

## **S-100 Validation Tests**

**S-101 PT 11 update** 

Agenda item 13.2

27<sup>th</sup> September 2023

- Summary of progress
- Areas of focus
  - Parts
  - S-101PT proposed tests
- Delivery to S-100 WG 8 (November 2023)
- Inter-product Validation discussion



## SUMMARY OF PROGRESS

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- Focusing on producing content from S-100 parts
- Initial tests Part 5, Part 6, Part 7(not finished), Part 8, Part 17 (some from Part1, Part 2, Part 4b)

### https://github.com/iho-ohi/S-100-Validation-Checks

#### S-100-Validation-Checks

S-100 Github repository for Validation Check development.

#### S-100 Validation Tests - DRAFT. Last updated 20/09/23.

Dev ID	Check ID	Description	Classif ication	S- 100 Part	S-100 Clause	Introduced	Ма
S100_Dev0001		The basic data type must be one of the supported category types.		1	4.5	5.1.0	
S100_Dev0002		The Derived Type must be one of the types defined in S-100 or in the Product Specification		1	4.6	5.1.0	
S100_Dev0003		The Enumeration Type must be part of the valid identifiers in the Enumerated Type Declaration		1	4.7	5.1.0	
S100_Dev0004		The Codelist Type declaration must be one of the types defined		1	4.8	5.1.0	

- 154 tests
- Need reviewing
- Create Issues using Dev ID number
- Will continue to add to tests
- Also available in spreadsheet format <a href="https://github.com/iho-ohi/S-100-Validation-Checks/tree/main/Documents">https://github.com/iho-ohi/S-100-Validation-Checks/tree/main/Documents</a>



## IHO S-100 PARTS TO FOCUS ON

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## The Parts of S-100

Foreword		İ			
Introducti	Introduction				
0-1	Scope				
0-2	Abbreviations used in this publication				
0-3	Objectives of S-100	2			
0-4	S-100 Parts	3			
0-4.1	Profiles				
0-4.2	Part 1 – Conceptual Schema Language	5			
0-4.3	Part 2 – Management of IHO Geospatial Information Registers	5			
0-4.4	Part 2a – Concept and Data Dictionary Registers	5			
0-4.5	Part 2b – Portrayal Register	5			
0-4.6	Part 3 – General Feature Model	5			
0-4.7	Part 4 – Metadata	6			
0-4.8	Part 5 – Feature Catalogue	6			
0-4.9	Part 6 – Coordinate Reference Systems	6			
0-4.10	Part 7 – Spatial Schema				
0-4.11	Part 8 – Imagery and Gridded Data	7			
0-4.12	Part 9 – Portrayal				
0-4.13	Part 9a – Portrayal (Lua)	7			
0-4.14	Part 10 – Encoding Formats	7			
0-4.15	Part 10a – ISO/IEC 8211 Encoding Schema				
0-4.16	Part 10b – GML Encoding	8			
0-4.17	Part 10c - HDF5 Data Model and File Format	8			
0-4.18	Part 11 – Product Specifications	8			
0-4.19	Part 12 – Maintenance	8			
0-4.20	Part 13 – Scripting	9			
0-4.21	Part 14 – Online Communication Exchange				
0-4.22	Part 15 – Encryption and Data Protection	9			
0-4.23	Part 16 – Interoperability Catalogue Model				
0-4.24	Part 16a - Harmonised Portrayal of S-100 Products				
0-4.25	Part 17 - Discovery Metadata for Information Exchange Catalogues				
0-4.26	Part 18 – Language Packs				

#### Parts done:

- 5
- 6
- Half of 7
- 8
- 17

#### To do:

- 15
- 16
- 18
- 10a,b c (10a done by S-101?)
- 9



## IHO S-101PT GENERIC S-100 TESTS – (PART 1)

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- Need to be reviewed and checked for duplicates against tests on GitHub
- Need linking to clause in S-100
- Otherwise, will be included into S-100 validation checks
- Need to potentially 'elevate' some of the tests to a more generic level



### DELIVERABLE – OCT 2023 FOR S-100WG8

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- Initial list of high level checks
  - Can be expanded upon afterwards
- Document write up with an initial explanation of 'what is S-100 level validation'
  - May not be complete for S-100 WG 8



## **IHO VALIDATION**

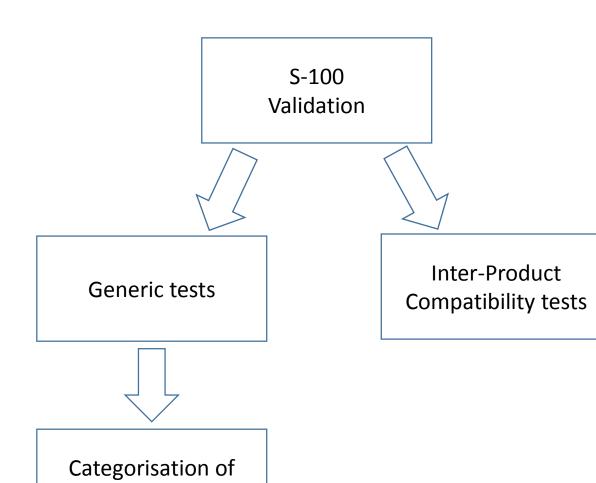
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S-101 Validation

S-100 Validation



tests



## INTER-PRODUCT VALIDATION

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- Jonathan Pritchard to produce initial inter-product tests and place on S-100 Validation GitHub page.
  - Based on initial IIC tests but will take into account TWCWG comments
  - Takes in comments from S-98/S-164 subgroup breakout discussions on Water Level Adjustment implementation
- Will be placed on the S-100 Validation page
- Will discuss topic at S-100WG 8
  - Where are the tests placed?
  - Who is responsible for performing them?



## INTER-PRODUCT VALIDATION

- Discussion on WLA implementation outputs:
  - Strong need for validation between S-102, S-104 and S-101 to ensure WLA can be implemented.
  - Validation required for
    - Consistent Vertical (Sounding Datums)
    - Holes in data
    - Non coincidental coverage of 102 and 104
    - Use of grids other than regular grids
- Proposals to be made to S-102 and S-104 groups for clarifying words on "Datasets intended for use on ECDIS"



Remember – S-100 Validation tests are ECDIS specific at this stage

- Continue producing a set of tests from Parts of S-100
- Review and integration of S-101 PT Proposed S-100 level tests
- Categorisation of tests
- Document write up with an initial explanation of 'what is S-100 level validation'



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# Any Questions?