and radiocommunication equipment and systems - Data interfaces - Part 1: S-421 route plan based on S-100”

IEC 63173-2 “Maritime navigation and radiocommunication equipment and systems - Data interfaces - Part 2: Secure communication between ship and shore (SECOM)”

# Background

The development of S-421 Route Exchange based services and capabilities is proceeding globally after IMO made an important resolution MSC.530(106)/REV.1 to mandate the route exchange between ship and shore using S-421 and SECOM. The Committee has noted on several occasions the need to develop documentation for harmonised route based technical services in fast pace. Technical working group (WG2) has been working on current subtask 2.5.2.b “Develop Technical Service Specifications for Route Exchange” for some time. Joint task group 2.5.2 and 2.8.1 is expected to get first version ready for testing purposes as version 1.0 soon. The service specification is not sufficient itself for starting to develop such a VTS Route Exchange service. Following G1128, there is a need for technical service design, which can then be used to develop the actual technical service implementations. In this case the service design should use SECOM as stated in the MSC resolution. The work to develop SECOM based service design has started already in previous committees.

# Discussion

Fintraffic VTS has been participating in the development of the Service Specification for VTS Route Exchange and the updating of G1128 within the DTEC Committee. Based on these experiences Fintraffic VTS has taken an action to write a candidate for draft Service Design for VTS Route Exchange. Fintraffic VTS addresses the early work done in previous committees to develop a route-based service design (see for example working paper VTS55-12.5.2.5). The reason for creating a new draft instead of proposing changes to earlier versions stems from the development of other working documents and guidelines. Most important from technical point-of-view is the new version of G1128. Version 1.6 includes totally new appendix D that has been introduced to better support harmonised way to design and implement SECOM based services. At the same time, the Committee has developed further draft Guideline of VTS Digital Communications and draft Service Specification for VTS Route Exchange. The proposed draft service design aims to take into account all these developments, including the work done in the Committee’s intersessional meetings on these topics after VTS56

# Action requested of the Committee

**The Committee** is requested to:

* Review the proposed service design (Annex A). If the Committee finds it appropriate, take Annex A as a working draft for the service design of VTS Route Exchange to be finalised in technical working group.

**Annex A**

ANNEX A - Draft Service Design for VTS Route Exchange 0.1

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-2)
2. Leave open if uncertain [↑](#footnote-ref-3)