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| IALA Guideline |

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Standards, recommendations, guidelines, AND MODEL COURSES relating to vts – A REFERENCE LIST

Edition 1.0

Document date

Revisions to this 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 |
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# INTRODUCTION

## Preamble

The International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) is a specialised organisation for world‐wide improvement and harmonization of Marine Aids to Navigation.

The term “Marine Aid to Navigation” referred to in the Constitution of IALA, should be understood to be device, system or service, external to vessels, designed and operated to enhance safe and efficient navigation of individual vessels and/or vessel traffic. For the purposes of IALA this definition includes Vessel Traffic Services (VTS).

To achieve world‐wide improvement and harmonisation of Vessel Traffic Services IALA publishes Standards, Recommendations, Guidelines, and Model Courses specifically related to the development, implementation and operation of VTS.

## Objective

The objective of this Guideline is to provide a reference document for Competent Authorities, VTS Authorities and VTS Training Organisations on IALA documentation (Standards, Recommendations, Guidelines and Model Courses) specifically related to the development, implementation and operation of VTS.

The Guideline will be updated with the release of any new or amended IALA guidance specifically related to VTS.

# documentation structure

There principal components to the IALA document structure include:

1. Standards
2. Recommendations
3. Guidelines
4. Model Courses

## Standards

An IALA Standard is a part of a framework, the implementation of which by all coastal states will harmonise Marine Aids to Navigation, including VTS, worldwide. IALA standards cover technology and services and are non‐mandatory.

IALA Standards are suitable for direct citation by States in the interest of an efficient and harmonised global delivery of VTS.

Standards may contain normative and informative provisions:

* **Normative** provisions are those with which it is necessary to conform in order to claim compliance to the Standard.
* **Informative** provisions are those which specify additional desirable practices but with which it is not necessary to conform in order to claim compliance to the Standard.

There are seven Standards, including:

1010 - AtoN Planning and Service Requirements

1020 - AtoN Design and Delivery

1030 - Radionavigation Services

1040 - Vessel Traffic Services

1050 - Training and Certification

1060 - Digital Communications Technologies

1070 - Information Services

## Recommendations

IALA Recommendations specify what practices shall be carried out in order to comply with a Recommendation, and may be referenced, in full or in part, in an IALA Standard.

## Guidelines

IALA Guidelines describe how to implement practices normally specified in a Recommendation.

## Model Courses

IALA Recommendation V-103 - on the Standards for Training and Certification of VTS Personnel sets out the training requirements and certification standards for VTS personnel. Amongst other things the Recommendation provides the basis for model courses to establish a training programme on the specific knowledge and skill requirements necessary for qualification as a VTS Operator.

# documentation relating to VTS

The Standards, Recommendations, Guidelines and Model Courses specifically related to the development, implementation and operation of VTS are at Annex 1.

# REFERENCES

IALA Standard 1040 - Vessel Traffic Services

IALA Standard 1010 - Marine Aids to Navigation Planning and Service Requirements

IALA Standard 1050 - Training and Certification

IALA Standard 1070 - Information Services

# ANNEX 1 - STANDARDS, RECOMMENDATIONS, GUIDELINES AND MODEL COURSES RELATING TO VTS

| **IALA Standard** | | **Associated Recommendations**  *(i.e. What practices shall be carried out in order to comply with a Recommendation)* | | | **Related Guidelines/Model Courses**  *(i.e. How to implement practices normally specified in a Recommendation)* | |
| --- | --- | --- | --- | --- | --- | --- |
| **Standard** | **Topic Area** | **Number** | **Title** | **Provision** | **Number** | **Title** |
| **1040 –**  **Vessel Traffic Services** | VTS Implementation | R0119(V‐119) | The Implementation of Vessel Traffic Services | **Normative** | 1071 | Establishment of a Vessel Traffic Service beyond territorial seas |
|  |  |  | 1083 | Standard Nomenclature to identify and refer to VTS centres |
| V‐102 | The Application of the 'User Pays' Principle to Vessel Traffic Services | Informative |  |  |
| V‐120 | Vessel Traffic Services in Inland Waters | Informative |  |  |
| VTS Operations | R0127(V‐127) | Operational Procedures for Vessel Traffic Services | **Normative** | 1045 | Staffing levels for VTS Personnel |
| 1089 | Provision of Vessel Traffic Services (INS, TOS & NAS) |
| 1110 | Use of Decision Support Tools for VTS Personnel |
| 1118 | Marine casualty / incident reporting and recording including near miss situations as it relates to VTS |
| 1131 | Setting and Measuring VTS Objectives |
| VTS data and information management | R0125(V‐125) | The Use and Presentation of Symbology at a VTS Centre | **Normative** |  |  |
|  | R1014 | Portrayal of VTS Information | **Normative** | 1105 | Shore side portrayal |
| VTS Communications | R1012 | VTS Communications | **Normative** | 1132 | VTS VHF Voice Communication |
| VTS Technologies | R0128(V‐128) | Operational and Technical Performance of VTS Systems | **Normative** | 1111 | Preparation of Operational and Technical Performance Requirements for VTS Systems |
| 1082 | An Overview of AIS (do we need to refer to this one?) |
| A-123 | Provision of Shore Based AIS | A-123 is not listed in IALA Standards? |  |  |
| VTS Auditing and Assessing | R1013 | Auditing and Assessing Vessel Traffic Services | **Normative** | 1101 | Auditing and Assessing VTS |
|  |  |  |  | 1115 | Preparing for IMO Member State Audit Scheme (IMSAS) On Vessel Traffic Services |
| VTS additional services |  |  |  | 1070 | VTS Role in Managing Restricted or Limited Access Areas (Dec 2009) |
|  |  |  |  | G1102 | VTS Interaction with Allied or Other Services ( Dec 2013) |
|  |  |  |  |  | 1130 | Technical Aspects of Information Exchange Between VTS and Allied or Other Services (Dec 2017) |
|  |  |  |  |  |  |  |
| **1010 –**  **Marine Aids to Navigation Planning and Service Requirements** | Risk Management | R1002 | Risk Management for Marine Aids to Navigation | **Normative** | G1123 | The Use of IALA Waterway Risk Assessment Programme (IWRAP MKII) |
|  | 1018 | Risk Management |
|  | 1104 | The Application of Maritime Surface Picture for Analysis in Risk Assessment and the Provision of Aids to Navigation |
| Quality Management | R0132(O‐132) | Quality Management for Aids to Navigation Authorities | **Normative** |  |  |
|  |  |  |  |  |  |  |
| **1050 –**  **Training and Certification** | Training and assessment | R0103(V‐103) | Standards for Training and Certification of VTS Personnel | **Normative** | V-103/1 | Model Course – Vessel Traffic Services Operator Training |
| V-103/2 | Model Course – Vessel Traffic Services Supervisor |
| V-103/3 | Model Course – Vessel Traffic Services On the Job Training |
| V-103/4 | Model Course – Vessel Traffic Services - On the Job Training Instructor |
| V-103/5 | Model Course – The Revalidation Process for VTS Qualification and Certification |
| 1017 | Assessment of training requirements for existing VTS personnel, candidate VTS operators, revalidation of VTS operator certificates |
| 1027 | Simulation in VTS Training |
| 1103 | Train the trainer |
| Accreditation,  competency,  certification and  revalidation | R0149(O‐149) | Accreditation of Training Organisations | **Normative** | 1014 | Accreditation and Approval Process for VTS Training |
|  |  |  |  |  |  |  |
| **1070 - Information Services** | Data models and data  encoding (IVEF, S‐100,  S‐200, Application  Specific Messages) | R0145(V‐145) | The Inter‐VTS Exchange Format (IVEF) Service | **Normative** | 1102 | Inter-VTS Exchange Format (IVEF) Service |