# Minutes of the January 2012 Inter-Sessional Meeting of VTS Working Group 2

**Date:** January 30, 2012 to February 1, 2012

**Participants:**

* Loïc Gourmelen (CETMEF, France)
* Takahiro Itagaki (Japan Radio Co., Japan)
* Shuigi Inoue (Japan Radio Co., Japan)
* Richard Aase (Norwegian Coastal Administration, Norway)
* Jens-Christian Pedersen (Terma, Denmark)
* Robert Townsend (Maritime and Coastguard Agency, UK)
* David Turnage (Kelvin-Hughes, UK)
* Rainer Strenge (Federal Waterways Administration, Germany)
* Siddi Wouters (Norcontrol, Norway, Monday/Tuesday)
* Øystein Jørgensen (Norcontrol, Norway, Monday/Tuesday)
* Romain Gallen (CETMEF, France)
* René Hogendoorn (HITT Traffic, Netherlands)
* Jolanda van Deursen (TNO, Netherlands, Monday afternoon)
* Arne Theil (TNO, Netherlands, Monday afternoon)
* Peter Eade (VisSim AS, UK, Tuesday/Wednesday)
* Reinder Siebrands (Port of Rotterdam, Netherlands, Tuesday)

# Agenda

Monday

13h - Opening and Introduction

13:10h - Status of the Draft V.128

15h – CARPET Discussion with Arne Theil (TNO)

Tuesday

8:30h - Drafting Work

12h – Lunch

13h – Drafting Work

Wednesday

8:30h – Drafting Work

12h – Lunch

13h – Summary and Minutes

15h – End of the Meeting

# General

The meeting was held at Hotel Haarlem-Zuid near Amsterdam airport. Attendance was beyond expectation: on Monday 12 people, Tuesday 14 people and Wednesday 11 people. The intent of the meeting was to expand the content of IALA Recommendation V-128 to a level such that the document can be reviewed at the next committee meeting in March 2012 (IALA VTS Committee Work Plan 2010 to 2014, Task 6: Revise V-128 Operational and Technical Performance Requirements for VTS equipment, Annexes 2, 3, 6, 7, 8, and 9). Note that, as reported to the Committee, the work group decided that a re-structure of V-128 was needed. The present work was done in conformance with the proposed new structure of V-128.  
Additionally, people from TNO joined the meeting on Monday afternoon to discuss the status of CARPET, the de-facto reference software to calculate radar performance.

The meeting was very productive. Most of the V-128 document has reached the state that it can be reviewed by the working group during the March 2012 VTS Committee meeting. The annexes that still need substantial work will be drafted by early March, so they can be included in the draft V-128 that will be reviewed at the VTS34 meeting. The objective is to forward the updated draft V-128 to WG1 and WG3 for their review shortly after VTS34.

# CARPET

Mrs van Deursen gave a presentation on TNO and the present business case of TNO for the update and extension of CARPET. Mr Theil showed the response on his request for possible extensions. It was universally recognized that the current version lacks the necessary features to support solid-state radar modelling and an extension is needed. The main issue for TNO, being a non-profit organisation, is to get the required funding to start working on the software. So far the discussion with respect to funding is non-conclusive.

# Status of the work on V-128

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| --- | --- | --- |
| **Section** | **Task** | **Responsible** |
| General | Completed   * Move abbreviations to the general section * Add lists of tables and figures | JCP |
| Annex 1 – | **Core Operational requirements**  Completed   * Climatic categories defined   To be done   * Add a paragraph on environmental monitoring, incl. Oil Spill Detection (OSD). * In general add techniques emerging now * Climate zones figure needs rework * Add sections on safety and security precautions, lightning protection, warning lights, site access and power supply * Clarify the key objectives of a VTS system   Further review of the core requirements is needed after completion of the other annexes to ensure consistency throughout the document | All |
| Annex 2 – | **Radar**  Completed   * Most of the draft annex was completed before the inter-sessional meeting   To be done   * remove reference to timeline for technology * further detail the use of radar for off-shore, inland and port surveillance * add section on OSD * a few minor issues to be addressed | JCP |
| Annex 3 – | **Automatic Identification System (AIS)**  To be done   * the existing text is out of date and will be updated * rewrite this annex and refer to A-124, as appropriate   *Homework, due early March* | SW + RS + **PE** |
| Annex 4 – | **Environmental Monitoring**  Completed   * the annex was completely rewritten and renamed   To be done   * Add description of sensors for environmental protection (OSD, radar wave height measurement etcetera) * Ice monitoring   *Homework, due early March* | **IS** + TI + PE |
| Annex 5 – | **Electro-Optical Equipment**  To be done   * Annex needs to be rewritten * Add thermal imaging   *Homework, due early March* | **SW** + PE |
| Annex 6 – | **Radio Direction Finders**  Completed   * Most of the draft annex was completed before the inter-sessional meeting   To be done   * Some minor editing |  |
| Annex 7 – | **Long Range sensors**  Completed   * The annex was rewritten   To be done   * Minor editing |  |
| Annex 8 – | **Radio Communications**  Completed   * The draft annex was completed during the inter-sessional meeting   To be done   * Add audio performance requirements * Minor editing   *Homework, due early March* | RA + **RT** + LG |
| Annex 9 – | **Data Processing**  To be done   * Needs to be expanded * should include sensor data processing & port logistics MIS * Alignment with database connections, as mentioned in annex 10     *Homework, due early March* | **RH** + RS |
| Annex 10 – | **Human/Machine Interfaces**  Completed   * a draft annex was mostly completed at the inter-sessional meeting * originally Data Display, renamed to HMI   To be done   * add maintenance HMI   *Homework, due early March* | OJ + **DT** |
| Annex 11 – | **Decision Support**  Completed   * most of the draft annex was completed before the inter-sessional meeting   To be done   * add time waypoint guidance (route-based trajectory prediction, e.g. Poseidon) * Alignment with presentation, as mentioned in annex 10     *Homework, due early March* | PE + **RG** |
| Annex 12 – | **External Information Exchange**  Completed   * most of the draft annex was completed during the inter-sessional meeting   To be done   * add section on data security/encryption * references to existing standards/recommendations   *Homework, due early March* | **RH** + RG |
| Annex 13 – | **Verification and Validation**  Completed   * most of the draft annex was completed during the inter-sessional meeting   To be done   * minor editorial work | **JCP** +LG + OJ |

Note that the lead person for a particular section is displayed in bold/underlined.

# Procedure for updating the Draft V-128

Coordination of draft V-128 will be carried out by Jens Christian Pedersen. All contributions should be sent to him by the 5th of March 2012