

S-100 Validation Tests sub group

3rd VTC Meeting

4th September 2023



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.



- Issues raised
 - TWCWG Feedback on IIC Validation Tests
- Initial tests Part1, Part 2, Part 4b, Part 5, Part 6, Part 7(not finished), Part 17

(S100ValidationTests_x)

• Status on tasks

• Next meetings



• Open Issues Hydrographic

International

Organization

- Issue 8 (S-100_050, S-100_061, S100_64)
- Issue 9 (Part 17 checks) ٠
- Issue 10 (Checks for organization and individual information in CATALOG.XML) ٠
- Issue 11 (Proposed checks for locale consistency between resource and discovery metadata block) •
- Issue 12 (Require valueOfSounding or defaultClearanceDepth) •
- Issue 7 (use of "unknown" for feature attribute binding) ٠
- Issue 13 (Input on proposed checks relating to HDF5-format products) •
- Issue 6 (naming convention) •

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



International Hydrographic Organization

S100_050, S100_061, S100_064 #8

• Open rmalyankar opened this issue on Jul 11 · 0 comments



The following are rules for production, interpretation, or dataset management, rather than validation checks - they cannot be applied to check anything, instead they specify "what to do" rather "what the subject(*) must or must not have".

. . .

S100_050 When a datasets is cancelled it must be removed from the system

S100_061 The start and end instants of [t]he interval calculated by combining userDefinedMaintenanceFrequency with the

issue date/time must be interpreted according to Part 3 Clause 3-8

S100_064 If both userDefinedMaintenanceFrequency and the maintenanceDate are encoded in the same discovery metadata block, the maintenanceDate supersede the userDefinedMaintenanceFrequency

(*) dataset for 050, metadata discovery block for 061 and 064

Check 050 specifies the state of the end-user system after ingesting/integrating a cancellation; 061 and 064 specify how the enduser application must interpret certain elements in discovery metadata.

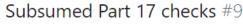
They might perhaps be rewritten as requiring verification that the producer's intent is consistent with the mandated action or interpretations, but was that the intent in including them or does it stretch the meaning of "validation check" further than we want?

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	Part	Check ID	Description	Classfication	S-100 Part S-100 Clause	Introduced	Modified	Internal use - uploaded date
1	17	S100_050	When a datasets is cancelled it must be removed from the system		17 4.4.1	5.1.0		07-07-2023
			The start and end instants of the interval calculated by combining userDefinedMaintenanceFrequency with the issue					
1	17	S100_061	date/time must be interpreted according to Part 3 Clause 3-8		17 4.9.1	5.1.0		07-07-2023
			If both userDefinedMaintenanceFrequency and the maintenanceDate are encoded in the same discovery metadata					
÷.	17	S100_064	block, the maintenanceDate supersede the userDefinedMaintenanceFrequency		17 4.9.1	5.1.0		07-07-2023



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• Open rmalyankar opened this issue on Jul 15 - 2 comments

rmalyankar commented on Jul 15

Some Part 17 checks are implicitly included in S100_20 and need not be listed as separate checks, because ordinary XML schemavalidation using the S-100 generic schemas would detect breaches of the respective check conditions as originally stated.

S100_020 XML catalogues conform to the S-100 Metadata Profile Schemes

Checks subsumed in S100_020 are:

S100_021 S-100 Exchange set contains a conforming S-100_ExchangeCatalogue

S100_033 "All resources within an S-100 Exchange Set must be digitally signed and their signatures included in the Exchange Set Catalogue.

Or The S-100_DatasetDiscoveryMetadata attribute digitalSignatureValue is mandatory"

S100_052 The S100_Datacoverage attribute boundingPolygon instance is mandatory and there can only one instance S100 053 Only one defaultLocale is permitted within S100 Exchange Catalogue

S100_055 If userDefinedMaintenanceFrequency is populated the lexical represtantion for duration is the ISO 8601 extended format PnYnMnDTnHnMnS

Recommendations:

1. Replace S100_033 with "The digital signature is valid"

2. Replace \$100_052 with "The bounding polygon conforms to the Level 3a rules in Part 7".

3. Add a rule about whether data coverage polygons can have holes (TBD whether the answer should be yes or no).

4. Replace S100_053 with "The language in *defaultLocale* and *otherLocale* must be one of the languages listed in the S-100 codelists catalogue. (This file is part of the S-100 generic schemas distribution.)"

 Add a check for repeated locales: Language/country combinations in a defaultLocale or otherLocale entry must not be repeated in an otherLocale attribute within the S100_ExchangeCatalogue element's attributes, or within the same discovery metadata block for any resource.

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MikusRL commented on Jul 17

..., or within the same discovery metadata block for any resource.

@rmalyankar do you mean by this anywhere in the metadata within a single exchange set across all datasets? Thanks.

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rmalyankar commented on Jul 17

Author ···

...

...

..., or within the same discovery metadata block for any resource.

@rmalyankar do you mean by this anywhere in the metadata within a single exchange set across all datasets? Thanks.

Each instance of S100_DatasetDiscoveryMetadata or S100_CatalogueDiscoveryMetadata, noting that otherLocale is present only in those classes and S100_ExchangeCatalogue.



New checks for organization and individual information in CATALOG.XML #10

⊙ Open rmalyankar opened this issue on Jul 25 · 0 comments

rmalyankar commented on Jul 25 . . . Assignees No one—assign yourself If discovery metadata attributes of type CI_Organisation and CI_Individual are populated their content must conform to Tables 17-2 and 17-3, pages 31-32. Labels Table and page numbers are as in Ed. 5.0.0. None yet This may result in more than one check, going by the tables. Projects Applies to S100_DatasetDiscoveryMetadata.{producingAgency, metadataPointOfContact} None yet \odot Milestone No milectone

Table 17-2 – Individuals (restriction of CI_Individual from ISO 19115-1)

Name	Path	Datasets	Other resources
Name of the individual	CI_Individual.name	C (documented if 'positionName' and 'partyIdentifier' not documented)	C (same as for dataset)
Position of the individual in an organization	CI_Individual.positionName	C (documented if 'name' and 'partyldentifier' not documented)	C (same as for dataset)
Contact information for the individual	CI_Individual > contactInfo > CI_Contact	M (see note 2)	M (see note 2)
Identifier for the party	Cl_Individual.partyldentifier	C (documented if 'name' and 'positionName' not documented	C (same as for dataset)

Table 17-3 – Organisations (restriction of CI_Organisation from ISO 19115-1)

Name	Path	Datasets	Other resources
Name of the organisation	CI_Organisation.name	C (documented if 'positionName' not documented – see Note 1)	C (same as for dataset)
Position of an individual in the organisation	CI_Organisation.positionName	C (documented if 'name' not documented – see Note 1)	C (same as for dataset)
Contact information for the rganisation CI_Organisation.contactInfo > CI_Contact		M (see note 2)	M (see note 2)
Identifier for the party	CI_Organisation.partyIdentifier	C (documented if 'name' and 'positionName' not documented	C (same as for dataset)

NOTE 1 S-100 restricts ISO 19115-1 in that documenting the 'logo' attribute of CI_Organisation is not sufficient to allow omission of both 'name' and 'positionName'.

NOTE 2 At least one of CI_Contact attributes phone / address / onlineResource / contactInstructions must be documented.



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Proposed chec	ks for loca	le consiste	ncy between	resource	and d	iscovery
metadata block	< #11					



• Open rmalyankar opened this issue on Jul 25 - 2 comments

malyankar commented on Jul 25		Assignees			
Checks for S100_DatasetDiscoveryMetadata and S100_CatalogueDiscoveryMetadata:					
 If a dataset or catalog uses a language or languages other than (or in addition to) English, every language in the dataset/catalog must be indicated in defaultLocale/otherLocale attributes in the corresponding discovery metadata 	block	Labels			
 If English is one of the languages used in a dataset or catalog, it must be encoded in defaultLocale. 					
Check for S100_SupportFileDiscoveryMetadata:		Projects			
 If a support file is in a language other than English, the language must be encoded in defaultLocale in the correspon S100 SupportFileDiscoveryMetadata block. 	nding	None yet			
Check for support file content:		Milestone No milestone			
1. A support file that contains informative text intended for display to end-users must use only one language for all suc	ch text.				
9		Development Create a branch f			
		Notifications			
DavidGrant-NIWC commented on Jul 25					
1. Why? I don't understand why this is useful for dataset/catalog discovery.		You're receiving r this repository.			
The dataset encodes this information internally.					
 The catalog uses language packs to support this functionality - the catalog itself is always required to be in English. The default value for <i>defaultLocale</i> is English, so it should only be required to encode a <i>defaultLocale</i> if it is not English. 					
				9	
		🕅 Pin issue 🛈			
malyankar commented on Jul 25	ithor …	→ Transfer issue			
1. Why? I don't understand why this is useful for dataset/catalog discovery.					
 Where in the dataset is this information encoded? What if the dataset is encrypted? Requires a paid license? 					
 Where is the requirement that the catalog (which catalog?) is always required to be in English? 					
 If locale information is not needed I suggest submitting a proposal to remove those attributes from the respective n classes. 	netadata				

... it should only be required to encode a defaultLocale if it is not English.

The check ensures that English is not encoded in an otherLocale instead of defaultLocale when there are multiple languages.



ISSUE 12

International Hydrographic Organization

S-101: Require valueOfSounding Or defaultClearanceDepth #12

Open DavidGrant-NIWC opened this issue last month - 0 comments

DavidGrant-NIWC commented last month		
Require that one of valueOfSounding or defaultClearanceDepth must be encoded (can't both be unknown) for:		
• Wreck		
• Obstruction		
• UnderwaterAwashRock		
iho-ohi/S-101-Documentation-and-FC#10 (comment)		

https://github.com/iho-ohi/S-101-Documentation-and-FC/issues/10#issuecomment-1667844996



Ability to indicate whether an "unknown" value is allowed for a feature attribute binding. #7



Open FrankHippmann opened this issue on Jul 7 - 5 comments

ISSUE 7

FrankHippmann commented on Jul 7	Assignees
As a background, the table that is part of S-58 check 2000 indicates whether a feature attribute binding allows for an "unknown"	No one—assign yours
attribute value. From the validation perspective, one aim of the feature catalogue was to remove the need for check 2000. Perhaps the ability to encode "unknown" was overlooked when designing the XML schema for the FC, and I just assumed it was already	Labels
there.	None yet
The benefit of having an "allowsUnknown" attribute in the FC (one of David Grant's suggestions) is that the validation checks for	Designets
unknown would be implicitly defined, meaning that if the FC is updated, there would be no need to also update the validation checks explicitly. As others have pointed out, in the absence of adding "allowsUnknown" to the FC, there would be the need for	Projects None yet
product specification specific checks for unknown. Both will work, but my preference is for updating the FC.	
For the sake of completeness, I assume that this would not only apply to feature/attribute combinations, but also to other object	Milestone
types for which there are attribute bindings.	No milestone
	Development
	Create a branch for th

Proposal is being submitted to S-100 WG8 for discussion. Close issue for now?

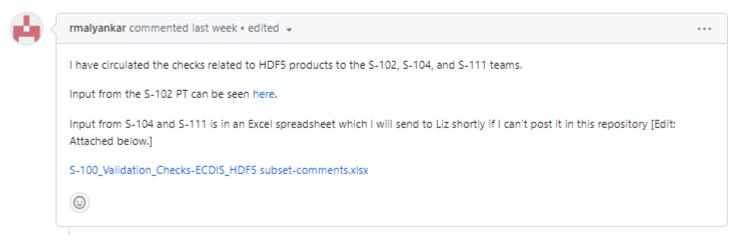
Overlap with Issue 4? https://github.com/iho-ohi/S-100-Validation-Checks/issues/4



Input on proposed checks relating to HDF5-format products #13



• Open rmalyankar opened this issue last week • 0 comments



S-100_Validation_Checks-ECDIS_HDF5 subset-comments.xlsx



Consistent identifiers for S-100/S-10x validation checks #6

• Open FrankHippmann opened this issue on Jun 27 - 3 comments

'₽	LizHahessy commented 37 minutes ago	Collaborator ···
	Agreed at VTC 2 to follow the format: Check ID, Description, Classification, S-100 Part, S-100 Clause, Introduced version, Modified version Have separated out the Part number from the Check ID in case information moves Parts in the future. Have als	
	Introduced version to know which edition of the standard was being followed at the time it was introduced. Ac introduced a Modified version, so if the check is edited due to changes in standard then the associated versior	
	For now the Check IDs is for Issue tracking purposes only, the Check IDs will be renumbered in numerical orde is ready for submission.	r once the first draft
4	LizHahessy commented 36 minutes ago	Collaborator
	Need to decide on whether we agree on the use of A, B, C etc., for when the checks may get separated later or previously happened with S-58.	n. This has

Propose close issue for now



IHO NEXT STEPS

- 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
 - 65 tests written from Part1, Part 2, Part 4b, Part 6, Part 17
 - Co-ordination meeting with S-101 Validation 5th September
- Categorisation of tests proposal for Lombok and agree on GitHub?
- Interfaces with DQWG
- Naming conventions across different validation tests
- Document write up with an initial explanation of 'what is S-100 level validation'



DELIVERABLE – OCT 2023

- 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'



IHO WORK PLAN

ID	Task	Further Information	Who	Start Date	End date	Status
	1. Collate information an prepare Valdation Tests	runnermormation	WIIO	Start Date	End date	platus
1 1	Establish GitHub page		Yong/ Liz	[1	COMPLETE
1.1						
1 2	Contact Test Bed owners for input	SHOM/UKHO, KHOA & NO contacted. EU InterReg Project due to begin in 2023 - SE are leads (DK are members)	Liz	01-04-2023	06-07-2023	COMPLETE
1.2		Show okno, know & No contacted. To interkeg Project due to begin in 2023 - 32 are reads (ok are members)	L12	01-04-2023	00-07-2023	
1 2	Contact DQWG for involvement	Chair contacted and agrees there is cross over between groups. Hopes to attend September VTC	Liz	01-04-2023	06 07 2023	COMPLETE
1.5		chan contacted and agrees there is cross over between groups. Topes to attend september vie	672	01 04 2023	00 07 2023	
1.4	Contact relevant PS owners	Contacted S-102, S-104, S-111, S-124, NIPWG generally, S-401 for information.	Liz	01-04-2023	06-07-2023	COMPLETE
1.4	Contact relevance 5 owners		612	01 04 2023	00 07 2023	
15	Contact Validation Software Manufacturers	Closing action as the software manufacturers are members of this group. If they have information to share please upload to GitHub or contact Liz & Yong	Liz	01-04-2023	06-07-2023	CLOSED
1.6	Produce Work Plan	Work plan produced and will maintain	Liz	01-04-2023	06-07-2023	
1 7	Raise awareness of this group	Members to raise awareness of this group when attending technical meetings		01-04-2023		COMPLETE
1.7		wenters to raise awareness of this group when attending certifical meetings		01042023	04 05 2023	CONTRETE
1.8	Review S-101 Proposed S-100 level tests	Uploaded to GitHub page. Need review for determing if should be carried forward to S-100 Validation tests and if need rewording. DK have begun an initial review		01-07-2023		IN PROGRESS
1.0		ewording, ok hare began an initial review		01072020		in the one of the one
		Uploaded to GitHub page. Need review for determing if should be carried forward to S-100 Validation tests and if need				
1.0	Review S-129 Validation tests	rewording. Discussed at VTC2 that is is not in scope for this group.		N/A	N/A	ON HOLD
1.9	Review S-129 Validation tests		ALL	N/A	N/A	UN HULD
1.10	Review S-124 Validation tests	Contacted chair for access to tests. Discussed at VTC2 that is is not in scope for this group.		N/A	N/A	ON HOLD
1.10	Review S-124 Validation tests	Discussed at VIC2 that is is not in scope for this group.	ALL	N/A	N/A	UN HOLD
	Review S-104 Validation tests	Contacted chair for access to tests. Checks are on Registry need to contact for permission to post on GitHub page. Discussed at VTC2 that is is not in scope for this group.	Liz/All	N/A		ON HOLD
1.11	Review S-104 Validation tests		LIZ/AII	N/A	N/A	UN HOLD
1.12	Review S-102 Validation tests	Contacted chair for access to tests. Discussed at VTC2 that is is not in scope for this group.		N/A	N/A	ON HOLD
1.12	Review 3-102 Validation tests		ALL	N/A	N/A	ON HOLD
		Intial proposal submitted - Issue 6 on GitHub. Proposal was amended during VTC2 to S100_xxx. It was questioned what	:			
1.13	Determine naming convention for tests	the value of the Part number was and this could cause issues if S-100 changes Parts around as has done previously. Group to review and comment on for agreement by next VTC in September.		01-07-2023	01-09-2023	IN PROGRESS
1.14	Agree categorisation of Validation tests	or out to review and commencement of a president of the inseptember.	ALL	01-07-2023	10-10-2023	
1.15	Agree structure of Validation tests	Discussed briefly at VTC 2 and suggestions implemented regarding	ALL	01-07-2023	10-10-2023	
			the telefalls are tole water.			
1.16	Review relevant DQWG documentation	Identify and review relevant DQWG documentation	Liz initially to identify Group to review	01-04-2023	01-09-2023	PLANNED
1.17	Review S-100 Parts for S-100 level Validation tests	Initial review has begun - Parts 1, 2, 6, 4b, 17 intially reviewed and posted for comment 07/07/23.	ALL	01-04-2023	01-09-2023	IN PROGRESS
		This was proposed at S-101 PT meeting. Is this something we want to progress. Perhaps activity for after initial delivery at S-100 WG9. Potential collaboration with DQWG?				
1.18	Develop cross check of PS validation tests to S-100 to identify gaps	Discussed at VTC 2 that is this not a task for this group.	ALL	N/A	N/A	ON HOLD
		Diagram initially produced for S-100 WG8. Group questionned relevance of diagram at VTC1, so work is on hold. Will				
1.19	Update Validation Diagram	reopen if required.	N/A	N/A	N/A	ON HOLD
		Table initially produced for S-100 WG8. Group questionned relevance of diagram at VTC1, so work is on hold. Will				
1.20	Update table outlining different types of Validation and who is responsible for them	reopen if required. May be needed for Introduction section to S-100 Validation Tests.	N/A	N/A	N/A	ON HOLD
				1	1	
1.21	Produce a data flow diagram showing where valdiation takes place	Deemed not priority at this point due to resources available. Will reopen if required.	N/A	N/A	N/A	ON HOLD
				1	1	
1.22	Produce a timeline	Deemed not priority at this point due to resources available. Will reopen if required.	N/A	N/A	N/A	ON HOLD
	2. Prepare draft delivery to S-100 WG9					
2.1	Produce wording for introduction to document on S-100 Validation				10-10-2023	PLANNED
2.2	Draft Initial S-100 Validation tests focused on first phase S-100 deliveries				10-10-2023	
-			•			



- S-101PT WG meeting Lombok, Indonesia 27-29th September
 - Planned slot Friday 29th for 1 hour, VTC should be possible.
- Monday October 23rd? To agree on submission to S-100 WG
- November S-100 WG 8 meeting Singapore 13-17th November



Any Questions?