

S-100 Validation Tests sub group

7th VTC Meeting

26th February 2024



IHO MEETING PROTOCOL

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Meeting participants are kindly requested to note the following meeting protocols;

- · Please keep your camera and microphone turned "off" if you are not talking or presenting
- If you want to make an intervention, please turn your camera and microphone on and, raise your hand to indicate that you wish to speak
- Don't forget to turn your microphone "on" before speaking, and "off" when finished
- Please use the "Chat" function to communicate an text information to the meeting
- If you have any problems connecting using Firefox or other browser please try using Chrome.

- S-100 WG8
 - Summary of sub-working group report
 - 8.1 Cross Validation Checks
 - 8.2 Standardised naming convention and structure for Product Specifications
 - Actions affecting S-100 Validation group (incl. S-104 & S-102)
- Initial tests Part1, Part 2, Part 4b, Part 5, Part 6, Part 7(not finished), Part 10c, Part 17
- Issues raised
- Status on tasks
- Next meeting



IHO S-100 WG8 – 13-17TH NOVEMBER, SINGAPORE

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Summary of sub-group report

https://iho.int/uploads/user/Services%20and%20Standards/S-100WG/S-100WG8/EN_S100%20Validation%20sub%20group%20report.pdf

Progress on validation checks produced to date

- Pleased with progress
- 368 checks however, not necessarily a good thing to have so many
 - Need reviewing
- Noted issues with resources to write and review the tests
 - Going to speak to Julia if there is a possibility for IHO funds
- It was acknowledged that the tests will evolve over time
- Stated that each Product Specification will need to check for duplication
- Categorisation will initially use long text name of S-100 Part numbers

S-100 WG8 – 13-17TH NOVEMBER, SINGAPORE CONT.

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Deadline

For development of checks – HSSC17 (2025)

How publish?

- Following discussion agreed to use S-158 will be requested at HSSC
 - Provides flexibility for updating
 - Registry not feasible would require a new registry to be created
 - Potentially separate appendix/annex for validation checks for each Product Specification – action on subgroup & Jeff to investigate maintenance for Validation Checks and to report recommendations back to S-100WG9 (4th Nov, 2024, Genoa)



PAPERS TO S-100WG 8

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8.1 S-100 Validation Tests and Cross-Product Validation

Joint paper submitted between S-100 Val & S-98/S-164 sub groups - revised following sub group meeting in October https://portal.iho.int/share/files/714

Key points:

What is S-100 Validation?

What is meant by validation?

Action Required of S-100 WG:

Endorse the different types of validation required for S-100

[Decision 8/31] S-100WG8 approved the proposal on the different types of validation requirements at the S-100 Product Specification level and the overall S-100 level.



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Cross-Product Validation (or another term)

Action Required of S-100 WG:

- Invite the S-100 Validation subgroup to liaise with the S-98/S-164 subgroup and DQWG to clarify the definitions and scope of the different validation tests.
- Endorse the drafting of an appendix to S-98 to contain Cross-Product Validation Tests
- Task the S-98/S-164 & S-100 Validation Sub Groups to complete initial content of these tests by working with the relevant Product Specification project teams.

[Action 8/44] S-100 Validation SG to coordinate with the S-98/S-164 SG and DQWG to clarify the definitions and scope of the different validation tests. S-100 Validation SG Lead to submit their recommendations to the next S-100WG for discussion if appropriate

[Decision 8/29] S-100WG8 agreed the change of the scope of S-98 to include a distinct Appendix within S-98, defining checks for compatibility between datasets from different Product Specifications for defined purposes (in particular for S-98 water level adjustment).

- Produced jointly between the S-98/S164 & the S-100 Validation sub groups in liaison with the respective Product Specification groups.
- The scope of these tests will only cover datasets that are to be used in an interoperable manner.



PAPERS TO S-100WG 8 CONT.

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8.2 Standardised naming convention and structure for S-100 PS

Submitted by me on behalf of S-100 Validation group revised following October meeting https://portal.iho.int/share/files/713
Key points:

Different PS and S-100 Validation tests but there are numerous styles of naming conventions and structure of tests (S-100, NIPWG, TWCWG, WWNWS, IALA)

Action Required of S-100 WG:

- Endorse the standardisation of a naming convention with the use of the Product Specification number at the front of the check and the use of only numerical Check IDs
 - [Decision 8/32] S-100WG8 endorsed
- Invite the S-100 Validation sub group to liaise with the Product Specification sub groups & Project Teams to agree a standardised structure to the validation tests
 - [Action 8/45] S-100 Validation SG Lead to submit the draft guideline/template to S-100WG for approval via a S-100WG Letter.
- Agree how widespread the standardisation is required, whether limited to:Working Groups & Project Teams, IHO Domain or all S-100 Product Specifications
 - Agreed to just the first phase products (PS due for 2026 release)
- Endorse the updating of S-97 to include guidance on standardised naming convention and check structure, if endorsed above
 - [Decision 8/33] S-100WG8 endorsed the updating of S-97 to include a guidance/template on a standardised naming convention for Checks and a core Check structure, the structure being extensible in Product Specifications as the WG/PT responsible for the PS considers necessary.



S-100WG8 TOPICS AFFECTING S-100 VALIDATION

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Versioning

- How handle different versions of FC, PC, DCEG etc.?
- How record validation checks against different versions?

Part10b Implementation guidance

 [Action 8/40] S-100 Validation SG in consultation of NIPWG Chair to review the implementation guidance document and include changes to the Validation Checks guidance as appropriate.

Relevant for cross product validation

- S-104 regular grid only
- S-102 discussion regarding 'holes'

S-98

Agreed that S-100 Val & S-98/S-164 will review S-98 Annex C and see if checks are required

General request

Raise an issue if find and issue that will need covering by Validation tests

STATUS ON PARTS REVIEW

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- Initial tests Part1, Part 2, Part 4b, Part 5, Part 6, Part 7(not finished), Part 8, Part 10c,
 Part 17
 - Parts 15 (Data Protection Scheme) & 16 (Interoperability Catalogue Model) allocated
- S-101 (Part 1) to be incorporated once formatted.
- Prioritised list remaining
 - 18 (Language Packs)
 - 10b (GML Encoding)
 - 9 (Portrayal)
- Are there any other checks required for 2024 PS deadlines?

- Open Issues 36
- Main focus 10c Checks
 - 52 uploaded
 - 16 issues need reviewing as a priority

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



IHO NEXT STEPS

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- Continue producing a set of tests from Parts of S-100 & incorporate other tests (S-101, IIC etc.)
 - Tabulate and place on GitHub
 - Then group to comment and raise issues using Check ID in title
 - 204 tests written from Part1, Part 2, Part 4b, Part 5, Part 6, Part 7 (not finished), Part 10c, Part 17
 - 164 from S-101 Proposed tests (368 in total) Need reformatting and inserting into spreadsheet
 - Speak to Julia about assistance
- Focus on 10c Issues Raised review and comment, need to close off soon
- Finalise and circulate naming convention and validation test structure
- Coordinate Cross-Product Validation with S-98/S-164 lead, DQWG and S-1xx PS owners
 - Scope outlined for TSM
- Categorisation of tests use Part long name
- Document write up with an initial explanation of 'what is S-100 level validation' requesting S-158 from TSM

NEXT MEETINGS

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S-100 TSM meeting 12-15th March

Need to get the checks affecting S-101 ready before June

Suggest next meeting is Tuesday 9th April (S-130PT meeting on Monday)

Do we need a smaller meeting earlier to discuss 10c checks?



Any Questions?



PAPERS TO S-100WG 8

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8.1 S-100 Validation Tests and Cross-Product Validation

Joint paper submitted by me and Jonathan (S-98/S-164 lead) revised following subgroup meeting in October https://portal.iho.int/share/files/714

Key points:

What is S-100 Validation?

What is meant by validation?

- 1. The dataset itself is valid according to the Product Specification Validation Tests
- 2. The dataset is valid against datasets of the same product type (e.g. S-101 vs S-101)
- 3. S-100 level Validation Tests (apply to all datasets e.g. Feature Catalogue against Portrayal Catalogue, if a Portrayal Catalogue is present).
- 4. Tests of individual S-100 components themselves (e.g. whether feature/portrayal catalogues are consistent with each other and conform to the S-100 schemas)

Additionally, there is another type of validation that has not been catered for here, which is whether a dataset is "valid" (or compatible with) another dataset of a different type e.g. S-101 vs S-102, a form of cross-product validation.

Action Required of S-100 WG:

Endorse the different types of validation required for S-100



Open Issues

- Issue 14 (Invalid Geometries) Invalid geometries Issue #14 iho-ohi/S-100-Validation-Checks GitHub
- Issue 9 (Part 17 checks) amended wording for items 1, 2 & 4. Item 3 TBD at S-100WG8. Item 5, need S-100 Part Reference link.
- Issue 10 (Checks for organization and individual information in CATALOG.XML) not completed yet
- Issue 11 (Proposed checks for locale consistency between resource and discovery metadata block) paper submitted to S-100 WG8. Review after meeting. http://iho-portal.bluemap.kr/share/files/387
- Issue 7 (use of "unknown" for feature attribute binding) closed
- Issue 13 (Input on proposed checks relating to HDF5-format products) following S-100 WG8 will review,
 likely moved to Cross-Product Validation
- Issue 6 (naming convention) temporarily on hold with decision on Dev ID. Will review after S-100 WG8