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| A Global view of  vessel traffic services |
| Results from the IALA VTS Questionnaire |
| August 2016 |

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This page intentionally blank Foreword

This publication has been prepared by the IALA VTS Committee and is based on the responses to a Questionnaire to collect information on VTS throughout the world.

Key responsibilities of the Committee include:

* Undertaking the approved Work Programme relating to the preparation of Recommendations and Guidelines concerning the planning, implementation and operation of vessel traffic services and ship reporting systems;
* Monitoring appropriate technologies as set out in the approved Work Programme for the Committee;
* Reviewing the IALA VTS Manual and if necessary prepare revisions for consideration by the Council at least six months before each VTS Symposium;
* Drafting and updating IALA Recommendations and Guidelines, as and when necessary, on matters related to vessel traffic services, vessel traffic management and ship reporting systems;
* Monitoring developments of vessel traffic services and ship reporting systems and recommend actions which IALA could take to:
  + Promote VTS and increase the effectiveness of such services;
  + Improve co-operation and standardization among its Member Authorities;

Formed in XXX, the now has over 80 members, representing <XX> maritime authorities, <YY> industrial members and <ZZ> sister organisations.

In developing its 2014-18 work programme the Committee identified the need to collect information from individual countries as a means to obtaining statistical information and knowledge on VTS globally.

XX countries responded to the questionnaire, identifying AA Competent Authorities, BB VTS Authorities and CC VTS’s.

IALA welcomes feedback about this publication. Readers are invited to send comments or suggestions, which will be taken into account when considering the publication of the next edition.

Secretary General

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# Overview

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| Provide a high-level summary of the outcomes from the Questionnaire – Key results etc |

# COMPETENT AUTHORITY PROFILE

|  |
| --- |
| Provide an introductory paragraph, for example:  XX Competent Authorities from YY Countries responded to the questionnaire, identifying AA VTS Authorities and YY VTS’s.  Possible include some ree graphs:   * Distribution of the number of Competent Authorities by Country * Distribution of the number of VTS Authorities by Country * Distribution of the number of VTS’s by VTS Authority |

## GENERAL

### Is the Competent Authority appointed by national legislation?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |

### Is there more than one Competent Authority for VTS in your country?

|  |
| --- |
| Summarise the results |

### Do you appoint VTS Authorities?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |

### If no, who appoints the VTS Authority?

|  |
| --- |
| Summarise the results – for example, list common responses |

### How many VTS Authorities are there?

|  |
| --- |
| <insert graph – X axis to be number of VTS Authorities and Y axis to be the frequency by competent authority> |

## TRAINING, PERSONNEL AND CERTIFICATION

### How many VTS Training Organisations do you have in your country?

|  |  |  |  |
| --- | --- | --- | --- |
| Responses | Yes | No | *Nil Responses* |
| Response Total |  |  |  |

### Do you require your VTS Training Organisations to be accredited in accordance with IALA Guideline 1014 on the Accreditation and Approval Process for VTS Training?

|  |  |  |  |
| --- | --- | --- | --- |
| Responses | Yes | No | *Nil Responses* |
| Response Total |  |  |  |

### How many of these have been accredited in accordance with IALA Guideline 1014 on the Accreditation and Approval Process for VTS Training?

|  |  |  |  |
| --- | --- | --- | --- |
| Responses | Yes | No | *Nil Responses* |
| Response Total |  |  |  |

|  |
| --- |
| <Insert summary graph showing number of Training Organisations number of organisations accredited in accordance with 1014 and number not accredited> |

### If the VTS Training Organisations are not accredited in accordance with IALA Guideline 1014 on the Accreditation and Approval Process for VTS Training on the Accreditation and Approval Process for VTS Training please state what measures you have in place to ensure the quality of VTS training provision?

|  |
| --- |
| <List common responses> |

### Do your Training Organisations or VTS Authorities provide the following courses in compliance with IALA Recommendation V-103 on Standards for Training and Certification of VTS Personnel and the associated Model Courses:

|  |  |  |
| --- | --- | --- |
| Yes | No | Uncertain |
|  |  |  |

## SERVICE QUALITY

### Does the Competent Authority operate under a Quality Management System (QMS)?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |

### Does the Competent Authority operate under a a Safety Management System (SMS)?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |

### Do you require VTS related marine casualties and incidents to be reported?

### Do you analyse VTS related marine casualties and incident statistics?

### Do you have any suggestion for how IALA can improve the VTS related documents?

# VTS AUTHORITY PROFILE

XX VTS Authorities responded to the questionnaire, identifying YY VTS’s.

|  |
| --- |
| Summary of responses to the use of IALA Recommendations and Guidelines  Bar Graph showing % of VTS Authorities by Recommendation / Guideline |

Suggest graphs:

* XXXX

## GENERAL

### What type of VTS do you operate?

|  |
| --- |
| Bar Graph of number by type:   * Coastal * Port/Harbour * Coastal & Port/Harbour * Inland Waters * Port/Harbour & Inland Waters * Other |

Is participation in the VTS mandatory for specified vessels (eg. vessels over 70m)?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

### How is VTS information promulgated:

|  |
| --- |
| Bar Graph of number by type:   * World VTS guide * Nautical publications (e.g. ALRS) * User Guides * Website * Other |

### Does the VTS extend beyond the territorial seas?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

### Is your VTS area divided into sectors?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

|  |
| --- |
| Bar Graph of number by frequency: |

### Fill in the categorization code for the VTS area / sector (see annex A)

|  |
| --- |
| Graph  Types of VTS  Etc |

### What is the name identifier for the VTS in accordance with IALA Guideline 1083 on Standard Nomenclature to identify and refer to VTS centres?

## EQUIPMENT

### Did you refer to IALA Recommendation V-128 on Operational and Technical Performance of VTS Systems when considering your VTS equipment?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

### Did you refer to IALA Recommendation V-125 on the use and presentation of symbology at a VTS Centre when considering your traffic image display?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

### Do you use Decision Support Tools (DST) to assist in the monitoring/management of:

|  |
| --- |
| Bar Graph of number by type:   * Collision avoidance * Anchor watch * Grounding preventions * Air draught clearances * Area related (limited access areas, area to be avoid, etc.) * Speed limitations * Sailing plan compliances * Incident or accident management * Other |

### Did you refer to IALA Guideline 1110 on the Use of Decision Support Tools for VTS Personnel when considering the use of Decision Support Tools?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

### Are traffic planning tools available for the forward planning of traffic (eg scheduling)?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

## SERVICES

### Do your Operational Procedures conform with IALA Recommendation V-127 on Operational Procedures for Vessel Traffic Services?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

### Do you provide an Information Service (INS)

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

|  |
| --- |
| Bar Graph - Types of information provided to assist the on-board decision-making process?   * Navigational situations (including traffic and route information) * Navigational warnings (e.g. wrecks, obstacles not otherwise promulgated, diving operations) * Meteorological/hydrological information (e.g. strong wind, restricted visibility, tidal information, currents) * Navigational aids (e.g. status of AtoN, electronic AtoN, DGPS.) * Other (please specify) |

• Navigational situations (including traffic and route information)

### Does your VTS provide instruction to vessels under INS?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

### Do you provide a Traffic Organizational Service (TOS)

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

|  |
| --- |
| Bar Graph – Types of operational traffic management and forward planning of vessel movements provided?   * Traffic clearances (e.g. departing from a berth, entering into a fairway within a VTS area) * Anchorage (e.g. assignment of an anchorage position, organizing the movements to/from an anchorage position/area ) * Enforcement (e.g. adherence to traffic rules, speed limitations, pilotage requirements) * Waterway management (e.g. slot management to allocate ships in a time windows, organizing traffic concerning vessel dimensions in comparison to fairway restrictions.) * Other (please specify) |

### Does your VTS provide instruction to vessels under TOS?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

### Do you provide a Navigational Assistance Service (NAS)

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

|  |
| --- |
| Bar Graph – Types of navigational information, advice and/or instruction does your VTS provide to assist the on-board decision-making process and to monitor its effects?   * Request and identification (e.g. availability of NAS, request for ship identification such as position, course made good, speed, etc) * Navigational information including position and course (e.g. provide range and bearing from fixed object, provide information related to navigating into a channel/fairway/lane, etc) * Advice (e.g. advise a ship to alter its course and/or speed, to keep clear from area/position, etc.) * Warning (e.g. diverging from recommended track, dangerous obstacles, vessel NUC, etc) * Other (please specify) |

### Does your VTS provide instruction to vessels under NAS?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

### In communicating / interacting with vessels, do you use IMO Resolution A.918(22) Standard Marine Communication Phrases (SMCP)?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

### If yes, is the use of Message Markers standard procedure in routine communications?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

## INFORMATION MANAGEMENT

### What information does your VTS record and for what period is it retained?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

|  |
| --- |
| Bar Graph - Types of information recorded and period?  • Voice communications (Radio)  • Voice communications (Phone)  • Radar/AIS/Vessel position/tracks  • CCTV images  • Met/Ocean data  • Hydrographic data  • Ship details  • Voyage details  • Agent details  • Allied Services details  • Other (please specify) |

### Are you required by legislation to store and archive information?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

### Do you have the ability to retrieve and analyse historical data for either planning purposes or legal action?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

## STAFFING

### How many shifts do you have per centre per day?

|  |
| --- |
| Bar Graph – Frequency of number of shifts per day |

### What is the normal duration of each shift?

|  |
| --- |
| Bar Graph – Frequency of normal duration per day |

### How many VTS Operators do you have per shift and centre?

|  |
| --- |
| Bar Graph – Frequency of number VTS Operators per shift and centre |

### How many VTS Supervisors do you have per shift and centre?

|  |
| --- |
| Bar Graph – Frequency of number VTS Supervisors per shift and centre |

### Do you monitor fatigue and stress factors on VTSOs?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

|  |
| --- |
| Present summary of results |

### Do you follow IALA Guideline 1045 on Staffing Levels at VTS Centres?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

### As a prerequisite to VTS training, do you require previous Maritime education?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

### As a prerequisite to VTS training, do you require previous Maritime experience?

|  |  |  |
| --- | --- | --- |
| **Responses** | **Yes** | **No** |
| Response Total |  |  |
| Percentage |  |  |

### Other?

### Do you provide a VTS Certification Log to VTS personnel?

Do you have a process of regular assessment of the performance of VTS personnel?

|  |  |  |  |
| --- | --- | --- | --- |
| **Responses** | **Yes** | **No** | **Unsure** |
| Response Total |  |  |  |
| Percentage |  |  |  |

If yes, please explain how often.

Do you require staff to be trained to the V-103 standard before undertaking VTS duties?

1. Do you have a revalidation process?

|  |  |  |  |
| --- | --- | --- | --- |
| **Responses** | **Yes** | **No** | **Unsure** |
| Response Total |  |  |  |
| Percentage |  |  |  |

b. Does your revalidation/refresher process require training?

|  |  |  |  |
| --- | --- | --- | --- |
| **Responses** | **Yes** | **No** | **Unsure** |
| Response Total |  |  |  |
| Percentage |  |  |  |

If yes, please explain how often.

## SERVICE QUALITY

Do you use:

• a Quality Management System (QMS)?

• a Safety Management System (SMS)?

|  |  |  |  |
| --- | --- | --- | --- |
| **Responses** | **Yes** | **No** | **Unsure** |
| Response Total |  |  |  |
| Percentage |  |  |  |

### Do you analyse VTS related marine casualties and incident statistics?

|  |  |  |  |
| --- | --- | --- | --- |
| **Responses** | **Yes** | **No** | **Unsure** |
| Response Total |  |  |  |
| Percentage |  |  |  |

### Do you have any suggestion for how IALA can improve its VTS related documents?

|  |  |  |  |
| --- | --- | --- | --- |
| **Responses** | **Yes** | **No** | **Unsure** |
| Response Total |  |  |  |
| Percentage |  |  |  |

