LIST OF DECISIONS & ACTIONS ARISING FROM S-100WG6 2022

- Final Draft -

AGENDA ITEM	SUBJECT	ACTIONS (in bold, action by)	Remarks			
Openi	Opening and Administrative Arrangements					
1	Members	[Action 6/01] S-100WG are invited to update the list of members of the WGs and contact details.	Permanent			
2	Agenda	[Decision 6/01] S-100WG6 agreed that discussion items to the meeting proposed by the Chair should focus on the following items that the WG are to submit to the next HSSC for approval and/or consideration taking into consideration the IHO Work Programme and prioritization of the WG. • S-100 Edition 5.0.0 finalization • S-98 Edition 1.0.0 finalization • S-102 Edition 2.1.0 finalization • Dual Fuel Governance Document Remaining items will be considered if the WG has an opportunity during the meeting or by further meeting(s) via a teleconference platform or by Working Group letter depending on the subject and consideration given to the Work Programme.				
		SC Working Group Reports				
3.1 3.2	S-100WG5/ VTC 2021 Minutes and Actions	[Decision 6/02] S-100WG approved the draft Minutes of S-100WG5 and the WG VTC2 2021 respectively which were posted on the S-100WG meeting page each. [Action 6/02] S-100WG members invited to provide update on the actions from the previous meeting at their earliest opportunity.	The final version uploaded on each page.			

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ITEM		(in bold, action by)	
3.3 3.4	HSSC Report / Actions	S-100WG reviewed the HSSC 13 Decisions and Actions reported by the IHO Sec. and assign the S-100WG Actions to be monitored by the WG.	
		[Action 6/03] S-100WG members invited to participate in the Sub-Group to review and propose amendments to M-3 and inform to Chair and Sec of their contribution by end of Feb. 2022.	Ref. HSSC13/05
		[Action 6/04] Chair to prepare a proposal by which the S-100 Strategy supersedes to the S-100 Master Plan. In addition to the relevant updates to be made to the main text of the S-100 Implementation Strategy.	Ref. HSSC13/08
		[Action 6/05] S-100WG Project Teams to consider aligning product specifications (S-101, S-102 and S-129) to S-100 Edition 5.0.0 by	Ref. HSSC13/16 and 17
		2023 and submit their plan to the S-100WG Chair by end of Feb. 2022.	Deadline: February 2022
		[Action 6/06] S-129 Project Team to submit a proposal on Ed 2.0.0 for endorsement at the next S-100 WG meeting.	Ref. HSSC13/21
		[Action 6/07] Chair to contact S-121 Project Team leader and request submission of their plan for the development of Ed. 1.1.0 as recommended by HSSC13.	Ref. HSSC13/22
		[Action 6/087] IHO Sec/GI Registry Manager to consider the possibility of arranging a 2 nd Educational Workshop at the earliest opportunity.	Ref. HSSC13/24
		opportunity.	Ref. HSSC13/27
		[Action 6/09] Chair/France to develop a paper for the SENC delivery issues raised by France and circulates to the WG for consideration at the next S-100WG meeting.	
3.8	DQWG report	Noted	
	•	Left blank intentionally	
	osals S-100 Ed 5.0		
4.1 4.1A	Part 16 Interoperability	[Decision 6/03] S-100WG approved the proposed S-100 new Part 16 and Part 16A - Harmonised Portrayal of S-100 Products into S-100 Ed 5.0.0.	
		[Action 6/10] Part16 CG (lead by S-100WG Chair) to conduct a final review of the new "clean" version to ensure that all the inconsistencies have been resolved noting that IIC will provide and update diagram.	Deadline: middle of Feb. 2022
4.2A	Discovery Metadata Catalogue	[Decision 6/04] S-100WG approved the proposed New Part of S-100 for Discovery Metadata for Information Exchange Catalogues and agreed to assign as Part 17.	
		[Action 6/11] Metadata CG to conduct a final review of the new "clean" version of S-100 Part 17 to ensure that all the inconsistencies have been resolved.	Deadline: middle of Feb. 2022

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ITEM	~ ~ ~ ~ ~ ~	(in bold, action by)	
4.2B	Vertical Datums	[Decision 6/05] S-100WG agreed to move forward with a small	
		group to discuss comments made by RM, HB and IIC about	
		enumerations vs codelists etc.	
		[Action 6/12] Small Group (BSH, RM, HB, TD and JP) to discuss	Deadline: middle
		via VTC the issue of enumerations vs codelists and submit the	of Feb. 2022
		suggestion to S-100WG Chair. Chair incorporates it into the redline	
		version of S-100 Ed. 5.0.0 for final review and approval by the WG.	
4.2C	Metadata	[Decision 6/06] S-100WG approved the proposal of Metadata	
	Temporal	Temporal Attributes.	
	Attributes		
		[Action 6/13] Metadata CG to conduct a final review of the new	Deadline: middle
		"clean" version of S-100 Part 17 to ensure that all the inconsistencies	of Feb. 2022
		have been resolved.	
4.2D	Supporting	[Decision 6/07] S-100WG approved the proposal to be incorporated	
	Resources	to the New Part 16.	
		IIID	
		HB: concerned with using digital signature when implemented. Chair	
		suggested to have further discussion offline and report back to the meeting before the end of S-100 proposal session.	
		meeting before the end of 5-100 proposal session.	
		JP, RM, AC(UKHO) and HB have an offline talk and report the	Deadline: before
		outcome to the meeting.	the day-2
		<i>θ</i>	
		[Action 6/14] CG to review the proposal for Part 4a taking into	Deadline: Feb.
		consideration the impact on other S-100 Parts; and submit the final	2022
		change proposal to the S-100 WG for approval.	
4.2E	Part 4a	[Decision 6/08] S-100WG approved the change proposal to S-100	
		Part 17.	
		[A-4] or CHELM-4- J-4- CC 4 J-4- C-1 miles of the man	
		[Action 6/15] Metadata CG to conduct a final review of the new "clean" version of Part 4a to ensure that all the inconsistencies have	
		been resolved.	
4.2F	Part 4a ISO	[Decision 6/09] S-100WG agreed with the proposal in general and	
7.21	19115	deferred to the CG a change proposal to S-100 Part 4a (New Part 17)	
	17110	regarding ISO 19115 conformal Metadata Files in an exchange set as	
		a way forward.	
		[Action 6/16] CG to review the proposal for Part 4a taking into	Deadline: middle
		consideration the impact on other S-100 Parts and submit the final	of Feb. 2022
		change proposal to S-100WG for approval.	
		Noted Vario (NCA) Tem (ECDI) Alice (UVIO) is in 14. CC	
		Noted: Kevin (NGA), Tom (ESRI), Alison (UKHO) joined the CG.	
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AGENDA	SUBJECT	ACTIONS	Remarks
ITEM		(in bold, action by)	
4.2G	Part 4a (New Part 17) proposal	[Decision 6/10] S-100WG agreed to update S-100 Part 17 with comments from RM, SevenCs and IIC as presented at the meeting in general.	
		[Decision 6/11] S-100 WG agreed to defer to the CG for adjudicating comments via VTC by the middle of Feb 2022 and circulate to the WG for the final comments.	Deadline: February 2022
		[Decision 6/12] S-100WG approved S-100 Part 17 for inclusion in S-100 Ed. 5.0.0 and submit to HSSC14 for endorsement.	
4.3A 4.3C	GML Schemas in Exchange Sets	It was established that NIPWG and other invested groups such as the S-124PT are aware of the proposed changes.	
	Part 10b GML	DG(NIWC): Raised possible issue of inconsistency between the GML Schemas and the associated FC. It should be possible to generate one from the other in order to resolve this issue. But it's noted this is possible but is not a simple process.	
	revision	[Decision 6/13] S-100WG approved the proposal of the addition of	
		"GMLSchema" to the S-100 Exchange Set catalogue enumeration, S100_CatalogueScope and addition of amplifying comments in the text concerning the transport of such schemas for all GML specified products.	
		[Action 6/17] JP, HS (CARIS) and RM provide the redline version in consultation with the NIPWG chair.	Deadline: middle of Feb. 2022
		[Decision 6/14] S-100WG agreed to the revision to S-100 Part 10b as presented at the meeting in principle and agreed to review the change proposal by S-100WG Letter and then incorporate into Ed. 5.0.0.	
		[Action 6/18] IIC to submit the redline version of the S-100 Part 10b as updated for this proposal.	Deadline: middle of Feb. 2022
4.3B	GML to Spatial Reference Systems	[Decision 6/15] S-100WG agreed for the proposal to be considered in the revision of the Part 10b so as to add an implementation guidance to S-100 Part 10b.	
		[Action 6/19] SHC(Taiwan, lead), RM and JP to draft the implementation guidance for Part 10b and S-100WG Chair to circulate the draft guidance to the S-100WG for approval.	Deadline: Feb. 2022
		[Action 6/20] CG produce the final redline for part 10b by end of Feb. via NIPWG for their comments. S-100WG invited to participate in the development of the redline version.	Deadline: Feb. 2022

AGENDA ITEM	SUBJECT	ACTIONS (in bold, action by)	Remarks
4.3D INF	GML Format Way Forward	JP: The work proposed in this paper is not achievable in the time-frame for S-100 Ed 5.0.0 publication. Suggested that this be taken up within the general GML community in slower time in regard to the suggestions that have not already been included in the IIC paper.	
		EM: Is not seeing any impact of this paper on activities that are happening right now. Raised concern over possible inconsistencies in regard to the GFM in addition to the time constraint.	
		JP : suggested that any future discrepancies/issues could be resolved in S-97 and S-98.	
		[Action 6/21] RM to submit Paper 4.3D to NIPWG for their comments and resubmit to S-100WG for consideration at the next meeting.	Deadline: S-100WG7
4.4	Part 10C Attribute Chunking	[Decision 6/16] S-100WG approved the redline version for HDF and attribute chunking as presented at the meeting.	
4.5 A 4.5 B	Feature oriented discrete coverage	[Decision 6/17] S-100WG approved the redline version which was the extension of the scope of S-100 Ed 5.0.0 Part 10c to include a feature oriented discrete coverage in HDF5.	
		RM 's comments. BSH response was that the change was considered necessary so as to not have an impact on any datasets already produced. RM invited to consider submission his comments to the next meeting if appropriate.	
4.6	Units of Measure	[Decision 6/18] S-100WG confirmed that Unit of Measure information should be held in the GI Registry and approved the updating of the GI Registry and the Feature Catalogue Builder to support this information.	
		[Action 6/22] IHO Sec/KHOA to amend the GI Registry to be consistent in terms of fields and terminology with S-100 2a-4.2.11 and to expose a Units Of Measure Codelist for users.	Report the progress at the next WG7
4.7	Real Time Data	DG: noted that S-100 Part 9 already includes the model as proposed in the paper. He suggested that the removal of the guidance in Part 9 should be part of the action from this paper. [Decision 6/19] S-100WG approved to move forward with the	
		redline version, including amendments to Part 9, nothing that some minor clean-up is required. [Action 6/23] JP, RMM and DG to update the redline version of Part 1 and 3 and amend Part 9 with this proposal and submit to Chair	Deadline: middle of Feb
4.8	Portrayal of Discrete	for inclusion in Ed. 5.0.0. [Decision 6/20] S-100WG approved the change proposal to Part 9 and 9a as presented at the meeting.	
	Coverage	[Note] NIWC - Support the proposal, but note that this implements a capability that is not described in Part 8. It will be discussed for the next version of S-100.	

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4.9	Roles in FC	[Decision 6/21] S-100WG approved the change proposal to S-100	
		Part 5 section 4.2.5.2, 4.2.5.3 and App 5-A as presented.	
		NIWC: suggested that an action should be taken to notify PTs to update their FCs as soon as possible.	
		YB : further commented that the related tools required a time-line for updating in order to support changes in S-100 Edition 5.0.0.	
		JP : suggested that this should commence on endorsement by HSSC and KHOA will be kept in the loop for the entire development process.	
		[Action 6/24] Chair/IHO Sec to prepare the change log and share with KHOA so as to develop a timeline for updating the FCB tool for Ed. 5.0.0.	Deadline: March 2022
		[Action 6/25] KHOA to submit a timeline for updating toolkits taking into account of Action 6/24 and report on the progress at the next S-100WG meeting.	Deadline: April 2022
4.10	Empty Display Modes	[Decision 6/22] S-100WG approved the change proposal for Ed.5.0.0 draft redline Part 9 Figure 9-20 and clause 9-13.3.18 as presented.	
		[Action 6/26] Chair/KHOA/IHO Sec to check the S-100 Infrastructure for the S-100 PCB, UML Models and S-100 GitHub	
4 1 1	Marking La	Schemas and updates as required.	
4.11	Multiple Viewing Groups	[Decision 6/23] S-100WG approved the change proposal to Part 9 and 9a to allow assignment of multiple viewing groups per drawing instruction as presented.	
		[Action 6/27] Chair/KHOA/IHO Sec to check the S-100	
		Infrastructure for the S-100 PCB, UML Models and S-100 GitHub	
		Schemas and updates as required.	
4.12	Portrayal for Cross-Feature	[Decision 6/24] S-100WG approved the change proposal to Part 9 and 9a to clarify Portrayal of Cross-Feature Dependencies.	
	Dependencies	[Action 6/28] Chair/KHOA/IHO Sec to check the S-100	
		Infrastructure for the S-100 PCB and updates as required.	
4.13	Part 9a Line	[Decision 6/25] S-100WG approved the change proposal to Part 9a	
	Placement	to correct applicability of LinePlacement.	
		[Action 6/29] IHO Sec to apply the change to the Part 9a redline.	
4.14	ISO 639-2/	[Decision 6/26] S-100WG approved the revised change proposal to	
	T language code	Part 10b to ensure consistent usage of three letter language codes as	
		presented at the meeting with minor editorial amendments.	
		[Action 6/30] DG (NIWC) to amend the change proposal for minor	
		editorial changes as discussed at the meeting and perform a	
		consistency check throughout S-100, and provide the amended	
		proposal to the IHO Sec for updating S-100 Part 10b.	

AGENDA	SUBJECT	ACTIONS	Remarks
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4.15	Part 10a	[Decision 6/27] S-100WG approved the change proposal to Part 10a to add guidance for encoding unknown attribute values with a minor amendments proposed by HB .	
		[Action 6/31] DG (NIWC) and HB (SevenCs) to update the redline version of Part 10a and to submit to IHO Sec for the Ed. 5.0.0.	Deadline: middle of Feb
4.15A	Attribute encoding	HB : Stated that some issues in the paper are not clear enough in the change proposal and invited to discuss a way forward.	
		HB: Codelist should be revisited to be clear for all S-100 Parts with some options.RM: How should codelists be encoded in Part 10a. Acceptable	
		options as proposed by HB.	https://github.com/l
		JP: In principle, the codelist can be included in Part 10a. DG: Suggested that interested parties (including HB, RM, JP) resolve this in the S-100WG Github. GFM should be resolved as well.	HO- S100WG/TSM8/issu es
		[Decision 6/28] S-100WG decided to resolve the issues raised in the paper taking into consideration discussion at the meeting in the S-100WG Github.	
		[Action 6/32] HB/DG/JP/RM and S-100 experts to discuss the Codelist issue of the paper in the S-100 Github and submit the change proposal to the S-100WG for approval.	Deadline: middle of Feb
		 The meeting reviewed the Table included in the paper. Boolean: agreed on 1(True) and 0 (False). Real type and encoding of "infinity": DG opinion is that if this is not allowed in 8211 it should not be allowed in any of the encodings. Truncated date: RM noted that truncated date has been removed from ISO. Agreed that if the year is not to be included it should be 4 dashes, not 3. 	
		[Decision 6/29] S-100WG agreed in principle with the proposal, nothing that further work is to be done.	
		[Action 6/33] HB (SevenCs) to submit the revised version of the change proposal to S-100WG for approval.	Deadline: middle of Feb
4.16	PC Display Mode	[Decision 6/30] S-100WG approved the change proposal to Part 9 in section 9-13.3.17 that the displayMode multiplicity should be amended to 0*.	
4.17	Vertical CRS	Withdrawn the proposal incorporated into agenda 4.2	

AGENDA	SUBJECT	ACTIONS	Remarks
ITEM	X 1' 1 .' C	(in bold, action by)	
4.18	Validation of Portrayal Input	[Decision 6/31] S-100WG approved the change proposal to Part 9 and the XSLTPR Schema as presented.	
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		S-101PT Chair : Supported this and for S-101 although optional it is	
		needed and is an example where we can build documented	
		information into the model to provide flexibility and more machine	
		readability.	
		[Action 6/34] Chair/KHOA/IHO Sec to check the S-100	
		Infrastructure for the S-100 PCB, UML Models and S-100 GitHub	
		Schemas and updates as required.	
4.19	Part 9 input	[Decision 6/32] S-100WG approved the change proposal to Part 9 as	
	XML	proposed in the redline version which describe how to generate	
		generic input XML for portrayal processing, rather than describing	
		how product specification developers can create product specific input	
		schema.	
		[Action 6/35] DG/IHO Sec to consolidate all the NIWC proposals	Deadline: middle
		approved by the S-100WG in a revised Part 9.	of Feb
		[Action 6/36] Chair/RM to check the S-100 Infrastructure for the S-	Next WG7 meeting
		100 UML Models and S-100 GitHub Schema, and updates as	West wor meeting
		required.	
4.20	Data type	[Decision 6/33] S-100WG approved the change proposal to be	
	Format	retained for ISO and GML compatibility as presented.	
		[Action 6/37] IHO Sec to apply the changes related to data type	
		format to Part 1 as proposed.	
4.21	S-100 Part 2	[Decision 6/34] S-100WG approved the S-100 Part 2 revision	
		reflected in the current GI registry system and operation such as	
		Concept Register and Data Dictionary Register that agreed upon the	
		previous WG meetings in principle as a way forward.	
		[Action 6/38] S-100WG to invite to review the redline version of	Deadline: middle
		Part 2 and submit comments to IHO Sec by mid-February 2022.	of Feb
4.21A	S-99 Ed.2.0	[Decision 6/35] S-100WG approved the S-100 Part2 revision as a	
		reflection of the current GI Registry implementation including the	
		Concept Register and Data Dictionary Register as agreed upon at	
		previous WG meetings in principle as a way forward.	
		[Action 6/39] S-100WG is invited to review the redline version of S-	Deadline: middle
		99 Ed. 2.0.0 for editorial comments and submit feedback to IHO Sec	of Feb
		by mid-February 2022.	

4.22 S-100 Part 15 Decision (636) S-100WG approved the proposal as followings; • The redulic version of Part 15 as presented. • The creation of New IHO Technical Resolution detailing the algorithms used by S-100 for data protection and authentication. • The creation of procedural documentation by the IHO Secretariat, Member States and Industry participants covering the details of the implementation of the IHO security scheme under S-100 based on the proposed content at the meeting as a guide. S-101PT Chair: No specific comments on Part 15 but noting the consequential action re producer codes, propose that 4 digit codes are all registered rather than the current padding of the 2 digit codes with zeroes, which seems a little "loose". YB: Replied to S-101PT Chair comment. IHO Sec/KHOA is working on a revision to the Producer Code Register to support 4 digit Producer Codes. IIB: Pointed out that there are still some examples of "old" encoding in Part 15 – these will need to be addressed. S-100WG Chair: There is a resource requirement on the IHO Sec in regard to supporting the S-100 Security Scheme. JP agreed in that for a time the IHO Sec would need to support both S-63 and S-100. This needs to be reported to the HSSC. Decision 637] S-100WG agreed to form S-100 a Data Protection Correspondence Group (DPCG) to draft the IHO Technical Resolution and a Guidance Document for the details of the implementation of the S-100 security scheme. The DPCG will be disbanded when their duty has been completed. [Action 644] EPCG (lead by JP (IIC)) to submit the redline version of the Guidance Doc. For implementation of the S-100 Security Scheme. [Action 644] DPCG (lead by JP (IIC)) to submit the redline version of the Guidance Doc. For implementation of the S-100 Security Scheme. [Action 644] SPCG to submit a draft an IHO Technical Resolution regarding S-100 Security Scheme algorithms for approval. [Action 644] KHOAJIHO Sec to report on the progress of Producer Code Register in the GI Registry at the next WG meeting.				
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[Action 0/44] KitOA/1110 Sec to report on the progress of Fronteen				

AGENDA ITEM	SUBJECT	ACTIONS (in bold, action by)	Remarks
4.23	Machine Readability	[Decision 6/38] S-100WG approved the proposal to be included in the S-100 Ed.5.0.0 for Recommendation #1 and #2.	
		[Action 6/45] EM(CCG) to submit the redline version to the relevant S-100 Parts for Recommendation #1 and #2.	
		[Action 6/46] EM to provide a guidance to PS developers for their action to be compliant with Ed 5.0.0 of S-100.	
			Deadline: middle of Feb 2022
			Next WG7
4.24	Multilingual Support	[Decision 6/39] S-100WG approved the proposal incorporated into Ed. 5.0.0 of S-100 in principle subject to meet to the deadline for submission to HSSC14.	
		[Noted] There was general support for this proposal, it was considered that the timeframe to do the development work and reconcile with all PSs being developed in conformance with Ed. 5.0.0 was far too tight. S-100WG Chair suggested that this item is tabled and EM convene a separate VTC and report back on Thursday.	
		[Action 6/47] EM/HB/DG/RMM to convene an out of session meeting to discuss a way forward for the proposal and report the outcome to WG6 by Friday, 14 th Jan. 2022.	Completed
		[Noted] Recommendation of the offline VTC discussion was for the inclusion of a new Part 18 "Multi Language Functionality "in S-100 Edition 5.0.0.	
		[Action 6/48] EM (Canada) to submit the redline of the translation file schema and a new S-100 Part 18 as agreed at the meeting that outlines how Multi Language Functionality of S-100 XML resources works using translation files; for Ed. 5.0.0 of S-100.	Deadline: Feb 2022
4.25	S-100 Part 9 for	[Decision 6/40] S-100WG approved the change proposal to clarity	
	Area Fills	that boundary must be included.	
		[Action 6/49] IHO Sec to apply the change related to area fills to Part 9 as proposed.	
4.26	Part 5 Feature Catalogue	[Decision 6/41] S-100WG supported this minor addition to Part 5 of S-100 in the forthcoming edition 5.0.0 in order to greatly simplify feature catalogue creation and maintenance as well as improve the quality of the data being produced.	
		[Action 6/50] IHO Sec to apply the change related to the Feature Catalogue model to Part 5 as proposed.	Deadline: February 2022
		[Action 6/51] KHOA in consultation with HA (CARIS) to update the FCB tool as required and report on the progress at the next WG meeting.	Next WG7 meeting

AGENDA	SUBJECT	ACTIONS	Remarks
ITEM		(in bold, action by)	
	Wrap up	[Decision 6/42] S-100WG agreed to finalize redlines for accepted	
		proposals and any remaining issues to be resolved by correspondence	
		and if needed have a special Technical Editing Session at the end of	
		Feb. 2022 and to submit S-100 Ed. 5.0.0 to HSSC14, deadline by	
		20th March 2022.	
		[Action 6/52] S-100WG Chair/IHO Sec to provide to KHOA a	Deadline: March
		documented list of accepted proposals to Edition 5.0.0 and note if that	2022
		proposal will have an impact on the S-100 Infrastructure.	
		[Action 6/53] S-100WG Chair/IHO Sec/KHOA to set up a timeline	
		on updating the infrastructure to S-100 Ed.5.0.0 once Ed. 5.0.0 has	Deadline: August 2022
		been approved by HSSC.	2022
	nteroperability S _I	pecification	
5.1	Interoperability	[Decision 6/43] S-100WG approved S-98 Edition 1.0.0 as proposed	
	Specification	for submission to HSSC14 for endorsement according to IHO	
		Technical Resolution 2/2007.	
		[Action 6/54] S-100WG Chair to submit the draft Ed.1.0.0 of S-98	HSSC14
		to the HSSC14 meeting for endorsement.	
		[Noted] The Ed.1.0.0 of S-98 will become the testing and	
		implementation edition and allow the S-100WG to continue to refine	
		the standard.	
		S-100WG Chair: Noted that the focus of the discussion at this	
		meeting was the new Annex C, which includes S-52 guidance that up	
		to this time had no place in any other S-100 related documentation;	
		and details on the implantation of water level adjustment.	
		BH (Sweden): Suggested to invite ENCWG, NCWG to be involved in	
		the S-98 Correspondence Group (CG) and hold and S-98 workshop	
		involving cartographers and mariners for the refinement of S98.	
		S-100WG Chair : Other thing to note is that user selected safety	
		contour is included in Annex C-4 as well. This provides safety	
		contours on S-102/S-101.	
		[Decision 6/44] S-100WG agreed to convene a S-98 workshop to	
		demonstrate and test with other experts, cartographers and mariners	
		when the face to face situation is allowed.	
		[Action 6/55] S-100WG Chair to consider holding a S-98 workshop	WG7/8
		as recommended at the meeting and report the activity to the next S-	110//0
		100WG meeting if as appropriate.	
		HSSC Chair: recommended that the S-100WG Chair provide a	
		demonstration of S-98 functionality and purpose for HSSC and the	
		IHO Council.	

AGENDA	SUBJECT	ACTIONS	Remarks
ITEM		(in bold, action by)	
5.2	Lights Outside	[Decision 6/45] S-100WG agreed to consideration of the change	
	the Display Window	proposal for incorporation into the Ed.1.1.0 of S-98.	
		[Action 6/56] S-101PT Chair/Vice-chair to develop a harmonized	WG7/8
		solution on lights located outside the display window and submit to	
		the next S-100WG for consideration.	
		[Noted] HP, HB, RF (Denmark) to participate in the development of	
		the change proposal.	
5.3	Mariner	[Decision 6/46] S-100WG agreed to consideration of the change	
	Selected Dates	proposal for incorporation into Ed.1.1.0 of S-98 and recommended	
	and Safety	that further work be done in consultation with the ENCWG in regard	
	Checks	to date dependant safety checking.	
		[Action 6/57] S-101PT Chair to prepare the revised change proposal	WG7/8
		on mariner selected dates and safety checks as recommended and	
		submit to the next S-100WG for consideration.	
5.4	New	TSSO : This proposal needs to go to the NCWG and for consideration	
	Abbreviations	to be included in S-4 before it can be included in S-98.	
		S-100WG Chair: Noted that NCWG should take this proposal for	
		discussion at its next meeting (or by correspondence).	
		NCWG Chair: It would be taken into consideration if the proposal is	
		submitted to the NCWG.	
		[Noted] This kind of Abbreviation should be registered in the GI	
		registry and then S-98 would be referring to the GI registry. This	
		approach has been agreed in general.	DW
5.5	Portrayal of S- 100 ECDIS	Left blank intentionally	INF
S-100	General Topics		
6.1	SENC and	France to do more research so this will be presented at the next S-	
	SENC Delivery	100WG meeting and likely raise this at HSSC14.	

AGENDA	SUBJECT	ACTIONS (in hold action by)	Remarks
6.2	Dual Fuel	(in bold, action by) [Noted] During the presentation, there were several issues raised for	
0.2	Governance	[Noted] During the presentation, there were several issues raised for Metadata, Sanity check for ECDIS, PS versioning, Freezing of S-100	
	Governance	and ECDIS carriage requirements etc.	
		and ECDIS carriage requirements etc.	
		On "Freezing" Ed. 5.0.0 of S-100, S-100WG Chair stated that it is	
		not about freezing S-100 at Ed.5.0.0 however allow clarifications and	
		corrections only. Edition 6.0.0 will be focussed on extensions.	
		Corrections only. Edition 6.6.6 will be focussed on extensions.	
		YB : DF-Concept doc will be incorporated into the S-100	
		Implementation Roadmap according to HSSC13/26 (decision),	
		suggest to add some relations to the S-100 roadmap.	
		suggest to add some relations to the 5 Too roadinap.	
		EM : in the ECDIS Performance Standard revision discussions, we've	
		proposed to define ENC as chart + npubs. This simplifies the overall	
		ECDIS PS, but the move, if approved, will have some impact on this	
		governance document's attempts of categorization.	
		ENCWG Chair : If it's not in S164 its not tested by type approval and	
		therefore the user cannot be assured that the specification has been	
		implemented correctly	
		S-100WG Chair: Suggested circulating the document for WG	
		review. JP will be happy to receive comments via track-changes	
		incorporated directly into the draft.	
		[Decision 6/47] S-100WG noted the progress and agreed to a short	
		comment period for the S-100WG for completion by mid-Feb 2022	
		and submit to HSSC14 for approval.	
		[A -4] (/50] C 100Y/C A	
		[Action 6/58] S-100WG to review the draft proposed at the meeting	Deadline: mid-Feb
		and provide their comments to JP(IIC) and IHO Sec by mid-Feb	2022
		2022. JP to consolidate comments and convene a VTC meeting to solve the issues raised if necessary.	(Completed)
		solve the issues faised if fiecessary.	
		[Action 6/59] S-100WG Chair to report to the next WENDWG	
		describing the DF Governance document and request to the WG to	
		review and provide feedback in due course.	Deadline: Feb 2022
		To view and provide resident in the control	2022
		[Action 6/60]S-100WG Chair to submit the draft DF Governance	
		document to HSSC14 for approval.	HSSC14
6.3	ECDIS	IHO Director , Abri presented. No paper or presentation.	
	Performance	- A correspondence group is about half way through reviewing	
		the IMO Performance Standards documentation. Next	
		meeting will be held end of Jan/early Feb after which	
		outcomes will be presented to IHO MS, with the aim of	
		presenting to NCSR in June 2022 (nothing that this has been	
		included in the NCSR Agenda).	
		- Noted support from CIRM and INTERTANKO	
6.4	S-164		

AGENDA	SUBJECT	ACTIONS	Remarks		
ITEM		(in bold, action by)			
6.5	Validation	[Decision 6/48] S-100WG agreed to set up two Sub-Groups dealing with S-164 and Validation. [Action 6/61]S-100WG Chair to send out a WG letter asking for volunteers to participate in the new S-164 and S-100 Validation Sub-Group. [Noted] S-101PT has a Sub-Group that is looking at validation for S-	Deadline: Feb 2022		
		101.			
6.6	Geodetic Reference and Coordinate Encoding	 [Decision 6/49] S-100WG agreed to add two work items as proposed at the meeting. Analyse potential issues related to the handling of geodetic reference systems and coordinates in S-100 and S-100 based PSs. In liaison with related WGs and PTs propose solutions for these issues that, on a long-term basis, could be implemented in future versions of S-100, S-100 based PSs and the GI registry. 	WG7		
		[Action 6/62] BH (Sweden, lead) to report on the progress of the work item at the next S-100WG meetings. [Action 6/63] S-100WG members to indicate their intention to BH and IHO Sec to the participation in the Sub-Group to further develop the issue of geodetic referencing and coordinate encoding.	WG7		
6.7	PS Name/ID	[Decision 6/50] S-100WG agreed to be considered in a post-Edition			
		5.0.0 of S-100 and further guidance may be included in S-97.			
S-101 Strategic Topics					
7	· ·	Left blank intentionally			
S-100 Project Team Reports					

AGENDA	SUBJECT	ACTIONS	Remarks
ITEM		(in bold, action by)	
8.1	S-102	[Decision 6/51] S-100WG approved S-102 Product Specification Ed. 2.1.0 as proposed and agreed to submit to HSSC14 for endorsement	
		according to IHO Technical Resolution 2/2007. [Action 6/64] S-100WG Chair to submit Ed. 2.1.0 of S-102 to	HSSC14
		HSSC14 for approval and prepare a demonstration of S-102 products in accordance with intended S-98 interoperability for navigational purpose; especially the water level adjustment.	
		[Noted] Requests for the non-navigational purpose of S-102 have been continuously raised, and the establishment of a development plan has been requested of the S-102PT.	
		[Action 6/65] S-102PT Chair to submit a timeline for the development for the S-102 non-navigational content to the next S-100WG.	Deadline: WG7
		[Decision 6/52] S-100WG requested S-102PT to discuss a solution for navigation and non-navigation purposes for the PS.	
		[Action 6/66] S-102PT Chair to submit a report on the task for a way forward for both, navigational and non-navigation requirements for S-102 to the next S-100WG.	Deadline: WG7
8.1D	S-102 with S-57	[Noted] S-100WG Chair: The proposal is not within the remit of S-100WG. The recommendation of the S-100WG is to submit this proposal to the IHO ENCWG.	INF paper
8.1E	-	Noted the paper.	
8.2	S-121	Left blank intentionally	
8.3	S-129	Left blank intentionally	
8.4	S-101	[Decision 6/53] S-100WG approved the work plan of S-101PT as presented.	
		[Action 6/67] S-101PT Chair to report on the progress of S-101PS development to HSSC14.	
8.5	S100P	[Action 6/68] S-100WG members to consider providing Test Data Sets of S-100 products to the S1OOP Project Chair.	WG7
	Test Bed Reports		
9		Left blank intentionally	
Exter 10	nal Liaison Repor	Left blank intentionally	
)than Ducinass	рын тапк тепионану	
11.1	Other Business Repository	[Decision 6/54] S-100WG/S-101PT agreed to migrate the current S-	
11.1	Repository	100WG/S-101PT GitHub repository created by the S-100WG/S-101PT to IHO GitHub managed by IHO Sec and to post information regarding this repository on the IHO homepage.	
		[Action 6/69] S-100WG Chair/S-101PT Chair/IHO Sec to migrate the S-100WG/S-101PT GitHub repositories to the IHO GitHub and post the lists and associated information on the IHO homepage, and notify the S-100WG accordingly.	Deadline: June 2022

AGENDA	SUBJECT	ACTIONS	Remarks
ITEM		(in bold, action by)	
11.1	Office bearers	[Decision 6/55] S-100WG elected Julia Powell (USA) as S-100WG	
		Chair, and Elizabeth Hahessy (Denmark) and Iji KIM (Rep. of Korea) as co-Vice-Chairs.	
		[Action 6/70] S-100WG Chair in consultation with Co-Vice Chairs	
		to inform the IHO Sec of the order of acting Chair in accordance with	
		the S-100WG TOR Paragraph 3. e) at the earliest opportunity.	
Date & Location of the next meetings			
12	VTC	[Decision 6/56] S-100WG agreed to hold its next full S-100WG	
		meeting as face-to-face if the circumstances permit, and supported to	
		the plan of S-100WG events as followings.	EG(Editing Group
		- EG: Feb/March 2022 / Monaco (tbd)	for Ed.5)
		- WG7: Nov/Dec 2022 / Monaco (tbc)	,
		- TSM9 : Spring, 2023 / TBD	
		- WG8: September 2023 / TBD	
		- TSM10 : Spring, 2024 / TBD	
		The date for WG7 will be determined around the end of June 2022	
		and WG members notified accordingly.	