



# IALA COUNCIL

## 75<sup>th</sup> session



**30 May – 3 June 2022**  
**Copenhagen**  
**Denmark**

### 10 – TECHNICAL ACTIVITIES

#### 10.7 – S-200 Development

##### 10.7.1 – Committee work on S-200

Note by the Secretariat

#### 1. INTRODUCTION

During the first half of 2022, the committees continued working on developing S-200 Product Specifications (PS) within their areas of responsibility. The committee task groups have worked on various PS related issues.

The purpose of this paper is to report to the Council on the development status of the S-200 PS series, following the work of the committees.

#### 2. UPDATE ON S-200 PS DEVELOPMENT

As the domain control body of the S-200 series, IALA develops its own PS related to Marine Aids to Navigation.

The following table summarizes the work of the committees as of now:

Domain	PS	Title	Developing Committee	Version
AtoN	S-201	AtoN information	ARM	1.1.0
	S-125	Maritime Navigational Service	NIPWG (ARM)	
Positioning	S-240	DGNSS almanac	ENG	1.0.0
	S-245	eLoran ASF	ENG	0.7.0
	S-246	eLoran almanac	ENG	1.0.0
	S-247	eLoran reference stations	ENG	1.0.0
Comms.	S-230	Application Specific Message (ASM)	ENAV	Planned
VTS	S-210	Inter VTS exchange	VTS	Started
	S-211	Port Call Message	IPCDMC	1.0.0
	S-212	VTS digital information service	VTS	0.6.4

#### S-201 and S-125

ARM Task Group (TG) on S-201 and S-125 continued the tasks and updated the S-201 AtoN information product specifications. The S-125 is the public-facing version of the S-201.

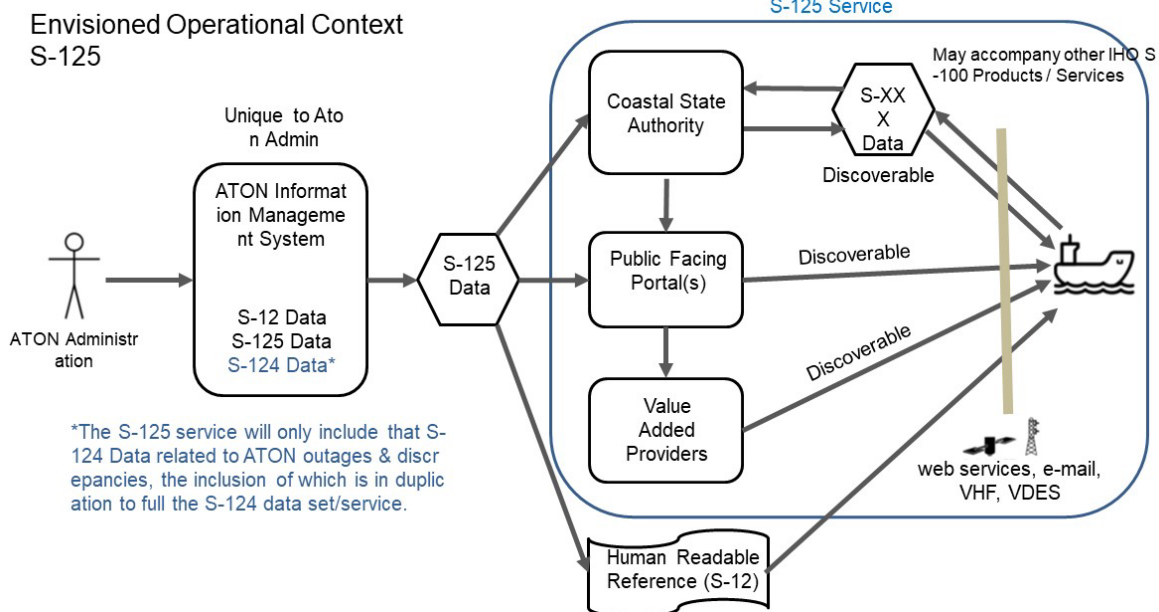


Figure 1 Envisioned S-125 data model

The TG reviewed the agreed data model and noted the S-201 feature catalogue development, the registry issues were discussed, and new data types will be registered in the S-100 GI registry.

The TG agreed to follow the S-100 edition 5.0, which includes major changes such as the GML schema and metadata. The portrayal of new feature types like moorings will be developed. USCG provided examples of their visualization of moorings, and the group agreed to develop portrayals from these user cases.

The updating process of S-201 packages was identified and will be followed intersessionally after ARM15.

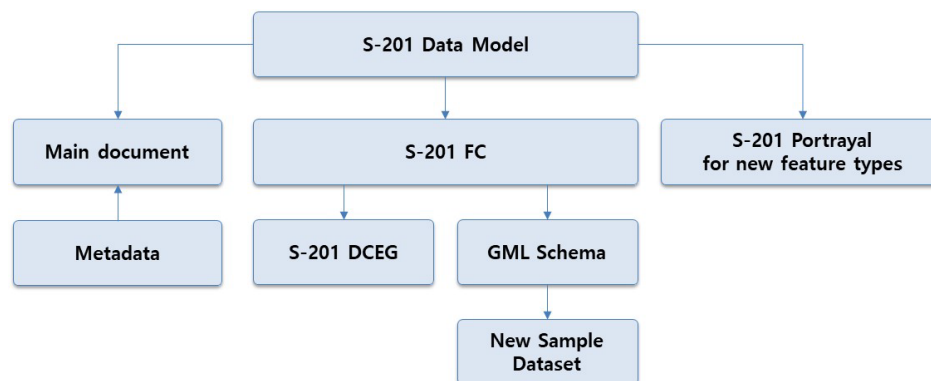


Figure 2 S201 Data model package structure

Regarding the S-125 Maritime Navigational Service, the group reviewed the proposed data model and drafted the main document. The S-125 data model includes an information type named as AtoNStatusInformation, which includes attribute types to deliver Aton changes such as change details and change types.

The group reviewed the data model and agreed upon some amendments. The data model will now be used for the further development of the first feature catalogue. The metadata values including edition number, update number, issue date, and issue time will be used to update the S-125 dataset. An important issue is how to portray the AtoN changes. Using the change types (temporary changes, proposed changes, advance notice changes, discrepancy), a circle and letter symbol might be used



together with the existing AtoN symbols. The group agreed that the proposed portrayal could be a baseline to improve the S-125 portrayal through testing and consultation.

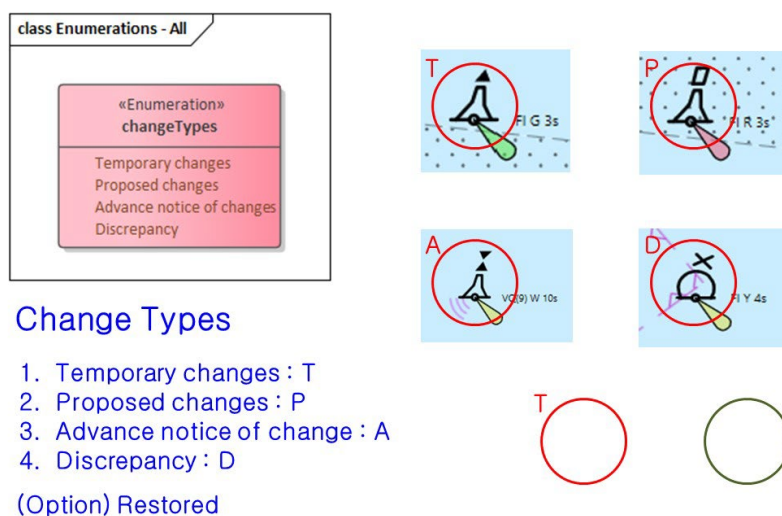


Figure 3 Proposal for change types symbology

## S-240

ENG completed the S-246 and S-247 as version 1.0.0 for test and trial. The committees will continue the work with the inter-sessional task groups, and the detailed information is uploaded onto the website at <https://www.iala-aism.org/technical/data-modelling/iala-s-200-development-status/>.

ENG continued work on the S-245 (eLoran ASF data) product specification with the aim of providing a draft version at ENG16. This work includes developing and maintaining relevant Product Specifications e.g., S-245 eLoran ASF data, S-246 eLoran transmitting station alamanc, S-247 Differential Loran reference station etc.

## S-212

An input paper from the China MSA providing several proposals was reviewed, which resulted in an updated version (0.65) of the Digital Information Service product specification. Additional work was carried out to ensure the draft aligns with the new IMO Resolution A.1158(32) *Guidelines for Vessel Traffic Services*. Work will progress during VTS53 immediately after the workshop on Developing S-100/S-200 Product Specifications.

### 3. JOINT IALA IHO WORKSHOP ON S-100/S-200 PS DEVELOPMENT AND PORTRAYAL

The workshop will be held from 5 – 9 September 2022 in Aalesund, Norway. The programme will cover the introduction of S-100 and S-100, shared experiences, and review of IHO and IALA recommendations and guidelines.

The workshop could provide a chance to gain a common understanding between organizations regarding the concepts and use of the S-100 framework to advance the development and delivery of e-Navigation maritime services. This event will examine current efforts with the goal of harmonization between organizations.

### 4. STRATEGY ON S-200

IALA will continue to develop and coordinate PS and data exchange formats that will underpin e-navigation services in the future. The committees will focus on the technical service and streaming of the data and as some of the S-200 PS reach maturity, they will require testing. IALA will then promote PS testbeds, inviting members to participate.



IALA will continue close cooperation with IHO through the technical cooperation meetings and will also harmonize the terms and definitions of AtoN with IHO.

## **5. THE COUNCIL IS REQUESTED TO**

**NOTE** the information provided in this document.