



8 – STRATEGY AND POLICY

8.4 – S-200 Product Specification

8.4.1 – S-200 PS development brief report

Note by the Secretariat

BACKGROUND

The IHO S-100 Standard describes a framework intended for the development of digital products and services for hydrographic, maritime and GIS communities. This framework is essential for the collection, exchange and distribution of maritime information. It is an important element of implementing the Common Maritime Data Structure (CMDS) and e-Navigation services.

Following Council approval of IALA participation in the S-100 framework, IALA has taken responsibility for managing the S-200 part of the framework, which is meant to cover the topics of interest for IALA members. As the S-200 Domain Control Body, IALA formally submits S-200 product specifications to the IHO for inclusion in their S-100 Geospatial Information Registry. The Committees have been working hard on developing several product specifications and this paper provides a status of this work.

Related guidelines

- G1106 on the Development of Product Specifications
- G1087 on the Management of the IALA Domain
- G1088 on the Introduction to Preparing S-100 Product Specifications

SCOPE OF THE S-200 PRODUCT SPECIFICATIONS

Currently the S-200 series of product specifications includes topics like:

- Aids to Navigation (AtoN);
- Vessel Traffic Services (VTS);
- Positioning Systems;
- Communication Systems; and
- AIS, ASM, VDES.

As the domain control body of S-200 series, IALA can develop its own product specifications related to Aids to Navigation and VTS etc., but other organisations outside of IALA can also propose new S-200 product specifications.



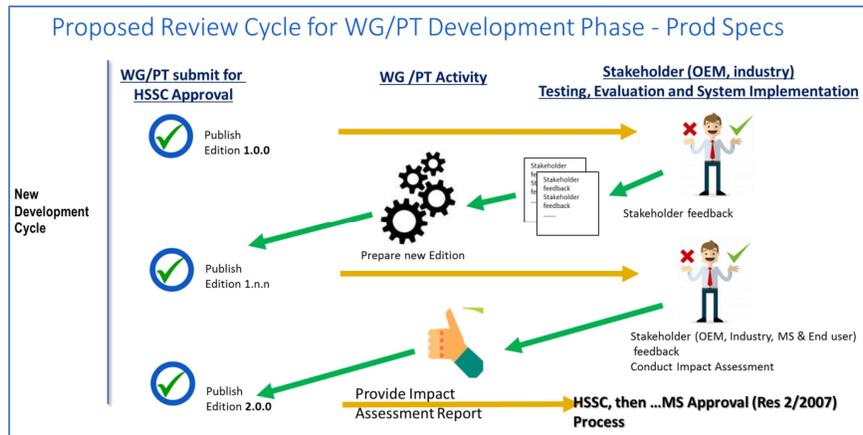
IALA S-200 PS DEVELOPMENT STATUS

The table below provides an overview of ongoing work on the S-200 series of product specifications:

Subdomain	Product Spec. number	Title	Developer (owner)	Current version
AtoN	S-201	AtoN information	ARM	1.0.0
Positioning	S-240	DGNSS almanac	ENG	0.0.2
	S-245, S-246, S-247	eLoran ASF, almanac, reference stations	ENG	0.0.6
	S-230	Application Specific Message (ASM)	ENAV	Planned
VTS	S-210	Inter VTS exchange	VTS	Planned
	S-211	Port Call Message	IPCDMC ¹	1.0.0
	S-212	VTS digital information service	VTS	0.0.1

Version control

It is important to keep track of the version of each product specification. The S-200 series follows the version numbering principles given by IHO as illustrated below:



Versions numbered less than 1.0.0 are still being developed. Versions numbered 1.x.x have been published for evaluation and testing. Versions numbered 2.0.0 and above are for production and full implementation.

ENAV

The ENAV committee has been the main driving force in the development of product specifications. Most, if not all of the IALA guidance on how to write product specifications has been produced by the ENAV committee, and early drafts of the S-201 product specification were provided by members of

¹ IPCDMC is “The International PortCDM Council”, and PortCDM is “Port Collaborative Decision Making.”



the ENAV committee. The S-230 product specification on Application Specific Messages is in the pipeline.

ARM

ARM 10 completed the S-201 PS version 1.0.0. This is the culmination of many years of work at the ENAV Committee and lately at ARM. This document has now been published.

ARM is also looking for opportunities to trial the product specifications developed so far. During ARM 10, the representative from South Korea presented an update on a test bed that has been implemented to demonstrate some aspects of the S-200 series of product specifications. A web-based demonstration of the test bed was demonstrated.

ARM is organizing a joint IHO/IALA workshop on S-100/S-200 development and portrayal in June 2020 in Norway.

Product specifications reaching maturity (version 1.x.x) should be promoted for trials. The S-200 joint workshop could be a good opportunity to increase the interest and awareness of the members on product specification development.

ARM members have been asked to submit updates on the progress of this topic to be presented at each ARM meeting. These updates will be used as inputs to the development of S-201. Further work in this item will take place throughout the working period.

Working documents

- ARM10 13.3.1 S-201 1.0.0 overview; and
- ARM10 13.3.1.1-10 S-201 PS and its attached documents.

ENG

The Committee reviewed input papers on the draft product specification for DGNSS station almanac (S-240), eLoran ASF data (S-245), eLoran station Almanac (S-246) and Differential eLoran Reference station almanac (S-247). These product specifications were updated to reflect a change in IALA Guideline 1106.

ENG Committee members have been invited to review the S-240 PS uploaded on the IALA website before ENG11 and provide comments so that they can be finalised at ENG11.

Working documents

- ENG10-14.3.10 S-240 DGNSS station almanac PS;
- ENG10-14.3.9 S-245 eLoran ASF data PS;
- ENG10-14.3.9.1 S-246 eLoran Station almanac PS; and
- ENG10-14.3.9.2 S-247 Differential eLoran Reference station almanac PS.

VTS

VTS 47 re-assessed the desired outcome of the product specification related to task VTS 2.3.1 and retitled the task to “Develop a Product Specification under the S-100 Framework for VTS” and as a consequence, the Committee assigned the number as S-212 to this Product Specification.

Working document

- VTS47-13.3.2 S-212 VTS Digital information service PS.



C70-8.4.1

Coordination with the IHO

Since the very beginning, IALA has been closely involved in development of e-Navigation and the common maritime data structure necessary to support it. It is expected that IALA will continue to play a leading role in coordinating S-200 specifications and data exchange formats that will underpin e-Navigation services in the future.

IALA has worked closely with IHO to kick off the development of S-200 product specifications and regular IALA/IHO technical coordination meetings are now in place. The 3rd IHO/IALA technical cooperation meeting report is attached C70-13.3.1.

THE COUNCIL IS REQUESTED TO

NOTE the information provided in this document.