

Attendees:

Member State	Organization	Personnel
Brazil	Brazilian Navy Hydrographic Center	César Reinert Bulhões de Moraes, Flávia Mandarino, Marcelo Medeiros Carneiro
Canada	Canadian Hydrographic Office	Lynn Patterson
Denmark	Danish Geodata Agency	Hans Christoph Schreyer
UK	UK Hydrographic Office	Tom Richardson
US	National Oceanic and Atmospheric Administration	Julia Powell
US	US Naval Oceanographic Office	David W Brazier
	CARIS	Hugh Astle
	IIC Technologies	Edward Kuwalek
	International Hydrographic Bureau	Anthony Pharaoh

References:

- a. S-102Sub-WG Minutes 03 February 2015
- b. TSMAD27 6.1 S-102 Update and Sub Working Group
- c. S-102 Sub-working group minutes from 20 Jan 2015 telecom
- d. TSMAD29/DIPWG7 11.3A S-102 Specification Update Impact Study

Discussions/Decisions:

- Discussions started with S-102 portrayal. During TSMAD27 two coloring options were inserted into the draft version of the S-102 product spec. Since the primary focus of the product specification is safe navigation the group chose to strike statements discussing scientific applications. The group agreed to address scientific applications at a later date in a future version of S-102.
 - In response to this direction the group chose to strike the following statement from section 9.1 Portrayal Introduction: *1. Ramp of colors cut into the ENC replacing skin-of-the-Earth features*
 - With a singular focus of safe navigation identified there is a need to complete the section dealing with the portrayal of a safe/unsafe coverage layer.
 - The group recognizes that the deletion of scientific use cases will impact future interoperability of S-102 information.
- With the proposed direction to focus on safe navigation the group recognizes that the entire S-102 product specification needs to be sanitized of scientific use cases.
 - Additionally, IIC Technologies suggested that the product specifications title is expanded to include the statement “for navigational purposes”.
- The group additionally focused on the file size limit of 10MB in response to a presentation from the Norway stating that the 10MB limit was too small. The group recognizes that there is a need to set a file size limit to support transmission of S-102 surfaces to at-sea platforms. Additionally the group understands that the file size limit shouldn't impact usability of the surface.

- At this time the group chose to hold on to the 10MB limit currently stated in the draft 2.0.0 specification. The group will re-evaluate size limits post 2.0.0 approval.
- The group also recognized the need to re-visit the relationship between chart scale and grid resolution at a later date.
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- Discussions then ensued on exchange set/discovery metadata. The decision was made to inherit the S-100 exchange set mechanism and extend it as necessary.
- Digital Signature / encryption were also discussed. The decision was made to, in the interim use the S-63 capabilities as documented in the S-101 draft. However, it was also decided that S-63 has deficiencies and must also be updated. The standard needs to be migrated to S-100. Those issues will be addressed by the S-100 Working Group.
- Maintenance was then addressed. It was decided the maintenance would be a “file” replacement. A clause needs to be added to S-102 to address this issue.
- Discussions on the optional layers in S-102 ensued. While suggestions were made in reference b to remove optional layers, it was decided here to leave them in and ensure they are documented. However, one member suggested allowing the capability of adding other layers such as “Bottom Type”. After discussions it was decided this is not an attribute of bathymetry and needed a different product specification.
- Discussions then started on Portrayal. While the group phased in and out of discussions on simply portraying bathymetric gridded data and its impact on the S-101 underlying bathymetric features (soundings, depth curves, etc.) several decisions were made. First, the product specification needs to include a portrayal clause which defines two types of portrayal: 1. Ramp of colors cut into the ENC replacing skin-of-the-Earth features; 2. A two color scheme depicting safe/unsafe waters based on a mariner provided context parameter. It was decided that further guidance on S-1xx product interaction needs to be addressed at the S-100 Working Group level.
- The last discussion was on encodings. Reference b also recommended allowing additional encodings in addition to HDF. It was decided that the spec should only have one encoding and should stay with the established HDF5.

Action Items:

Number	Description	Resp. Party	Due Date
2_15-1	Add clause describing file naming and size conventions.	S-102 Project Team	
2_15-2	Add clause defining S-102 exchange set and catalog. The exchange set will be inherited from S-100 and include discovery metadata.	S-102 Project Team	
2_15-3	Add clause describing Digital Signature and encryption mechanism as is currently defined in S-63.	S-102 Project Team	
2_15-4	Propose that S-63 be incorporated into S-	S-102 Project	S-100 WG

	100 to allow use by S-1xx Product Specifications	Team	meeting (Sept 2015)
2_15-5	Add Clause describing maintenance for S-102 products	S-102 Project Team	
2_15-6	Modify clause(s) to ensure additional layers are defined appropriately	S-102 Project Team	
2_15-7	Add a portrayal clause as defined in the minutes from 03 Feb 2015. Include the point portrayal from the Tracking List.	S-102 Project Team	
2_15-8	Add annex defining validation checks	S-102 Project Team	
2_15-9	Add Feature and Portrayal Catalogs	S-102 Project Team	
2_15-10	Create an S-100 Exchange Set Schema as part of the schema repository	S-100 WG	

Next Meeting TBD.