



Hydrographic Services and Standards Committee

Report of the TSMAD working Group

To HSSC6

November 2014

Principal activities and achievements

- ✦ S-100 Edition 2.0.0
 - Incorporates corrections, clarifications and extensions to accommodate the development of new product specifications.



Principal activities and achievements

✦ S-100 Edition 2.0.0 - Changes

S-100 #	Part Name	Description	Change Type
1	Conceptual Schema Language	Added Support for: <ul style="list-style-type: none"> • Codelists • truncated datetime types • Uniform Resource Identifiers 	Extension
2A	Feature Concept Dictionaries	Added Support for: <ul style="list-style-type: none"> • Codelists • truncated datetime types • Uniform Resource Identifiers 	Extension
3	General Feature Model	Added Support for: <ul style="list-style-type: none"> • Codelists • truncated datetime types • Uniform Resource Identifiers • Expanded Roles 	Extension
4A	Metadata	Inclusion of metadata schemas and clarification of the S-100 catalogue UML model	Correction
5	Feature Catalogue	Added Support for: <ul style="list-style-type: none"> • Codelists • truncated datetime types • Uniform Resource Identifiers • New Spatial Types (ArcByCenterPoint, CircleByCenterPoint) 	Extension
7	Spatial Schema	Added Support for: <ul style="list-style-type: none"> • New Spatial Types (ArcByCenterPoint, CircleByCenterPoint) 	Extension
9	Portrayal	Inclusion of the S-100 Portrayal Model	Extension
10A	ISO-IEC 8211 Encoding	Corrections to the ISO 8211 encoding	Correction
10B	GML Encoding	Inclusion of GML as an available encoding format	Extension
11	Product Specifications	Inclusion of the S-10X template for building new product specifications	Extension
12	Maintenance Procedures	Alignment of procedures to S-99	Correction



Principle activities and achievements

- ✦ S-100 Edition 2.0.0
- ✦ It is recommended that HSSC endorse S-100 and send it out via IHO Circular Letter for Member State approval.



Principle activities and achievements (S-101)

- ✦ S-101 Roadmap has been updated taking into account the actions assigned by HSSC
- ✦ Progress has been made on various components to S-101

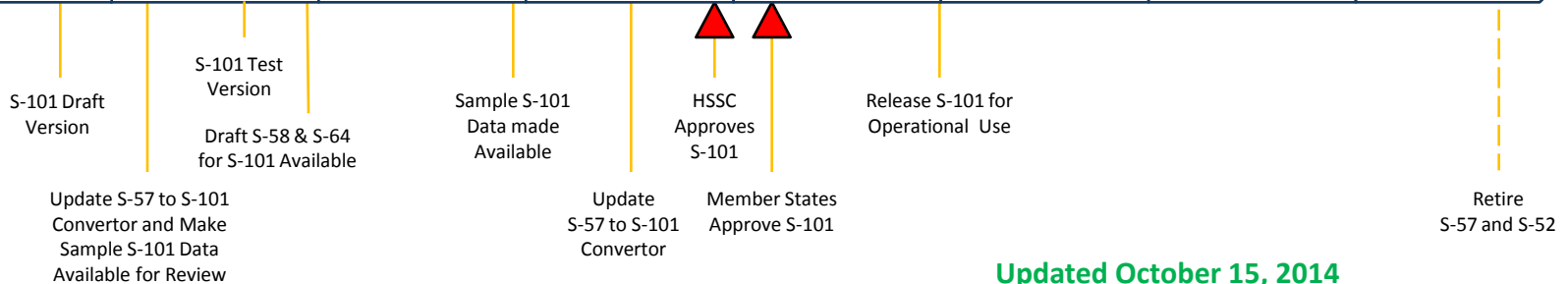
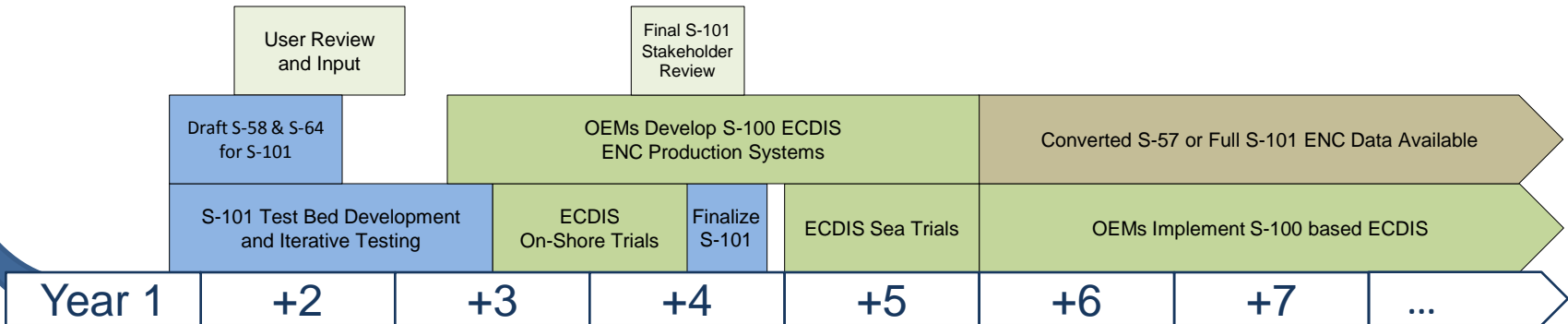
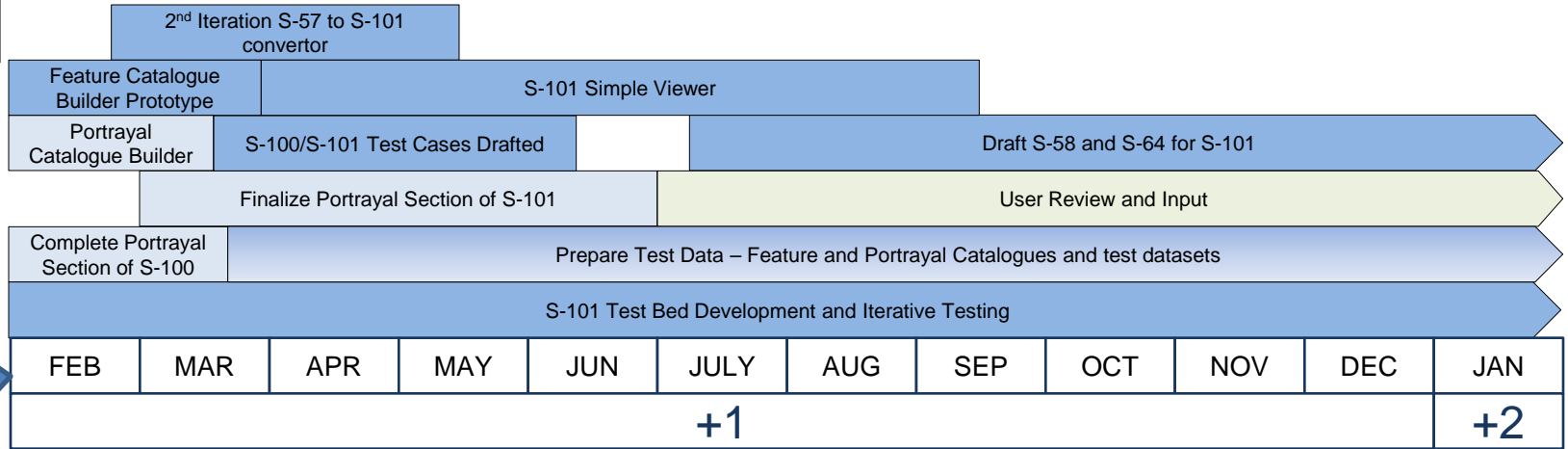
S-101 Component	Current Status	Comment
Main Document	Baselined – April 2014	Will be sent out for TSMAD/DIPWG + Stakeholder Review in September 2014
Data Classification and Encoding Guide	Baselined – April 2014	
8211 Annex	Baselined – April 2014	
Feature Catalogue	Baselined – September 2014	Created using the Feature Catalogue builder that has been developed by KHOA
Portrayal Catalogue	In Progress (estimated Feb 2015)	Portrayal Catalogue builder has been developed. Needed to wait until a baseline Feature Catalogue was developed
Implementation Guidance	In Progress	Will continue to be refined during the S-101 test bed process
Validation Checks	TBD	



Responsible Party

- Stakeholders
- HOs
- OEMs
- TSMAD
- DIPWG

S-101 Development and S-100 Testbed Timeline



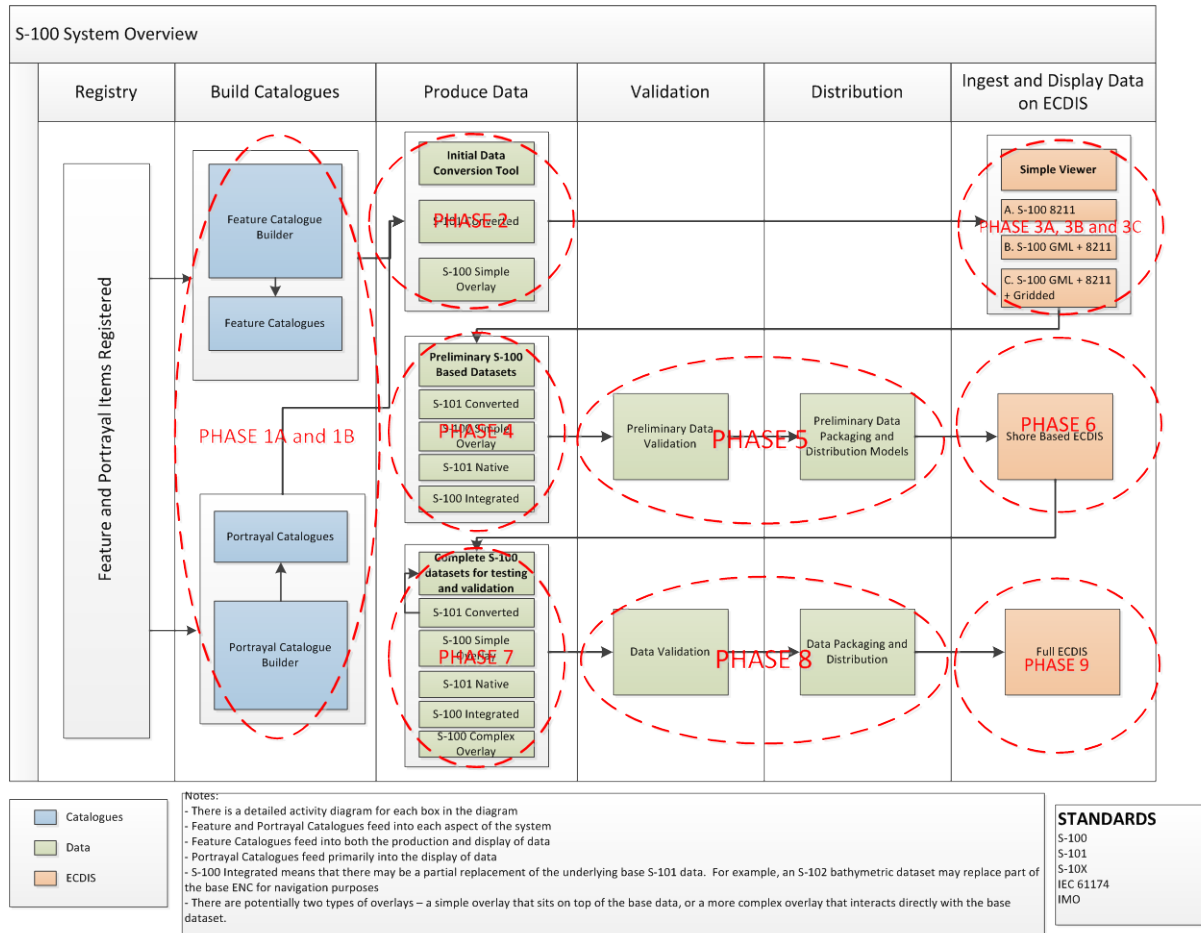
Updated October 15, 2014

Principle activities and achievements

- ✦ S-100/S-101 Test Beds
- ✦ Developed an overarching Test Bed Strategy
- ✦ Test Bed is S-100 based and will be capable of testing any S-100 product specification
- ✦ Split into 9 major phases
- ✦ IHB Contract to create test cases for the Feature Catalogue Builder, Portrayal Catalogue Builder, Simple Viewer and S-101 completed



S-100 Test Bed



S-100 Test Bed

✦ Status of Phases

#	Phase Name	Status	Comment
1A	Feature Catalogue Builder	Completed	<ul style="list-style-type: none">• Development done by KHOA• S-100 Test Cases Written
1B	Portrayal Catalogue Builder	Completed	<ul style="list-style-type: none">• Developed under IHB Contract• S-100 Test Cases Written
2	Simple Production Tool	In Progress	<ul style="list-style-type: none">• S-57 to S-101 Convertor• Joint NOAA/ESRI initiative
3A	Simple Viewer (ISO 8211)	In Progress	<ul style="list-style-type: none">• S-100 Test Cases Written
3B	Simple Viewer (ISO 8211 + GML)	Not Started	<ul style="list-style-type: none">• Initial Scoping Required
3C	Simple Viewer (ISO 8211 + GML + Gridded Data)	Not Started	<ul style="list-style-type: none">• Initial Scoping Required
4	Preliminary Production Tool	Not Started	<ul style="list-style-type: none">• Initial Scoping Required
5	Preliminary Data Validation and Packaging	Not Started	<ul style="list-style-type: none">• Initial Scoping Required
6	Shore Based ECDIS	Not Started	<ul style="list-style-type: none">• Initial Scoping Required
7	Full Production Tool	Not Started	<ul style="list-style-type: none">• Initial Scoping Required
8	Data Validation and Packaging	Not Started	<ul style="list-style-type: none">• Initial Scoping Required
9	Full ECDIS	Not Started	<ul style="list-style-type: none">• Initial Scoping Required



S-102

- ✦ It was noted at both TSMAD27 and TSMAD28 that there are gaps within S-102 that need to be addressed
 - Changes to the Bathymetric Attributed Grid
 - Metadata Improvements
- ✦ TSMAD recommends HSSC approve the preparation of a new edition of S-102 for HSSC approval in 2015



Principle activities and achievements

- ✦ S-57 – no active proposals
- ✦ S-64 – out for MS approval
- ✦ S-58 – Officially published in June 2014
 - No official in force date has been determined
 - TSMAD recommends that the HSSC set an in force date in alignment with S-64 and S-52 as to give the validation packages time to implement the revised checks and MS to implement the new checks



Principle activities and achievements

- ✦ S-10X template and guidebook how to develop S-100 based product specifications
 - S-10X template has been completed and is included as an Annex to Part 11 of S-100
 - Work is ongoing on the development of a "guidebook"



HSSC5 Actions

- ✦ All outstanding HSSC actions are complete with the exception of the following:

3	Use of the Object Catalogue - Guidance on T&P ENC Updates	HSSC5/03	TSMAD to take into consideration the comments reported in paper HSSC5-INF2 (Appendix to Annex A), for inclusion in the next edition of the Use of the Object Catalogue (S-57, Appendix B.1, Annex A).	In Progress
5.8	Tidal Product Specification	HSSC5/51	TSMAD to assist the TWLWG in the development of a tidal product specification for navigational surface and tidal data transfer that could be used for generating dynamic water levels and navigational surfaces in ECDIS.	In Progress



Problems or outstanding issues

- ✦ No major problems encountered
- ✦ TSMAD is thankful to the MS and expert contributors that support the work of S-100 and S-101, without that support progress would be very limited



Future work programme

- ✦ S-100/S-101 Test Bed Development
- ✦ S-101 ENC Product Specification Development and Testing
- ✦ Prepare a new edition of S-102



Action requested of HSSC

- ✦ note this report and approve the continuance of the Work Plan
- ✦ Endorse S-100 Edition 2.0.0 and send it out via IHO Circular Letter for Member State approval.
- ✦ Endorse the proposed registry procedure for the allocation of S-100 product specification identifiers including the modification to S-99 and to the GI Registry.
- ✦ Approve the work on a new edition of S-102
- ✦ Discuss the need to set an "in force" date for S-58.

