

S-100WG Letter 2/2024

July 29, 2024

*S-101, S-102 and S-129 Endorsement and Upcoming Meeting Logistics*

Dear S-100 Working Group Members,

Apologies in advance for the length and timing of this S-100WG letter as I recognize that most of our colleagues in the northern hemisphere are on summer holidays. As we all know, the various project teams under the S-100WG have been working diligently to prepare the operational editions of S-101, S-102 and S-129 for IHO endorsement and approval by the end of this year to align with the S-100 implementation timeline. I'm pleased to announce that we have reached the final steps in this work and the project teams are ready to seek the endorsement of the S-100WG Members so that it can move to HSSC Endorsement and then subsequent IHO Member State approval via Circular Letter.

**S-101, S-102 and S-129 Endorsement by the S-100WG**

The draft product specifications for S-100WG endorsement have been uploaded to the [IHO Geospatial Information Registry Testbed](#). The product specifications up for endorsement are:

- S-101 ENC Product Specification Edition 1.4.1 – The project team have opted to keep the edition numbering at 1.4.1 until after S-100WG endorsement and after that it will be changed to Edition 2.0.0 as it moves through the process.
- S-102 Bathymetric Surface Product Specification Edition 3.0.0
- S-129 Under Keel Clearance Management Product Specification Edition 1.2.0 - The project team have opted to keep the edition numbering at 1.2.0 until after S-100WG endorsement and after that it will be changed to Edition 2.0.0 as it moves through the process.
- Validation Checks for S-158:S-101 Edition 1.0 and S-158:129 Edition 1.0 – These files have been also uploaded in conjunction with the each product specification and these are considered mature enough to move forward with the endorsement process.

Please note that the S-158:102 will be available in due course as there is a contract in place to gather the validation checks and properly format them according to decisions made at S-100WG8. They will then go to the project team for review and endorsement prior to moving forward for S-100WG endorsement.

Noting that there is a quick turnaround on the endorsement of S-101, S-102 and S-129, I am kindly requesting for the S-100 working groups endorsement by **August 23<sup>rd</sup> 2024**. No response will indicate approval. If there are any major issues please use the attached comment form and send it to [Julia.Powell@noaa.gov](mailto:Julia.Powell@noaa.gov) and [Yong.Baek@iho.int](mailto:Yong.Baek@iho.int). This will give the project teams two weeks to resolve any outstanding issues prior to submission to HSSC.

## **Decisions and Outcomes from HSSC for the S-100WG**

I would also like to draw your attention to the decisions and outcomes from HSSC16 held in May 2024. Several of these will require action prior to the upcoming S-100WG9 meeting in November 2024. The HSSC actions are captured in Annex A of this letter.

### **S-121 Project Team**

One of the actions from HSSC was to reinvigorate the S-121 Project Team and progress the specification to an edition 2.0.0 in line with S-100 Edition 5.2.0. We recognize that over the past few years the S-100WG has been focused on specifications related to an operational S-100 ECDIS, however, there is still a need to continue the work of S-121 for use by DOALOS. Mr. Mark Alcock will continue to lead the S-121 Project Team and at this time we are asking to reconfirm your interest in participating in the development of S-121. Please send your interest (or the appropriate subject matter expert's name) to [Yong.Baek@iho.int](mailto:Yong.Baek@iho.int).

### **Announcement of the S-100WG9 Meeting in Genoa, Italy**

Lastly, I'm pleased to announce that Istituto Idrografico of Italy has finalized [logistic details](#) for the upcoming S-100WG9 meeting in Genoa, Italy. The main S-100WG meeting will be held from **November 4 – 7<sup>th</sup>** and there will be an S-102 PT and S-129PT meeting held from **November 7<sup>th</sup> – 8<sup>th</sup>**. Please note that the ICE PT meeting will also be held on November 8<sup>th</sup>. The draft agenda, timetable and logistics information have been posted on the IHO Portal under the S-100WG. You will need to set up an IHO Portal Account to access the information. Please follow the instructions at this [link](#) and the portal can be accessed [here](#).

Registration for the meeting must be completed by October 4<sup>th</sup> through the IHO Portal. Please follow the instruction provided at this [link](#). Late registration requests will require coordination with the host organization regarding the venue and other arrangements, so please adhere to the deadline.

Please note that papers for consideration of the S-100WG must be submitted by **October 4<sup>th</sup>** in order to give delegates enough time to consider the issue. Additionally, comment papers related to the agenda should be submitted by October 23<sup>rd</sup>.

Many apologies for this long letter and I'm looking forward to seeing everyone at the next S-100WG meeting in Genoa.

Yours sincerely,



Julia Powell  
(IHO – S-100WG Chair)

## Annex A: List of HSSC Decisions and Action affecting the S100WG

5.1 S-100 (S-100WG)					
S-100WG Structure	HSSC16/27	<b>HSSC</b> tasked <b>ICE PT</b> to consider how systems currently managed under the S100P should move to the IHO Infrastructure Centre.	<b>HSSC-17</b>		
SENC	HSSC16/28 (former HSSC15/20, ..., HSSC13/27)	<p><b>HSSC</b> noted the paper from UK on performing further testing to confirm if SENCs delivery is needed or not for S-100.</p> <p><b>HSSC</b> noted the joint comment paper from FR, CA, HR, EE, FI, DE, LV, NO, PL, ROK, SE, US and PRIMAR, which agreed with S-100WG Chair that SENC delivery is not needed for S-100 and raised concerns related to the S-100 Part 15 security scheme in conjunction with potential SENC delivery.</p> <p><b>HSSC</b> concluded that further testing should focus on determining if S-100 Part 15 is feasible for use for data distribution, ensuring that the digital signature is retained from the issuing data producer and verified in the end user system.</p> <p><b>HSSC</b> tasked the <b>S-100WG</b> to report the testing result as guided by HSSC above.</p>	<b>S-100WG9/ (HSSC-17)</b>	<b>Decision</b>	



<p>S-100 Ed. 5.2.0</p>	<p>HSSC16/29</p>	<p>Based on the provisional outcome of IHO CL 18/2024 provided by the IHO Secretariat (36 affirmative votes in support so far), <b>HSSC Chair</b> announced that S-100 Ed. 5.2.0 had been adopted by the IHO Member States, meeting the tight milestone for S-100 Phase 1 operational planning.</p> <p><b>HSSC</b> commended the <b>S-100WG</b> and contributors for all the efforts made in this process and thanked the <b>IHO Member States</b> who had responded to the CL 18/2024.</p>		<p><b>Decision</b></p>
<p>S-98, S-164</p>	<p>HSSC16/30 (former HSSC15/13)</p>	<p><b>HSSC</b> noted that S-98 and S-164 development are on the critical path with medium risk to not meeting the 2025 deadline for their Ed. 2.0.0.</p> <p>Planning to seek <b>HSSC</b> endorsement of Ed 2.0.0 at HSSC-17 in May 2025, and if endorsed, IHO MS approval by CL will follow accordingly.</p> <p>The special note on S-98 (slide 12/48) providing comments on S-57 versus S-101 in S-100 ECDIS was explained and noted</p>	<p><b>HSSC-17</b></p>	<p><b>Decision</b></p>



				Decision
S-158	HSSC16/31	<p><b>HSSC</b> agreed on the proposed structure for S-158:</p> <ul style="list-style-type: none"> <li>• S-158 Introduction and Structure</li> <li>• S-158:100 ed 1.0.</li> <li>• S-158:98 ed 1.0.</li> <li>• S-158:101 ed 1.0.</li> <li>• S-158:102 ...</li> <li>• S-158:104, ...etc.</li> </ul> <p>and on the management of these parts by individual HSSC WGs/PTs (development, submission, endorsement, approval), and noted the high risk of not meeting the deadline.</p>		
S-100 ECDIS Dual Fuel	HSSC16/32	<p><b>HSSC</b> noted the work in progress by the <b>S-100WG</b> supported by <b>NIPWG</b>, <b>TWCWG</b> and <b>WENDWG</b> to prepare amendments to the current version of the Dual Fuel Concept for S-100 ECDIS.</p> <p><b>HSSC Chair/S-100WG Chair</b> to finalize the proposed amendments for submission to <b>Council</b>.</p>	<b>15 July for C-8</b>	
S-100 Infrastructure Tools	HSSC16/33	<p><b>HSSC</b> noted the information provided on the S-100 Infrastructure Tools (S-100 GI Registry, Feature and Portrayal Catalogue Builders, DCEG Composer, Symbol Editor,...) and the associated update schedule.</p>		
S-102	HSSC16/34	<p><b>HSSC</b> noted the estimated completion date for draft Ed. 3.0.0 of S-102 (June 2024) aligned with S-100 Ed. 5.2.0, including a “light” impact study and welcomed the compatibility with GDAL.</p>	<b>Aug 2024</b>	
S-102	HSSC16/35 (former HSSC15/18)	<p><b>HSSC</b> noted the intention to create a separate S-1xx spec number for non-navigation purposes. To be decided after S-102, Ed. 3.0.0 is published.</p>	<b>2027</b>	



S-102	HSSC14/22	<b>HSSC endorsed</b> the suspension of IHO Resolution 2/2007 for S-102 Ed. 2.2.0 until Ed. 3.0.0 to allow for iterative development to align with S-98, S-101 and S-104 (each of which are at a Ed. 1.0.0 stage).		Decision Reminder
S-129	HSSC16/36	<b>HSSC</b> noted the medium risk to not meeting 2024 Ed. 2.0.0 publication date.		
S-121	HSSC16/37	<b>HSSC</b> tasked <b>S-100WG/S-121PT</b> to restart the activity of the PT for moving towards an operational edition, which is expected by UN DOALOS.  <b>S-100WG/S-121PT</b> to meet and provide their consolidated action plan to <b>HSSC</b> for endorsement.	<b>July 2024</b>	
Future of S-101PT, S-102PT, S-129PT	HSSC16/38	<b>HSSC</b> agreed on the recommendation from <b>S-100WG</b> that S-101PT, S-102PT and S-129PT should remain active until these products are fully operational and start to be used on the first S-100 ECDIS. Then, consideration to be given on any new HSSC WG Structure from 2027 onwards.	<b>HSSC-18/-19</b>	Decision



Versioning of PS components	HSSC16/39	<p><b>HSSC</b> noted the concerns raised about the versioning of feature and portrayal catalogues, recommending that the 1<sup>st</sup> two digits should always be the same.</p> <p>On the need to review IHO Resolution 2/2007 to be able to issue an update to the machine-readable portion of the specification to “quickly” correct an error, <b>HSSC</b> had mixed feelings and agreed to monitor this requirement for the next couple of years and decide identify once more experience has been gathered.</p>	<b>HSSC-18/-19</b>	
S-97, S-65, possibly S-165	HSSC16/40	<b>HSSC</b> noted the thoughts on S-97 updates and S-65 (possibly S-165) to provide guidance on production, maintenance and distribution for multiple S-1xx products and agreed to keep these issues on stand-by for the moment.	<b>HSSC-18</b>	
S-1OOP	(former HSSC 15/22, ..., HSSC12/19B)	<p><b>HSSC</b> noted the establishment of the S-1OOP (S-100 Open Online Platform), commended the ROK for their initiative and encouraged Member States to engage and provide test data.</p> <p><b>HSSC</b> invited <b>KHOA</b> to consider the development of a basic “getting started guide”.</p>	<b>HSSC-16</b>	IHO CL 12/2021 refers Closed. ICE PT responsible for transition into IHO Infrastructure Centre
S-101	HSSC16/41	<b>HSSC</b> noted the delivery plan for Ed. 2.0.0 of S-101 PS and commended the S-101PT for their hard work.		





S-101	HSSC16/42	<b>HSSC</b> also noted the challenges and risks on the way to Ed. 2.0.0 (Resource <i>Medium</i> , Testbeds and Testing <i>High</i> , Dependencies <i>High</i> ).		
S-101	HSSC16/43	To avoid time consuming manual effort, <b>HSSC</b> endorsed the <b>S-100WG/S-101PT</b> 's proposal to make, as an exception, a bulk update of ENC related symbols including S-401 in the GI Registry outside the normal procedure given in S-99.		<b>Decision</b>
S-101	HSSC16/44	<b>HSSC</b> noted that <b>IHO-Singapore</b> Tech Lab is considering supporting S-101 test as requested by S-101PT.	<b>HSSC-17</b>	
S-100 Sea Trial Area	HSSC16/45	<p><b>HSSC</b> welcomed the offer from Canada and endorsed the proposal made to designate the St Lawrence River as an IHO Canada S-100 Sea Trial Area (2024-2025).</p> <p><b>HSSC Members</b> willing to contribute and participate to contact Canada's HSSC representative.</p> <p><b>HSSC</b> agreed to consider the designation of additional IHO Sea Trial Areas for testing, some already active (IHO Baltic Sea Sea Trial Area, IHO UK-FR Channel Sea Trial Area, ....).</p> <p><b>HSSC Chair</b> to propose the IHO Sea Trial Area concept to Council 8.</p>	<p><b>HSSC-17</b></p> <p><b>C-8</b> (concept to be developed)</p>	<b>Decision</b>



S-100 TestBed	HSSC16/46	<b>Canada</b> in collaboration with <b>S-100WG/IHO Secretariat/ISO Cell</b> to improve the report template of S-100WG for the testbed activity, and <b>IHO Secretariat</b> to post TDS and information related to S-100 on the IHO website.	<b>HSSC-17</b>	
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