

14th Meeting of the Hydrographic Services and Standards Committee

IALA Activities affecting HSSC

Agenda Item 7.3A

Minsu JEON, Technical manager IALA



IALA'S ROLE ON S-200 DEVELOPMENT

International Hydrographic Organization

- IHO has approved IALA as a Submitting Organization and Domain Controller
- IALA Product Specifications compliant with the IHO S-100 standard, use the numbering series S-201 to S-299

IALA Domain covers:

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

Publications

- IALA Rnnnn on S-200
- IALA G1106 on the Development of Product Specifications
- o IALA G1087 on the Management of the IALA Domain
- o IALA Gnnnn on the implementation guideline



DEVELOPMENT STATUS OF S-200 SERIES

International Hydrographic Organization

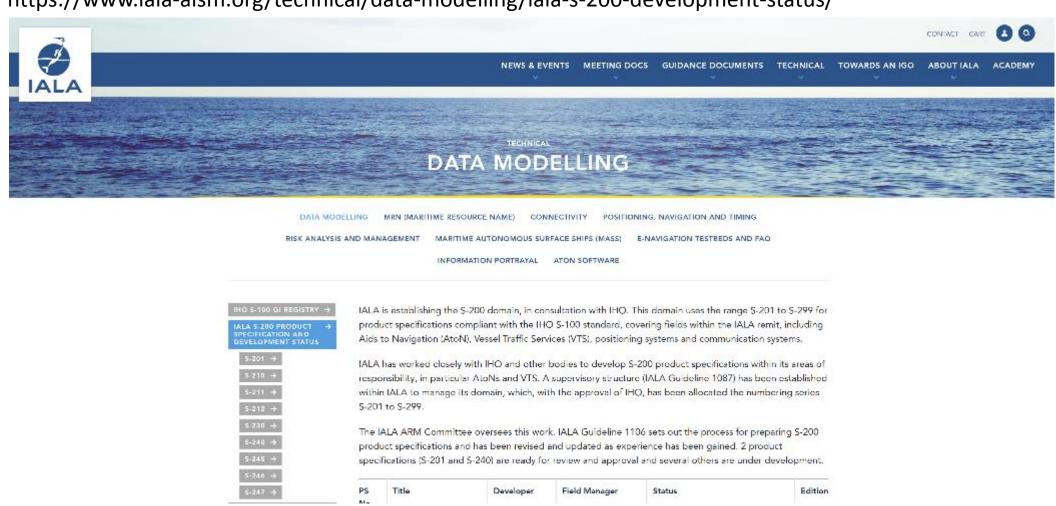
S-200 development summary table

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



IALA'S ROLE ON S-200 DEVELOPMENT

International Hydrographic Organization https://www.iala-aism.org/technical/data-modelling/iala-s-200-development-status/



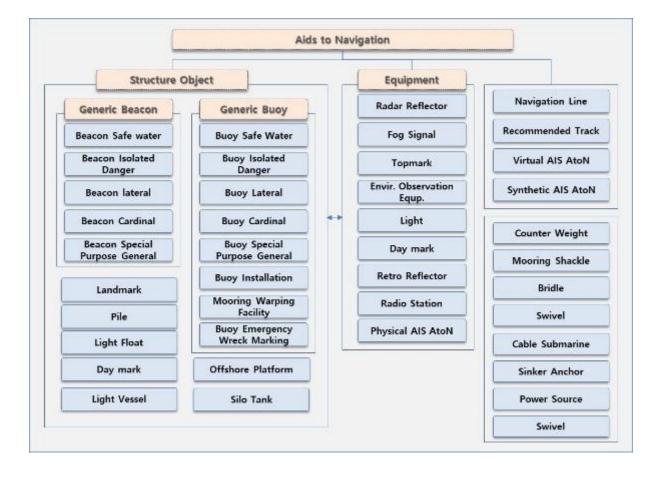


International Hydrographic Organization • Standardised method of exchanging information on AtoN between lighthouse authorities, hydrographic offices, and related organisations.

• The product contains the positions, properties, operational status and general

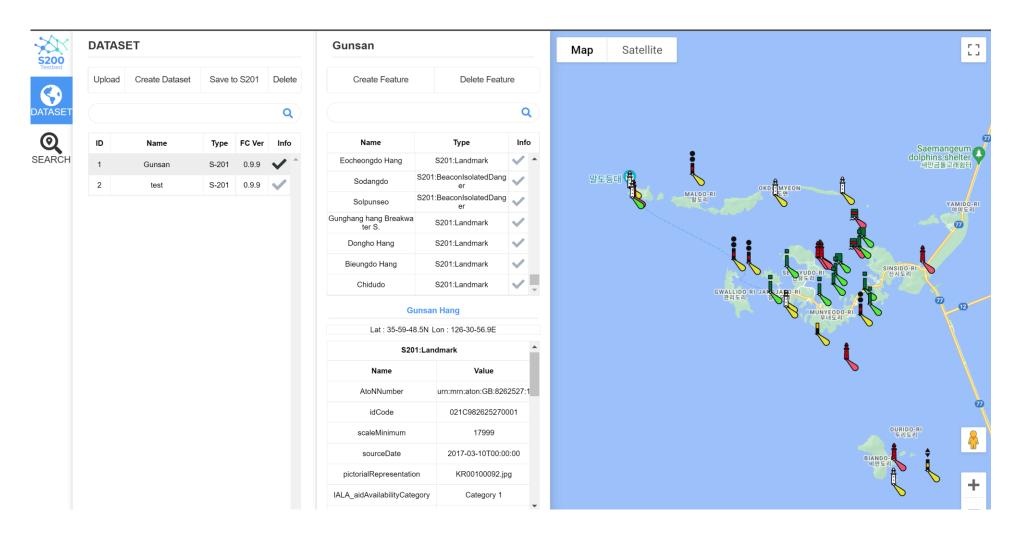
comments related to an AtoN





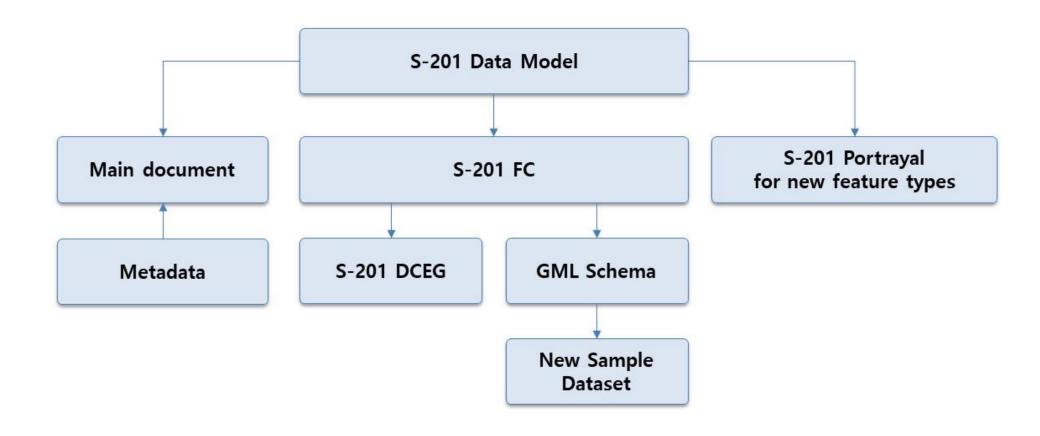


International Hydrographic Organization Testbed

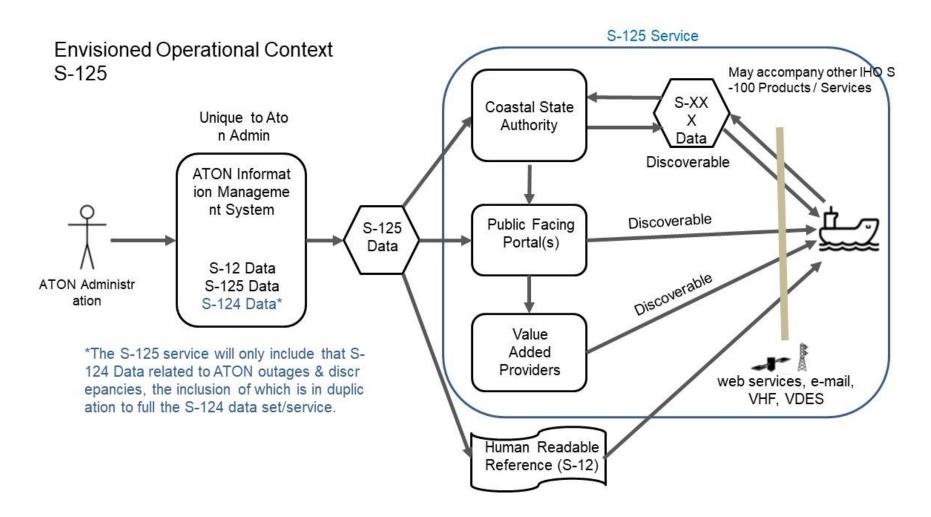




International Hydrographic Organization S-201 Data model



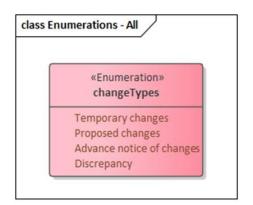
International Hydrographic Organization • S-201 and S-125





International Hydrographic Organization

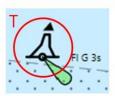
Portrayal

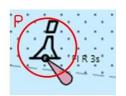


Change Types

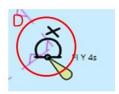
- 1. Temporary changes: T
- 2. Proposed changes: P
- 3. Advance notice of change: A
- 4. Discrepancy: D

(Option) Restored

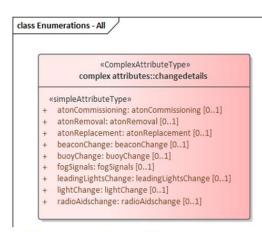








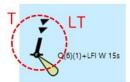














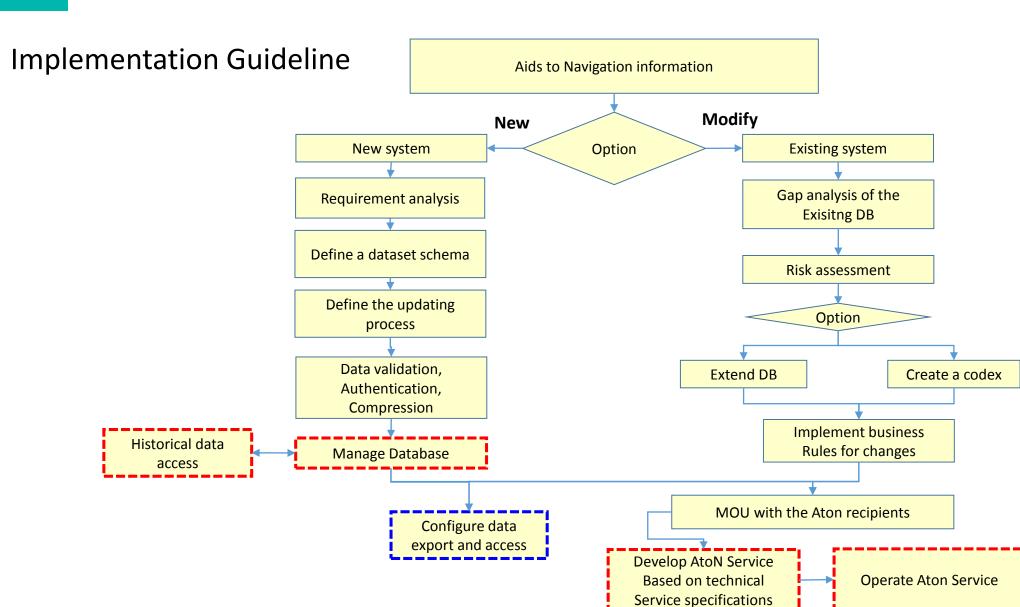
Change Details

- 4. Beacon Change (BE)
- 5. Buoy Change (BU)
- 6. Fog Signals (FS)
- 7. Leading Lights (LL)
- 8. Light change (LT)
- 9. Radio aids (RA)





International Hydrographic Organization





IHO S-212 VTS DIGITAL INFORMATION SERVICE

International Hydrographic Organization





In the scenario, ship and VTS location are
represented by virtual picture.

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VTS-INS draft Scenario

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IALA V-127 Operational Procedure

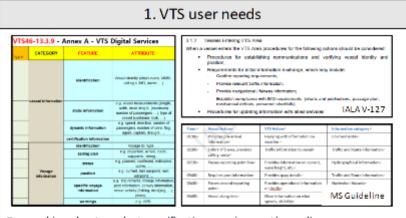
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IALA MS Guideline



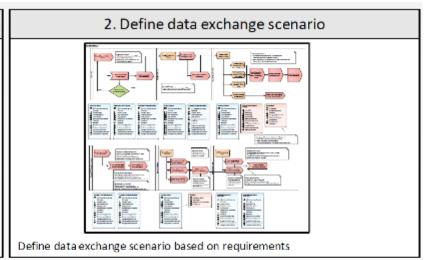
S-212 VTS DIGITAL INFORMATION SERVICE

International Hydrographic Organization



Researching about product specification requirement(=need)

- VTS46 result, MS Guideline, VTS Guideline, VTS operator's comment, SMCP

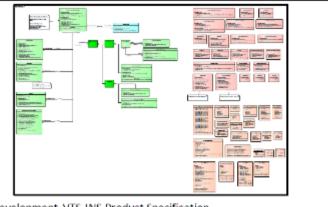


3. Define Features & Attributes

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Analysis another standard(5-101, 124, 127, 211, 412, 421) New feature for VTS determined

4. Product specification



Finally, development VTS-INS Product Specification



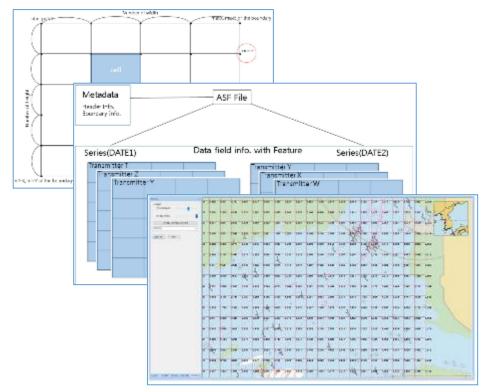
S-240 PNT SERIES

International Hydrographic Organization

- Position Navigation Timing Product Specification
- S-240 DGNSS station almanac
- S-245, 246, 247 eLoran ASF data, almanac, reference station



S-240 viewer



S-245 Additional Secondary Factor (ASF) data



JOINT IALA IHO WORKSHOP

International Hydrographic Organization

05 - 09 September 2022

Joint IALA/IHO workshop on S-100/200 development and portrayal

Norwegian Coastal Administration, Ålesund, Norway







The International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) and the International Hydrographic Organization (IHO) in association with the Norwegian Coastal Administration (NCA) are hosting a joint workshop on S-100/200 development and portrayal to be held in Ålesund, Norway, from 05 to 09 September 2022.



IHO IALA STRATEGY

International Hydrographic Organization

- IALA is developing and coordinating PS and data exchange formats that will underpin enavigation services in the future.
- Focus on the technical service and streaming of the data.
- S-200 Product Specifications reaching maturity and their use needs to be tested and promoted.
- Promote the S-200 Testbed and invite members to participate.
- Continue the IALA/IHO technical cooperation meeting.
- Joint IALA/IHO Workshop is planned to be held on 5-9 Sep 2022 in Ålesund, Norway.

HSSC is invited to note the information provided.