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| IALA RECOMMENDATION V-xxx |

Recommendation on portrayal of vts information and data

Edition 1.0

March 2017

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 |
| 2016-August | All sections | Initial release as Edition 1 under the title “Draft Recommendation on Portrayal of VTS Information and Data V-xxx” |
| 2017-March | All sections | Final release as Edition 1.0 under the title “Recommendation on Portrayal of VTS Information and Data V-xxx” |
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IALA Recommendation on Portrayal of   
VTS Information and Data  
(Recommendation V-xxx)

THE COUNCIL

**RECALLING** the function of IALA with respect to Safety of Navigation, the efficiency of maritime transport and the protection of the environment;

**RECOGNISING**

* that IALA fosters the safe, economic and efficient movement of vessels through improvement and harmonisation of aids to navigation, including vessel traffic services, worldwide;
* that harmonisation of vessel traffic services would be enhanced by the introduction of international technical performance requirements for VTS.

**NOTING**

* that Chapter V (regulation 12) of the International Convention for the Safety of Life at Sea 1974 (SOLAS 74 as amended) requires Contracting Governments planning or implementing VTS, wherever possible, to follow the guidelines adopted by the Organization by Resolution A. 857(20);
* that IMO Resolution A.857(20), Annex section 2.2.2 recommends that in planning and establishing a VTS, the Contracting Government or Governments or the competent authority should inter-alia establish appropriate standards for shore and offshore based equipment;
* that National Members provide shore infrastructure to support the aim of IMO to improve the safety of navigation and the protection of the environment.

**NOTING ALSO**

* that portrayal covers the output of a human machine interface to the user in a VTS Centre in way of visible, acoustical output from the machine. It includes also the tactile (type, click) and acoustical input (voice) to the machine;
* that International Hydrographic Organisation (IHO) has established a Geospatial Information Registry (GI Registry), as defined by their publications S-100 and S-99 and has introduced the notion of ‘products’ as an internationally unified rule base for the combination of different parts of the GI Registry.

**RECOMMENDS**

1. VTS data and decision support tools data should be portrayed in such a manner as to facilitate the cognitive process to assist effective situation awareness and decision-making on the part of the VTSO.
2. The VTS-portrayal should focus on the VTS tasks.
3. The VTS-portrayal (human machine interface) should not be dependent of specific data processing and sensor hardware and software.
4. The presentation in the VTS should be based on the operation at hand. Where existing presentation e.g shipside presentation, is applicable its should be used.
5. The VTS-portrayal should fulfill the IALA minimum requirements, refer to guidelines “1105 - 2013-12-09 Shore side portrayal”, “1110- 2014-12-10 Use of Decision Support Tools for VTS Personnel”, “1111 - 2015-05-29 Preparation of Operational and Technical Performance for VTS Equipment”, and to recommendations “V-119 2009-12-09 Implementation of Vessel Traffic Services “, “V-125 - 2012-06-28 Use and Presentation of Symbology at a VTS Centre (including AIS)”.
6. The VTS-portrayal should be adaptable to local regulations and conditions.
7. The VTS-portrayal should be configurable to satisfy the VTSO´s tasks and needs.
8. The VTS-portrayal should allow the VTSO to choose information items to be displayed in a way to avoid overload of data.
9. The VTS-portrayal should provide information in a way, that the VTSO intuitively understands the meaning of the data.
10. Human centered methodology or design steps and ergonomic approach should be followed to implement a VTS-portrayal.
11. The VTS-portrayal should include the presentation of data quality and of information filters.
12. The VTS-portrayal should react to additional data or information sources by only displaying data that is required by the VTSO.
13. The VTS-portrayal should allow VTSO to input information or to take actions efficiently, as at least for, entering traffic information or special conditions, managing sensors, alerts and alarms, using DST tools.
14. The VTSO input data should pass through validation checks and the VTS-portrayal should give an indication in case of a mistake.
15. The VTS-portrayal should be able to display and log automated, and accept manual inputted, alerts and alarms to present real time risk assessments.
16. Decision support tools (DST) data presentation should follow the IALA portrayal recommendation.
17. The VTS-portrayal could be used to replay/playback recorded information.

**RECOMMENDS ALSO**

1. Refer to IALA VTS guidelines:

* 1105 - 2013-12-09 Shore side portrayal
* 1110- 2014-12-10 Use of Decision Support Tools for VTS Personnel
* 1111 - 2015-05-29 Preparation of Operational and Technical Performance for VTS Equipment

1. Refer to IALA VTS recommendations:

* V-119 2009-12-09 Implementation of Vessel Traffic Services
* V-125 - 2012-06-28 Use and Presentation of Symbology at a VTS Centre (including AIS)