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Agenda item [[2]](#footnote-2) 9.2

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Author(s) / Submitter(s) China Maritime Safety Administration

DRAFTED REVISION TO G1111-1 PRODUCING REQUIREMENTS FOR THE CORE VTS SYSTEM

# SUMMARY

As an important part of VTS system, with the application of new technologies such as digital communication, route exchange and MASS, VTS-MIS system plays an increasingly important role in VTS operation and management. In order to promote the coordinated development of VTS-MIS worldwide, it is necessary to formulate functional and performance requirements for VTS-MIS systems, which has become a consensus.

## Purpose of the document

The purpose of this document is to provide a draft revision of “G1111-1 PRODUCING REQUIREMENTS FOR THE CORE VTS SYSTEM”.

## Related documents

VTS51-7.3.4 Task register proposal 2022-2026-G1111-10 producing requirement for VTS-MIS systems

VTS51-7.3.4.1 producing requirement for VTS-MIS systems (DRAFT FRAMEWORK)

VTS51-13.3.0.2 WP Provisional 2023 – 2027 Task Plan

VTS52-7.3.4 Proposal for Producing Functional and Performance Requirements for Management Information System

VTS53-6.3.5 Proposal for the Development of an Independent G1111 Sub-guideline for VTS-MIS

PAP49-7.2.1 IALA COMMITTEE WORK PROGRAMME 2023-2027

VTS54-9.1.2 Proposal on updating G1111-1 to include guidance on VTS Management Information Systems.

VTS54-9.1.2.1 Annex\_G1111-1 Producing Requirements for Core VTS Systems and Equipment.

VTS55-9.2.1 FEEDBACK ON SUGGESTIONS FOR REVISED DRAFT GUIDELINE(VTS54-9.1.2.1) OF G1111-1 PRODUCING REQUIREMENTS FOR THE CORE VTS SYSTEM

# BACKGROUND

To advance the development of VTS-MIS system standards, China MSA has submitted proposals since the 51st meeting of the VTS Ccommittee, such as “development of functional and performance requirement of VYS-MIS” task registration sheet (VTS 51-7.3.4), guidelines framework (VTS 51-7.3.4.1), draft guidelines (VTS52-7.3.4), and proposal for developing independent sub-guidelines for the VTS-MIS G1111 series (VTS53-6.3.5). IALA 78th Council included “Consider updating G1111-1 to include guidance on VTS Management Information Systems” in IALA Committee Work Programme 2023-2027 and planned to initiate the revision task at VTS56.

To better advance this task, the China MSA delivered a keynote speech at the plenary session of the Technical Working Group of the VTS54, proposing that representatives of all parties provide suggestions for amendments to the draft guidelines, responded to opinions and suggestions regarding revision from eight aspects at VTS55, and carried out the second round of discussion.

This proposal is based on the first draft Guide, taking into account the relevant information from the two rounds of comments and the latest VTS developments to develop a new draft Guide.

# RevisIon

## Revising the title of guidelines 1111-1

To highlight the relative independent and important role of VTS-MIS system in the function of VTS, according to the requirements and objectives of the task2.6.1 "Update G1111-1 to include guidance on VTS Management Information Systems" in the IALA 2023-2027 Work Programme, it is proposed to revising the title of the Guidelines 1111-1 to "G1111-1 PRODUCING REQUIREMENTS FOR THE CORE VTS SYSTEM INCLUDING MIS".

## Improve the guidelines framework

In order to fully reflect the functions and performance requirements of VTS-MIS, it is recommended that adding new section 6- MANAGEMENT INFORMATION SYSTEM to the G1111-1 to discussing the relevant contents of VTS-MIS in detail.

## Enrich the content of the guidelines

* To refine the definition of the VTS-MIS system. Management information system (MIS)- an information management system which integrates, stores, processes, and utilizes data related to VTS operation and management. It can provide information exchange services, enhance the situational awareness of VTS operators, support decision-making and reduce the workload of VTS operators.
* To consider the role and function of VTS-MIS in digital communication between VTS and vessels. Digital communication is expected to be the primary means of communication between VTS and vessels (including conventional vessels and MASS), even replacing current communication modes gradually. The application of digital communication will change the interaction procedures between VTS and vessels. VTS providers should clarify the role and function of VTS-MIS in digital communication and develop corresponding modules to adapt to this change.
* To consider demands of new technologies such as AI and machine learning on the functionality and performance of VTS system in the future. The application of new technologies will result in the increase of data reception and processing, which requires VTS-MIS to address the associated demands and impacts on data management and organization.
* To consider data and information sharing demands. It is necessary to consider the availability and real-time requirements for third-party allied services such as tugs and pilotage, as well as the usage requirements for Maritime Single Window.
* To consider privacy security of personal information, some personal data may need to be special treated.
* To maintain the consistency of MIS with other chapters. The contents related to MIS in other chapters are refined and adjusted to ensure consistency between the framework and contents of the whole Guidelines.

Details are provided in the draft Guidelines.

# REFERENCES

1. Vessel Traffic Services Manual (Edition 8.3)
2. IMO Resolutions A.1158(32) GUIDELINES FOR VESSEL TRAFFIC SERVICES
3. G1111 Series Guidelines

# Action requested of the Committee

The Committee is requested to:

1. To consider the proposal, and continue to revising the draft Guidelines.

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