



# **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



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# SUMMARY OF PROGRESS

International Hydrographic Organization

- 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	Classification	S-100 Part	S-100 Clause	Introduced	Mc
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 <https://github.com/iho-ohi/S-100-Validation-Checks/tree/main/Documents>



## The Parts of S-100

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### Parts done:

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

### To do:

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



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# 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

<https://github.com/iho-ohi/S-100-Validation-Checks/blob/main/Documents/Proposed%20S-100%20Generic%20tests%20from%20S-101%20PT.xlsx>



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

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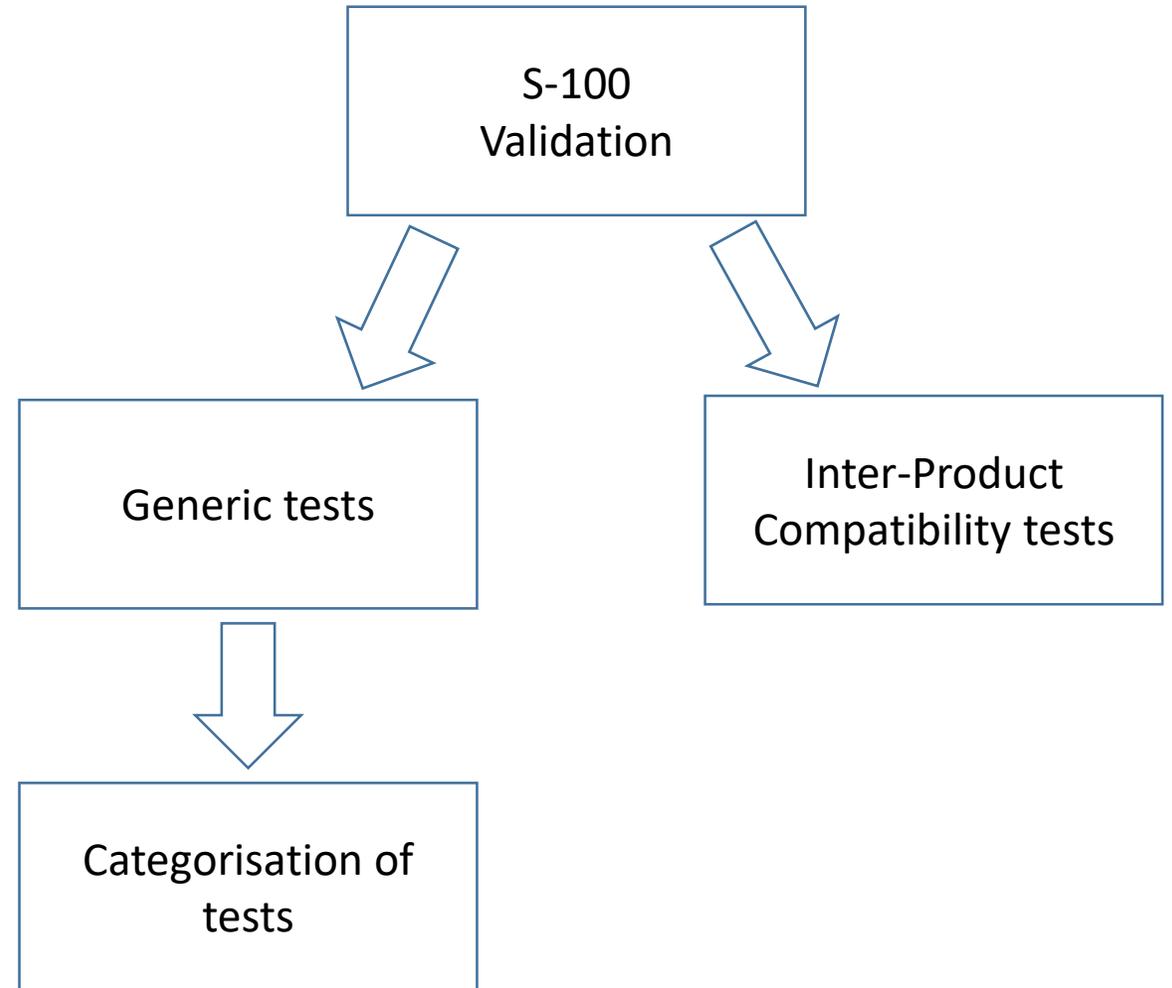
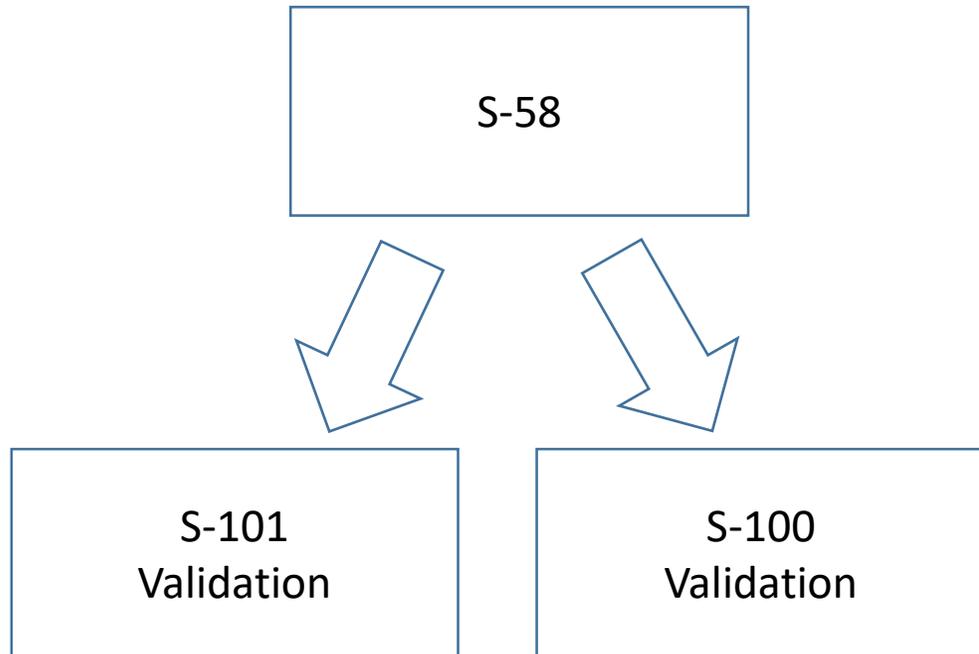
- Initial list of high level checks
  - Can be expanded upon afterwards
- Document write up with an initial explanation of ‘what is S-100 level validation’
  - May not be complete for S-100 WG 8



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# VALIDATION

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# 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?



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# 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**



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## NEXT STEPS

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- 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?