

Paper for Consideration by TSMAD

S-101 Project Plan, Progress, and Gap Analysis

<i>Submitted by:</i>	S-101 Work Item Leader
<i>Executive Summary:</i>	This Paper is intended to update TSMAD members on the progression of S-101, promote discussion regarding completion timelines and to discuss potential gaps in the project.
<i>Related Documents:</i>	S-101
<i>Related Projects:</i>	N/A

Introduction / Background

S-101 is taking an iterative approach and is broken out into four phases. The phases are as follows:

Phase 1: S-57 content equivalent. It will contain only those features that are currently defined in S-57, but use complex attributes, information types and compound geometry.

Phase 2: Enhanced Packaging and Data Loading Mechanisms. This phase builds on phase 1, yet adds in functionality for new support file formats and functionality to update text files. In this phase the entire set is packaged into a complete exchange set.

Phase 3: Extending the Model. This phase builds on the previous phases and extends the data model to include additional complex attributes and information types. In addition, this phase will explore the use of cartographic attributes.

Phase 4: Scalability. This phase represents Version 1.0 of S-101. By the completion of this phase the open source translator must be able to take an existing S-57 dataset and translate it into an S-101 dataset. TSMAD will provide the final S-57 to S-101 Feature Catalogue mapping.

At this point TSMAD is making progress on S-101 at this point TSMAD needs to start thinking about realistic timelines for completion of S-101.

Analysis/Discussion

Phase 1 was completed in December 2010 and the subsequent document was sent out for comments. Two sets of comments were received and will be adjudicated at this meeting.

In addition, NOAA has contracted ESRI to provide an open source S-57 to S-101 translator to be turned over to the IHO when completed. This work is an important step forward in providing initial test data for S-101, but also enabling the IHO to have a proper phase in date for S-101 as there will be a period of time where there will be S-57 and S-101 based ECDIS systems in operation. The convertor will be demonstrated at this meeting.

The current Phase 2 deliverables are:

- S-101 Phase 2 Product Specification
- S-101 Phase 2 Feature Catalogue
- S-101 Phase 2 Portrayal Catalogue
- S-101 Exchange set with updates

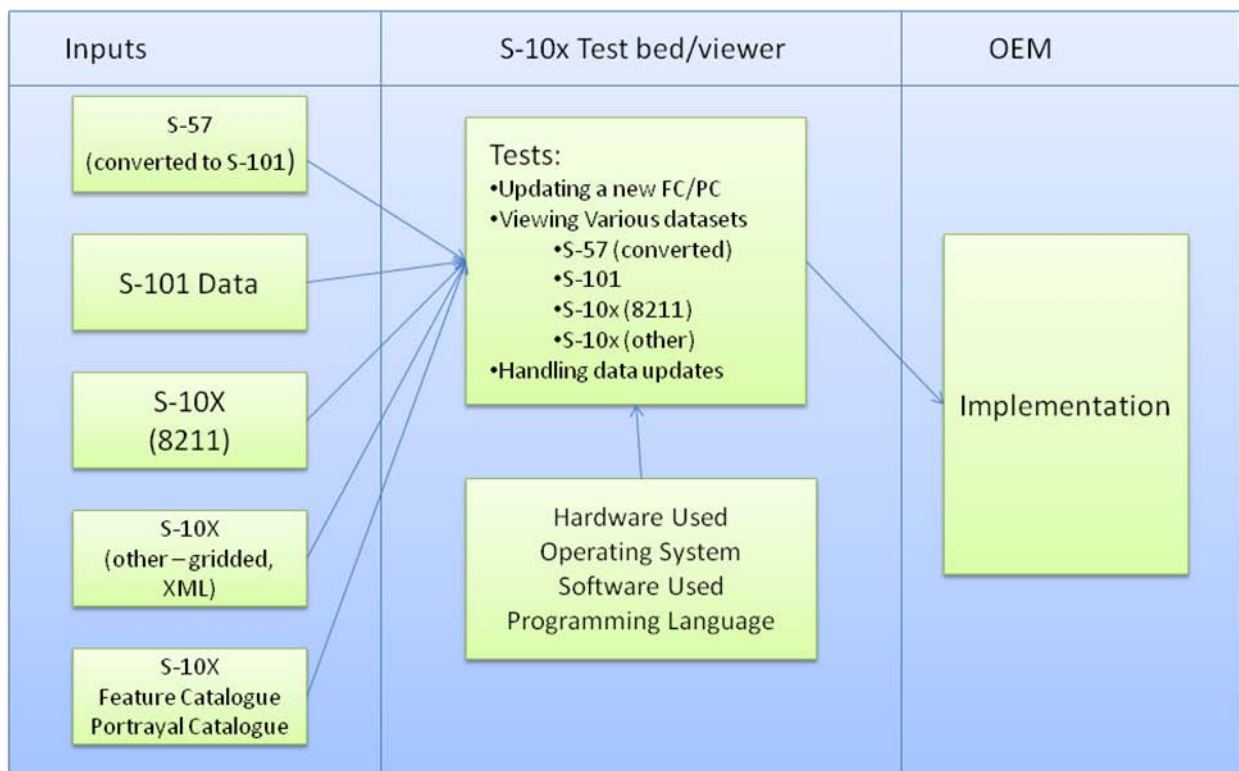
The expected completion date is August 2011.

As S-101 is dependent on the content of the feature and portrayal catalogue, TSMAD and DIPWG need to begin the following:

- Compare the S-101 FC and the S-101 PC against each other and verify if the linkages are correct
 - Go through S-52 and identify what we need to keep
 - Start looking at the data encoding to make it easier to model
 - Look at the most complex CSP's to make it more effective with portrayal, and new features
- Recommend if there are new features needed to improve portrayal – new complex attributes, information types, cartographic features
- Recommendations to eliminate ? Symbol
- Focus on the areas that are difficult to display and improve them
- Review all the master/slave situations in S-57 and decide if there is a better way to handle them.

One of the largest items to recently come up is the need for an S-101 testbed and viewer. This is important, so that TSMAD/DIPWG can work out all of the potential issues for S-101 prior to finalization.

S-10X Test Bed



Tentative S-101 Project Plan and Schedule

Based on an estimated December 2012 completion date for S-101 and the multi-phase approach, a tentative schedule has been developed.

Conclusions

While S-101 is progressing with the completion of phase 1, TSMAD still needs to plan for phase 2, 3 and 4 and final publication of the standard and recommend an appropriate transition plan from S-57 to S-101.

Recommendations

It is recommended that TSMAD/DIPWG form inter-sessional correspondence groups to focus on the following areas:

- Compare the S-101 FC and the S-101 PC against each other and verify if the linkages are correct
 - Go through S-52 and identify what we need to keep
 - Start looking at the data encoding to make it easier to model
 - Look at the most complex CSP's to make it more effective with portrayal, and new features
- Recommend if there are new features needed to improve portrayal – new complex attributes, information types, cartographic features
- Recommendations to eliminate ? Symbol
- Focus on the areas that are difficult to display and improve them
- Review all the master/slave situations in S-57 and decide if there is a better way to handle them.

Action Required of TSMAD

The TSMAD and DIPWG is invited to:

Discuss the proposed correspondence groups










Nominate a correspondence group leader and members to report at the next TSMAD or DIPWG meeting where appropriate

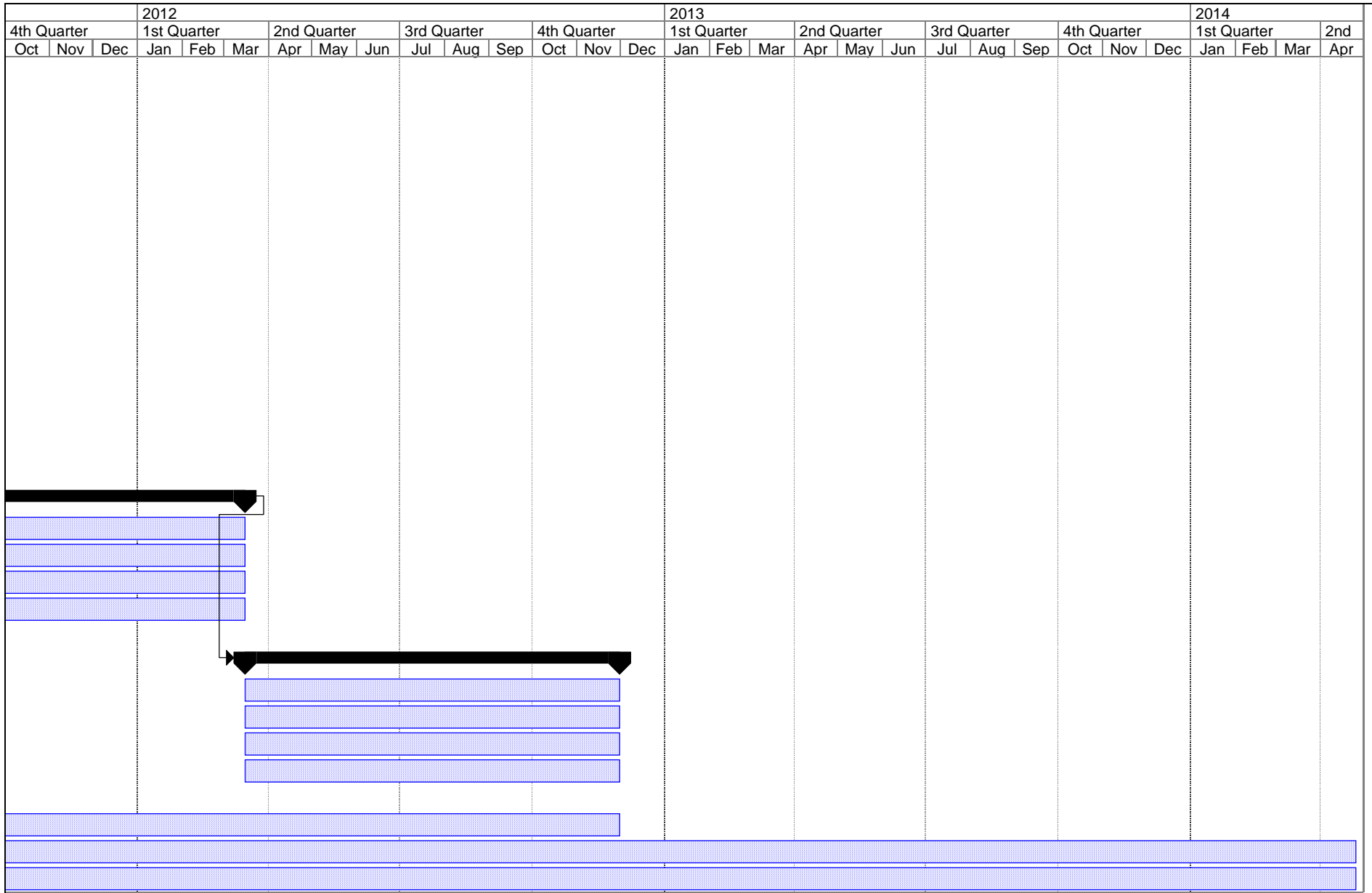
ID	Task Name	Duration	Start	Finish	2011											
					4th Quarter			1st Quarter			2nd Quarter			3rd Quarter		
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	Phase 1 - S-57 content equivalent	40 days?	Mon 11/8/10	Fri 12/31/10												
2	S-101 Phase 1 Product Specification	40 days?	Mon 11/8/10	Fri 12/31/10												
3	S-101 Phase 1 Feature Catalogue	40 days?	Mon 11/8/10	Fri 12/31/10												
4	S-101 .000 file	40 days?	Mon 11/8/10	Fri 12/31/10												
5																
6	Phase 1.5 - S-57 to S-101 Convertor	100 days?	Mon 11/8/10	Fri 3/25/11												
7																
8	Scale Independent and Scale Dependent Analysis	110 days?	Mon 11/8/10	Fri 4/8/11												
9	Scale Independent and Scale Dependent Decision Poir	1 day?	Mon 4/11/11	Mon 4/11/11												
10																
11	Phase 2 - Enhanced Packaging and Data Loading I	170 days?	Mon 1/3/11	Fri 8/26/11												
12	S-101 Phase 2 Product Specification	170 days?	Mon 1/3/11	Fri 8/26/11												
13	S-101 Phase 2 Feature Catalogue	170 days?	Mon 1/3/11	Fri 8/26/11												
14	S-101 Phase 2 Portrayal Catalogue	170 days?	Mon 1/3/11	Fri 8/26/11												
15	S-101 Exchange set with updates	170 days?	Mon 1/3/11	Fri 8/26/11												
16																
17	Phase 3 - Extending the Model	144 days?	Mon 8/29/11	Thu 3/15/12												
18	S-101 Phase 3 Product Specification	144 days?	Mon 8/29/11	Thu 3/15/12												
19	S-101 Phase 3 Feature Catalogue	144 days?	Mon 8/29/11	Thu 3/15/12												
20	S-101 Phase 3 Portrayal Catalogue	144 days?	Mon 8/29/11	Thu 3/15/12												
21	S-101 Phase 3 Exchange Set with updates	144 days?	Mon 8/29/11	Thu 3/15/12												
22																
23	Phase 4 - Scalability and Finalization	186 days?	Fri 3/16/12	Fri 11/30/12												
24	S-101 Version 1.0 Product Specification	186 days?	Fri 3/16/12	Fri 11/30/12												
25	S-101 Version 1.0 Feature Catalogue	186 days?	Fri 3/16/12	Fri 11/30/12												
26	S-101 Version 1.0 Portrayal Catalogue	186 days?	Fri 3/16/12	Fri 11/30/12												
27	S-101 Version 1.0 Test Dataset	186 days?	Fri 3/16/12	Fri 11/30/12												
28																
29	S-101 Data Capture and Classification Guide	540 days?	Mon 11/8/10	Fri 11/30/12												
30	New Feature, Attribute, Enumeration Proposals	905 days?	Mon 11/8/10	Fri 4/25/14												
31	New Portrayal Proposals	905 days?	Mon 11/8/10	Fri 4/25/14												

Project: S-101 Project Plan v2.0 Date: Mon 11/8/10	Task		Milestone		External Tasks	
	Split		Summary		External Milestone	
	Progress		Project Summary		Deadline	

ID	Task Name	Duration	Start	Finish	2011											
					4th Quarter			1st Quarter			2nd Quarter			3rd Quarter		
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
32																
33	S-101 Testbed	405 days?	Mon 11/8/10	Fri 5/25/12												











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Project: S-101 Project Plan v2.0
 Date: Mon 11/8/10

Task		Milestone		External Tasks	
Split		Summary		External Milestone	
Progress		Project Summary		Deadline	

			2012												2013												2014				
4th Quarter			1st Quarter			2nd Quarter			3rd Quarter			4th Quarter			1st Quarter			2nd Quarter			3rd Quarter			4th Quarter			1st Quarter			2nd	
Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	

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