**Note to WG1 from WG5 regarding e-NAV14 8.6.3**

The document *Draft IALA Guideline on Harmonised Portrayal of e-Navigation-related Information*, e-NAV14.8.6.3, is an example of work done that can be considered to be part of the IALA Unified Operational Presentation Surface (UOPS), a layer of the IALA e-Navigation Stack, as discussed in the document *Draft Revision of Recommendation e-NAV-140 on e-Navigation Architecture Shore Perspective (Ed 2)*, e-NAV14.12.2.3.

WG5 is glad to see the WG1 and the VTS Committee taking up this material (reference e-NAV14.8.2).

The point of this paper is to raise awareness of the architectural work already done and to remind the reader that material such as the draft guideline already has ‘landing pads’ within the IALA e-Navigation architecture.

For reference, the following is material extracted from Draft e-NAV-140 (Ed 2) which discusses the IALA e-Navigation stack and the UOPS.

The IALA e-Navigation Stack is an internationally harmonized/unified layer modeling for the shore-side, specifically developed for e-Navigation. The idea of the stack is to represent the different working areas of IALA regarding e-Navigation in a layered model. It follows the philosophy of the Open System layered model, providing a seamless framework for IALA’s work for the shore side starting top from User Requirements down to the shore-based system architecture and the specific technical e-Navigation services. The IALA e-Navigation Stack is informed by maritime transport processes and user needs.

|  |  |  |
| --- | --- | --- |
| **Acronym of layer** | **Name of layer** | **Name of sub-layer** |
| **Maritime Transportation Processes (incl. Logistics Chain)** | | N/A |
| **IMO User Needs** | | N/A |
| **ISHR** | **IALA Stakeholders Harmonized User Requirements** | |
| **IALA UOPS** | **Unified Operational Presentation Surface** | |
| **IHDM** | **IALA’s contribution to the IMO governed Common Maritime Data Structure (CMDS)** | Data properties definitions |
| Data objects definitions |
| **IALA MDEF** | **IALA Maritime Data Exchange Format** | Encoding-free sentence definitions |
| Technology specific encoded sentences |
| **IALA CSSA** | **IALA Common Shore-Based System Architecture**  **Technology-specific level** | Generic part of CSSA |
| Technology-specific part of CSSA |
| **National / regional adaptation** in their appropriate procurement documentation | | |
| **Contractor / industry implementation** | | |

1. Simplified representation of the “IALA e-Navigation stack” (highlighted by double lines) within its context

**IALA UOPS: IALA Unified Operational Presentation Surface**; the idea is, that there is a *functional and globally unified* description for the functionality of the Human Machine Interfaces provided to operators at *shore-based work places*, e. g. at VTS Centres. This layer would consist of a harmonized and – as far as possible – unified collection of *presentation, portrayal, and functionality requirement statements for the Operational Presentation Surface*, i.e. for all aspects of HMIs at shore-based work places. It could be used both by administrations and manufactures of such equipment as a common requirement statement. Also, next versions of the VTS model training course could be referencing / being built upon that unified description.

It is understood, that the degree of unification which can be achieved within the UOPS may vary with different functionality under consideration; there may be areas of functionality were there can be achieved a large degree of unification, while there are areas of functionality, where there can only be achieved harmonization. Various configuration options should also be considered a viable avenue to achieve harmonization or even unification because regionally different settings could be mapped into configuration options. The individual presentation, portrayal, and functionality requirement statements would be captured in appropriate templates