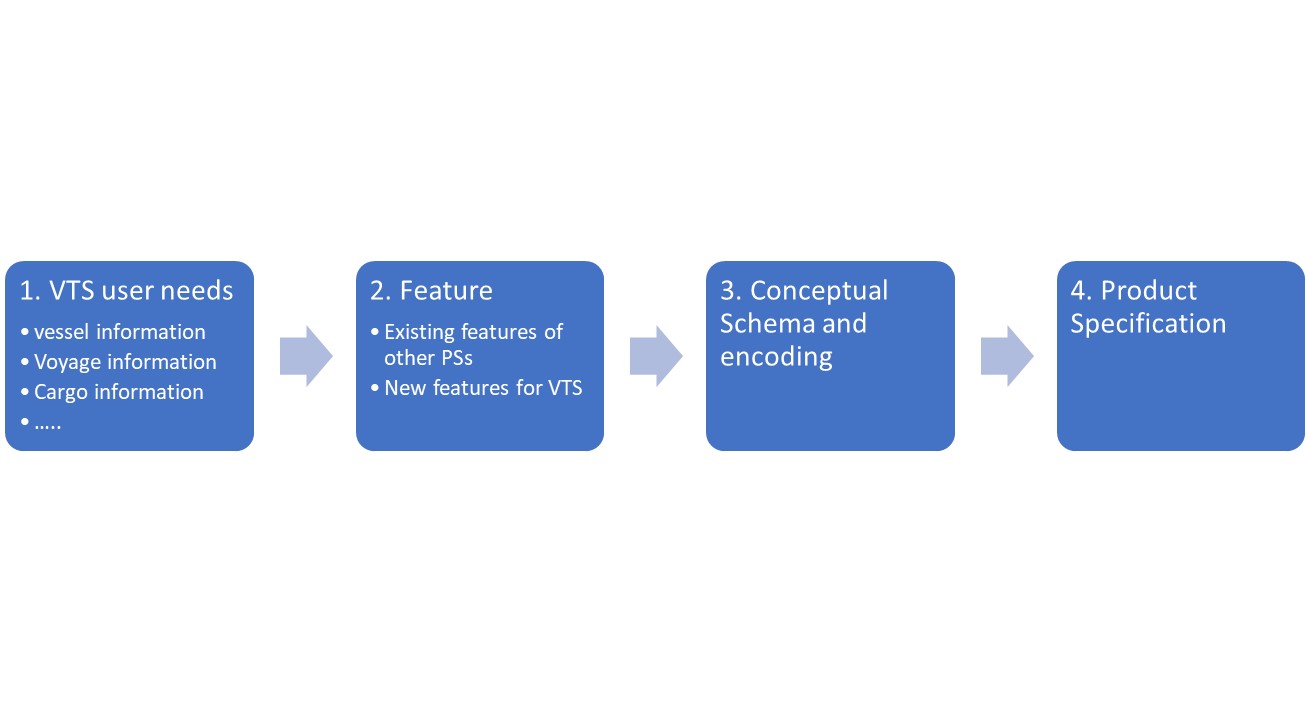
**Develop a Data Model for Digital Information Services for VTS**

**Participants:** Yu Seong-Sang, Serge Deschamps, Hye-jin Kim, Wim Smets, Frederik Karlsson, Diesel Chun, Hans Verra

To develop a data model for VTS, Guideline G1106 on Producing an IALA S‐200 series product specification was studied, and the group agreed the process of developing digital information services for VTS.



1. **VTS user needs**



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

* IHO S-102 Bathymetric Surface
* IHO S-111 Surface Currents
* IHO S-123: Radio ServicesIHO 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
* JCOMM S-412 Weather Overlay

**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

**2.2 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

**Draft IEC S-421 Annex A**

* Focuses on exchange of information between ship - shore and display on ECDIS equipment
* Contains forecasted route information => Non REALTIME

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

**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

**2.3 Review of Draft S-211**

* 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

Feb 2019: An updated version of S-211 has been provided by IALA secretariat, however the revision of S-211 is not in the scope of this task. No further actions will be taken regarding the review of this draft

1. **Conceptual Schema and encoding**

The group agreed that encoding part should be supported by an experts group of programmer, and inputs for the data modelling will be outcome of this group.