**TASK 2.3.1 Develop a Data Model for Digital Information Services for VTS (e.g. Route Exchange)**

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1. **Existing (draft)standards relevant to VTS-activities regarding Digital Information Services**

IHO S-123: Radio Services

IHO S-124: Navigational warnings

IHO S-127: Traffic management

IHO S-1xx: Marine Services

IHO S-1xx: Digital Mariner Routing Guide

IALA S-210: Inter-VTS Exchange Format

IALA S-211: Port Call Message Format => concept name

IEC S-421: Route Exchange

**Action:** Input paper for next session by Michael Bergmann with an overview of all non-IALA standards regarding this topic.

**Action:** Evaluate S-210 with R. Hogendoorn together with members during next session

1. **Evaluation of standards**

**Draft IALA S-211 (*PCM Product Specification 0\_8\_0 20181004.docx*)**

* Defining who is leading the product specifications
* Field manager: Michael Bergmann
* Developer: IALA (VTS WG 2 ?)
* Port call does not relate only to activities within the port, it addresses all activities related to the voyage of a ship
* Standard will be included in IHO registry as S-211
* Compliancy with route exchange (S-421) is necessary to optimize the voyage
* MSP’s 1 to 8 are primarily impacted by this standard
  + References are IMO SIP and IMO NCSR5 WP.4
* What about portrayal of S-211 ?
  + Is it necessary to include this in the product specification ?
  + S-211 is about data-exchange, this is independent from the presentation to end user. The presentation is dependent of the specific use of the end user which is defined by the local organization/environment.
* There is no intelligence in the S-211 standard itself, the information which is being exchanged can be used by the receiving/sending parties in such a way that innovative services can be created.
* Security, authentication and authorization are to be handled by the MCP or appropriate other means (Communication layer)
* Voyage ID’s will be addressed by IEC S-421
* The assignment of Voyage ID’s is discussed in other working groups, the precise definition and use of Voyage ID’s will be out of scope of this working group
* UNLOCODE are to be used to define locations, as already stated in the standard
* For the Vessel ID the fact of non IMO numbered vessels has to be taken into account

**Action:** Members are asked to study the draft S-211 for the next session, since the document was only partly reviewed during this session (up to 7.2.6 was reviewed)

**Draft IEC S-421 CD**

* Not yet evaluated this session, no documents are available at this time in the working group to evaluate S-421

**Action:** Request IALA secretariat to coordinate with IEC to access the draft of S-421

**Coordination with WG1**

* Cooperation with WG1 will be necessary in order to align the technical aspects of Information Exchange with the operational requirements mentioned in the MSP’s.
* It is advised to establish a joined working group during the next session

1. **Aligning S-211 with S-421**

No activities have been started here by the working group.

1. **Review of Draft S-211 v0.8.0 (4 Oct 2018)**

* In the draft Product Specification of S-211 the relationship between port call and VTS has been added
* The references to STM need to be removed
* A relation should be established with IEC S-421