

SPAWAR S100 Testbed Report

Presented by SPAWAR to TSM5

September 2017

TESTBED INFORMATION

Phase 3 – Simple Viewer

- Available on Basecamp
- Validate Part 10 encodings (8211, GML, HDF-5)
- Validate Part 9 portrayals (single dataset)
- Validate Part 4a-D Exchange sets
 - Dataset Delivery and Updates
 - Catalogue Updates
 - Encryption / Digital Signature
- Validate relationships between S-100 Parts

Phase 6 – Shore Based ECDIS

- Validate S-100 Part 9 portrayals (multiple datasets)
- Validate Interoperability

Phase 9 - ECDIS

- Validate S-100
- Validate Derived Product Specifications
- Ongoing validation of Catalogue updates

ON-GOING TESTBED RESULTS



S-122: Presentation

- Portrayal of “Marine Protected Area” from prototype dataset

ON-GOING TESTBED RESULTS (CONT)

S-100WG2 Action Item 41

- S-101 Feature Catalogue Edition 0.9.0 does not validate against schema
- Verified changes to S-101 Lua portrayal catalogue for RADAR_OVERLAY

GML S-122 (From NIPWG4)

- Identified suggested changes to schemas and datasets
- Recommended refinements to define the concepts of associations
- Recommended clarifications for S-100 Part 10b
 - Using path and GML attributes to determine attribute type

GML S-123 (From NIPWG4)

- Inconsistencies noted with S-101:
 - Feature catalogues use opposing definitions for *S100_FC_Role:code* - *componentOf* and *consistsOf*
 - Dataset encoding of *S100_FC_ListedValue* attributes – *label* vs. *code*

HDF-5

- No updates for this reporting period

CONCLUSIONS AND RECOMMENDATIONS

S-101

- Fix Feature Catalogue to match schema
- Add RADAR_OVERLAY context parameter and update XSLT rules

GML

- Refine Part 10b to better support generic processing
- Additional datasets are needed to support thorough testing
- Portrayal catalogues are needed
- Validation tools applicable to S-100 concepts are needed