

10th S-129 UKCM Project Team Meeting Record of Meeting

1130 – 1330 GMT, 29 February 2024
VTC via GoToMeeting

1.1 Welcome and Introductions / Review of Meeting Agenda

The Chair opened the meeting at 1130 GMT and welcomed S-129 Project Team (PT) members as well as other delegates from the S-100 Working Group (WG). Refer to Annex A for the list of participants.

The Chair provided an overview of the draft meeting agenda (Annex B). There were no new agenda items proposed by the meeting participants.

1.3 Review of Previous Meeting Action Items

The Chair provided an update on the progress of existing action items.

The progress of the action items, as at the 10th PT meeting commencement, are reflected in Annex C, and as follows:

PT8-01 – Obtain feedback from Jonathan (IIC Technologies) regarding suitable S-164 test areas for S-129

The Chair has recently engaged Jonathan Pritchard (IIC Technologies). Jonathan advised that the S-129 PT needs to provide the S-164 subgroup with a set of test dataset scenarios, and mock-up images to illustrate the scenarios. Based on these scenarios, as well as the latest available S-129 Feature Catalogue and Portrayal Catalogue, the S-164 subgroup can produce the corresponding test datasets. The S-164 subgroup can also produce exchange sets for the transfer and loading the test datasets.

The Chair also noted as having compiled an initial set of S-129 test dataset scenarios, but contribution from other team members or stakeholders was necessary to ensure enough scenarios are included.

Based on Jonathan's feedback, the Chair suggested that this action item be superseded by a new action item to provide the S-164 subgroup with S-129 test dataset scenarios and corresponding mock-up images.

PT8-02 - Design and propose UKCM area boundary portrayal (i.e. symbolised magenta line with "UKC" text label

The UKCM area boundary portrayal had been discussed throughout several S-129 PT meetings, throughout which the symbology had been refined. Notably during the 9th S-129 PT meeting (Singapore, November 17th, 2023), the team proposed the symbolised boundary line's label to be amended to "UKCM", instead of "UKC".

As such, action item PT8-02 is now superseded by action item PT9-02.

PT8-03 – Obtain feedback from Mikko (NCWG) and Izzy (KHOA) regarding portrayal of UKC non-navigable area, UKC almost non-navigable area, and UKCM area boundary

The Chair noted this action item as outstanding. Once the draft symbol and LineStyle for the UKCM area boundary are agreed on within the S-129 PT, the portrayal of S-129 features will need to be reviewed by NCWG.

Once the portrayals are approved by NCWG, then UKCM area boundary LineStyle will have to be formally submitted for approval through the IHO Geospatial Information Registry.

PT8-04 – Work on or assign compiling of test dataset screenplay

This action item is to be superseded by a new action item to provide the S-164 subgroup with S-129 test dataset scenarios and corresponding mock-up images.

PT8-05 – Discuss Exchange Set preparation with Jonathan Pritchard (IIC Technologies)

As this action item relates to the compilation of S-164 test datasets, this action item is to be superseded by a new action item to providing the S-164 subgroup with S-129 test dataset scenarios and corresponding mock-up images.

PT8-06 – Update S-129 Product Specification to include *DataCoverage* feature

This action item is now closed. During the 9th S-129 PT meeting, the PT decided the *DataCoverage* feature is not necessary for S-129, but the *DataCoverage* metadata needs to be made mandatory.

PT8-07 – Update S-129 Feature Catalogue, Portrayal Catalogue, and XML schema to include *DataCoverage* feature

This action item is now closed. During the 9th S-129 PT meeting, the PT decided the *DataCoverage* feature is not necessary for S-129, but the *DataCoverage* metadata needs to be made mandatory.

PT8-08 – Produce test datasets based on S-129 Edition 1.1.0

The Chair noted this item to be in progress. Bluemap has produced test datasets as part of updating and testing the S-129 Portrayal Catalogue to include the UKCM Plan area boundary portrayal. In the meantime, OMC International is working to produce S-129 datasets that now conform to S-129 Edition 1.1.0. Additionally, once S-129 test dataset scenarios are compiled and provided to the S-164 subgroup, test datasets are expected to be produced under S-164.

PT8-10 — Provide 1.1.0 FC, PC, TDS to KRISO & NIWC for testing on viewer software

The Chair noted this action item as outstanding, due to its dependency on the progress of action item PT8-08.

PT8-11 — Identify and incorporate any necessary updates in S-129 Production Specification, pertaining to S-421

The Chair noted that this action item is outstanding and was to be discussed in this meeting.

PT8-12 – Provide S-129 SharePoint page access to PT members requesting access

The Chair noted not having facilitated S-129 SharePoint page access to S-129 PT members, who may have previously requested access. The Vice-Chair offered to screenshare the S-129 SharePoint page during the latter part of the meeting, so the PT could share thoughts on how it could be used and provide value, in addition to the S-129 GitHub repository. The Chair agreed to include this discussion under “Other Business” agenda item of the meeting.

PT9-01 – Remove centre-symbol from draft “UKC analysis area”

As the inclusion of a centre-symbol was not implemented in S-129, it was noted that no further changes are required, and that this action item can be closed.

PT9-02 – Update “UKC analysis area” line style text to “UKCM”

The Chair has recently been working with Korea Maritime and Ocean University (KMOU) and Bluemap to incorporate the draft symbol and LineStyle into the S-129 Portrayal Catalogue.

The draft “UKCM” text label, and the resulting symbolised LineStyle, are depicted in Figure 1 and Figure 2 below, respectively.

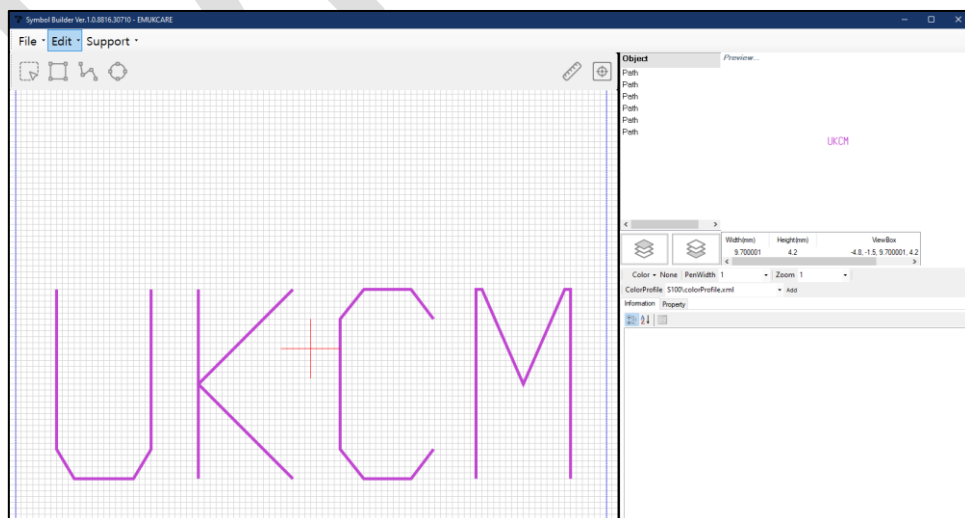


Figure 1 Draft “UKCM” text label to include in symbolised LineStyle for UKCM area boundary portrayal, as loaded on S-100 SymbolBuilder

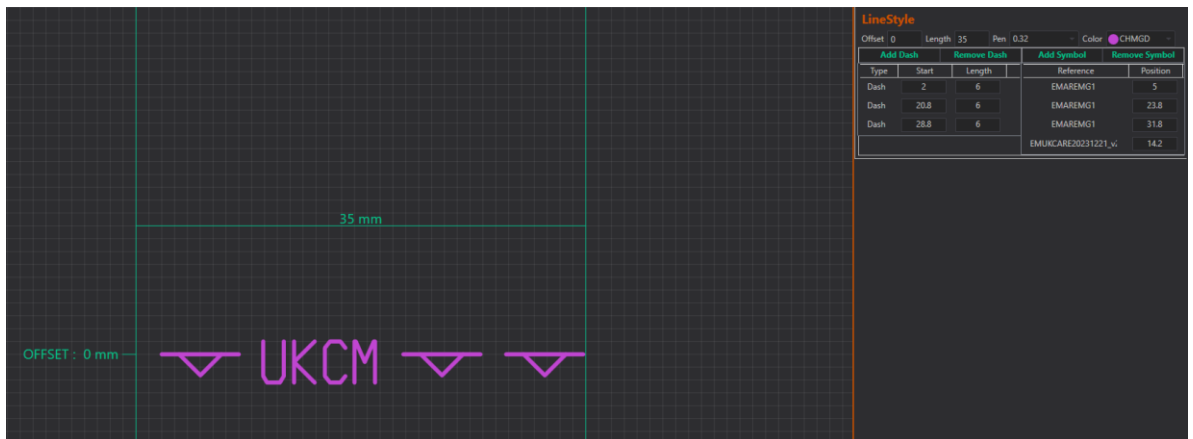


Figure 2 Draft UKCM area boundary portrayal, as loaded on S-100 LinePatternEditor

The Chair offered to screenshare the drafts during the meeting.

PT9-03 – Set “UKC analysis area” transparency at 50% in S-129 Portrayal Catalogue

The Chair noted that corresponding changes to the S-129 Portrayal Catalogue was currently in progress.

PT9-04 – Update description for *UnderKeelClearancePlan*'s spatial attribute in S-129 Product Specification

The Chair noted this action item as outstanding.

PT9-05 – Amend PC - "no-go" and "almost no-go" areas as solid fill with 50% transparency

The Chair noted that corresponding changes to the S-129 Portrayal Catalogue were currently in progress.

PT9-06 – “*dataCoverage*” metadata to be made mandatory (if not already)

The Chair noted this action item as closed, as the “*dataCoverage*” metadata is already stipulated as mandatory in the current S-129 Product Specification.

PT9-07 – Update remarks against "*sourceRouteName*" and "*sourceRouteVersion*" attributes as per above in S-129 PS

This action item is outstanding. It relates to the usage of S-421 for S-129, and therefore was to be discussed under the “S-421 discussions” agenda item of this meeting.

PT9-08 – Review Edition 5.2.0 redlines when available, and analyse impact on S-129

The Chair indicated that an initial review of the S-100 Edition 5.2.0 redlines was conducted, with potential impact on S-129 identified. However, there were likely other changes to also potentially impact S-129, and therefore should be discussed further in this meeting.

PT9-09 – Check multiplicity of "*temporalExtent*" and "*editionNumber*" metadata in S-129 PS, and make mandatory (if not already)

The multiplicity of "*temporalExtent*" and "*editionNumber*" metadata needed to be checked to ensure the facilitation of S-129 dataset cancellation, either via self-cancellation or through new datasets.

The Chair noted that both metadata currently were not likely to be set as mandatory in the S-129 Product Specification, and therefore amendments were necessary in the Product Specification.

PT9-10 – S-98 Annex C 21.3 to be checked for any description of cancellation through same dataset filenames

An initial review of S-98 Annex C by the Chair indicated there being no guidelines for dataset cancellation through same dataset filenames. On the other hand, S-100 Part 17 appeared to provide guidance.

However, the Chair had endeavoured to double check S-98 Annex C and S-100 Part 17, and share findings with the S-129 PT.

Raphael Malyankar (Portolan Sciences) confirmed that Part 17 of the draft S-100 Edition 5.2.0 contains new material pertaining to dataset cancellations.

Raphael also commented that there are ongoing discussions around dataset cancellations in the WENWG, and that the forthcoming TSM10 (Mar 12th-15th, 2024) were likely to include discussions around how exactly dataset cancellations should be handled. Hence the S-129 PT should keep an eye on the outcomes of TSM10.

PT9-11 – Update S-129 PS Chapter 18 with 20MB data size limit

This action item had resulted from S-100 WG's recommendations to consider possible data exchange limitations for S-129, as the S-129 Product Specification currently does not specify dataset size limits.

The 20MB upper size limit was selected by the S-129 PT as a suitable starting point, based on typical data size limits for other S-1xx products. Noting S-129 dataset sizes would vary based on the UKCM area extent and the usage scenario, the data size limit is to be reviewed on an ongoing basis.

The amendment to the S-129 Product Specification had not yet been made, and this action item is therefore outstanding.

PT9-12 – Schedule VTC for Validation Check discussions

The S-129 specific Validation Checks were previously identified and provided to the Validation Check subgroup back in March 2023 (Action Item PT6-9). However, during the 9th S-129 PT meeting (Nov 17th, 2023), the S-129 PT agreed a further review of the S-129 Validation Checks was needed, upon S100WG's circulation of a template for the S-1xx Product Specifications' validation checks (S-100 WG8 Action 8/16).

PT9-13 – Submit revised timeline for S-129 Ed. 2.0.0 to S100WG by December

The Chair closed this action item, as the revised S-129 Edition 2.0.0. timeline was provided to the S-100 WG.

PT9-14 – Propose date for next S-129 PT meeting (VTC)

This action item was closed.

As per the Chair's comments, Action Items PT8-1, PT8-4, and PT8-5 are superseded by a new action item to provide the S-164 subgroup with S-129 test dataset scenarios and mock-up images.

Action PT-10-01 – Provide S-164 subgroup with S-129 test dataset scenarios and accompanying mock-up images

During discussions of existing action items, Yong Baek (IHO Secretariat) commented via meeting chat that the new contact person for KHOA was Marin Park, following Izzy Kim's departure from the S-100 WG. The Chair noted this change in KHOA contact.

Mikan Stamenkovich (NIWC) then asked via meeting chat if S-129 Edition 1.1.0 test data were being produced to S-100 Edition 5 schema. The Chair replied that S-129 Edition 1.1.0 conforms to S-100 Edition 5 schema, and hence S-129 test datasets are to conform to S-100 Edition 5 schema accordingly.

2.1 Portrayal Catalogue updates

The Chair provided the PT with an update with regards to the UKCM area boundary portrayal.

As part of Action Item PT9-02, the “UKCM” text symbol, which is to be included in the UKCM area boundary’s LineStyle, was drafted using the S-100 Toolkit’s SymbolBuilder. The resulting UKCM area boundary LineStyle was drafted through the S-100 Toolkit’s LinePatternEditor.

The Chair also noted a suggestion from Jonathan Pritchard (IIC Technologies) that the S-129 PC also needs to incorporate a “plain version” LineStyle for the UKCM area boundary, in addition to the drafted symbolised LineStyle. The aim of including a “plain version” is to provide end users with the option to toggle on or off the symbolised version of the UKCM area boundary. The Chair showed the meeting participants a mock-up of the “plain version” LineStyle, which was presented as a dashed magenta line.

The Chair reiterated that the purpose of portraying the UKCM area boundary was to improve navigational safety by distinguishing between the “UKC go areas” and areas not in the scope of UKC calculations. The Chair then invited the meeting participants to provide comments on the UKCM area boundary portrayal, and if no objections, proposed to submit a proposal for the Portrayal Catalogue changes, as well as the accompanying addition of the new symbol and LineStyle.

Yong suggested that the proposed change/additions be first presented to the NCWG for comments and guidance, and asked the Chair if guidance has already been sought from the NCWG. The Chair explained that while the NCWG comments were previously sought, the Chair had not done so again following the latest developments of the UKCM area boundary portrayal. The Chair endeavoured to contact NCWG again to seek their feedback on the draft changes (outstanding action item PT8-3). The Chair asked Yong if Mikko Hovi (Traficom) was still the best NCWG point of contact. Yong confirmed Mikko, as the chair of the NCWG, was the best point of contact.

The Chair also provided meeting participants with an overview of the required S-129 Portrayal Catalogue changes. In addition to incorporating the UKCM area boundary portrayal, changes also included amending the transparencies of “*UnderKeelClearanceNonNavigableArea*” and “*UnderKeelClearanceAlmostNonNavigableArea*” features to 50%, as agreed in the previous S-129 PT meeting (Nov 17th 2023, Singapore).

Many of these changes were currently being developed by Bluemap under a forked version of the “S-129-Product-Specification” GitHub repository.

2.2 Product Specification Corrections and Clarifications

The Chair then provided meeting participants with an overview of S-129 Product Specification changes, which have been identified as necessary as a new Edition 1.2.0. Changes included the following:

	Description	Reason
1	Updates to remarks against " <i>sourceRouteName</i> " and " <i>sourceRouteVersion</i> " attributes under the " <i>UnderKeelClearancePlan</i> " feature	To emphasise that route plan information may be provided by different methods including, but not limited to, S-421.
2	Update description for <i>UnderKeelClearancePlan</i> 's spatial attribute in S-129 Product Specification	To reflect the planned portrayal of UKCM area boundaries.
3	Set " <i>temporalExtent</i> " and " <i>editionNumber</i> " metadata as mandatory	To ensure correct guidance on S-129 dataset cancellation.
4	Update S-129 PS Chapter 18 with 20MB data size limit	To improve guidance on recommended S-129 dataset sizes, identified as currently insufficient in the S-129 Product Specification.
5	Other changes	General inconsistencies or ambiguities identified throughout the S-129 Product Specification.

The Chair and Vice-Chair volunteered to continue updating the S-129 Product Specification as per action items PT9-04, PT9-07, PT9-09, and PT9-11, as well as other changes identified as required.

3.1 S-100 Edition 5.2.0 Changes

The Chair presented an initial list of potential S-129 changes resulting from the S-100 Edition 5.2.0 redlines, as follows:

S-100 Part	S-100 Clause	Description	Impact on S-129?
3	3-10.1	Optional " <i>interoperabilityIdentifier</i> " attribute	Optional attribute
5	Appendix 5-A	Optional " <i>attributeVisibility</i> " binding	Optional attribute
15	15-8.4, 15-8.5	ECDSA algorithm	Possible changes to remarks against " <i>digitalSignatureReference</i> " and " <i>digitalSignatureValue</i> " metadata in S-129 Chapter 19

The Chair invited the meeting participants to raise any other S-100 Edition 5.2.0 changes with potential impact on S-129. No comments were provided by the meeting participants.

However, the Chair noted there are likely other S-100 Edition 5.2.0 changes to impact S-129. Thus, a further discussion was needed to correctly identify and effect the subsequent changes in S-129. The

Chair endeavoured to consult experts within the S-100 Working Group to provide feedback around the impact of the three identified S-100 Edition 5.2.0 changes, as well as any other changes, on S-129.

Action PT10-02 – Seek S-100 WG guidance on S-100 Edition 5.2.0 changes that could impact S-129

3.2 Release of S-129 Edition 1.1.0

In the meeting chat, Yong announced that S-129 Edition 1.1.0 has officially been released, with the final Product Specification and Catalogues now available in the IHO GI Registry (https://registry.iho.int/productspec/view.do?idx=196&product_ID=S-129&statusS=5&domainS=ALL&category=product_ID&searchValue=).

Raphael queried, via meeting chat, if the S-129 Edition 1.1.0 schema could be added to the schema server. Yong and the Chair both requested that the S-129 Edition 1.1.0 schema be added to the schema server.

Action PT10-03 – Add S-129 Edition 1.1.0 schema to schema server

3.3 Description of dataset cancellation in S-129 Product Specification

Through the meeting chat, Raphael reiterated that the S-129 PT monitor the outcomes of dataset cancellation discussions in TSM10, after which the S-129 Product Specification should be reviewed and updated as necessary.

Action PT10-04 – Follow TSM10 outcomes with regards to dataset cancellation, and amend S-129 Product Specification as necessary

3.4 Relationship between S-129 and S-421

The Chair noted that the following had been discussed in the 9th S-129 PT meeting (Singapore, November 17th, 2023), with regards to S-421:

- An S-129 Technical Service Specification (TSS) would be the most suitable document to detail how S-421 interacts with S-129
- In the S-129 Product Specification, remarks against the “*sourceRouteName*” and “*sourceRouteVersion*” attributes under the “*UnderKeelClearancePlan*” were to be updated to indicate they could be provided from different sources, and not just through S-421.

The Chair also noted that, even if the current remarks were to be retained, the current references to the S-421 attributes may be out of date, and may need to be updated as follows:

From	To
S-421.Route.routeInfoName	S-421.RouteInfo.routeInfoName
S-421.RouteHistory.RouteHistoryEditionNo	S-421.Route.RouteEditionNo

The Chair pointed out that there were apparent inconsistencies in the S-129 Product Specification, parts of which appeared to suggest S-129 as being intended for use in conjunction with S-421 (e.g. S-129 PS Section 7.1, Section 19.2), while other parts indicated S-421 as an option for providing route information (e.g. S-129 PS Section 18.4). The Vice-Chair added via the meeting chat that, during the

9th S-129 PT meeting (Singapore, November 17th, 2023), it was not clearly discussed whether options other than S-421 were available as sources of route information.

Julius Moeller (AMSA) commented via meeting chat that, while S-421 is the recommended source of route information, the S-129 data model should be defined without any dependency on other product specifications. Thus, Julius suggested the guidance on the usage of S-421 be provided in an S-129 TSS, or as an annex in the S-129 Product Specification. Raphael added, via meeting chat, that the S-421 product specification should also provide guidance on how S-421 datasets are to be used.

Julius further raised, via meeting chat, the use of RTZ could potentially be restricted by backward compatibility limitations.

Stefan Engström (Traficom) shared an idea that the *interoperabilityIdentifier* attribute, introduced under S-100 Edition 5.2.0, could be used to provide S-421 route information in S-129. Stefan explained that the *interoperabilityIdentifier* attribute has been discussed in the S-100 Working Group and NIPWG as being the general means of providing links between features across different products through MRNs. NIPWG was also now participating in S-421 development to create links between nautical publications and route information, and it was likely for the *interoperabilityIdentifier* attribute, as MRNs, to provide these links.

Julius expressed his understanding that the *interoperabilityIdentifier* attribute was intended to be used in the context of a physical object represented by a data object shared between different product specifications. For example, *interoperabilityIdentifier* could be used to link AtoN information between S-101 and S-125. It was uncertain if *interoperabilityIdentifier* could also be used to describe relationships between two separate objects, for example an S-421 route information, and S-129's reference to it. Raphael confirmed Julius' comments on the *interoperabilityIdentifier* attribute's purpose, and agreed it was unclear whether the attribute could be expanded for the use of linking S-421 to S-129. Raphael further elaborated that one of the main intentions behind the *interoperabilityIdentifier* attribute was to support pick reports, which can combine attributes from coincident features from different products. As S-421 route information is not coincident with the S-129 features, it was unlikely to be acceptable to utilise *interoperabilityIdentifier* as a method of providing a link between S-421 and S-129.

Yong pointed out that S-421 is not under the S-100 roadmap. The latest version of S-421 is currently compatible with S-100 Edition 4.0.0, and it was unclear when S-421 would become aligned with S-100 Edition 5.2.0. Yong therefore recommended that S-421 be provided as an option for providing route information to S-129, and that S-129 development continue in accordance with the S-100 roadmap without complete reliance of S-421 maturity.

Julius added that an exclusive reference to S-421 in the S-129 Product Specification would result in the operational context of S-129 being included in the S-129 Product Specification, purpose of which is to provide specification on data format and encoding. The Chair therefore reiterated the need to update the remarks against the *sourceRouteName* and *sourceRouteVersion* attributes in the S-129 Product Specification, to which Julius agreed.

Stefan, via meeting chat, suggested that an MRN-style identifier may still be an option to identify a reference to a route, and that such MRN would not dictate the format of route information being referenced.

Raphael, via meeting chat, commented that if route files are always to be included alongside S-129 datasets in exchange sets, then a support file reference would link route information to the S-129 datasets.

The Chair queried who the best S-421 point of contact would be for ongoing contact and collaboration. Yong mentioned Kwangil Lee, as S-421 project lead, would be the best point of contact, along with Hannu Peiponen (IEC/Furuno).

3.5 Technical Service Specification

The Chair recalled discussions from the previous S-129 PT meeting (Singapore, November 17th, 2023), during which the S-129 PT agreed that an S-129 TSS would need to become available by 2026. While the PT's primary focus in the next several months was the delivery of S-129 Product Specification Edition 2.0.0, it was important for the PT to stay on top of the S-129 TSS development.

Yong sought clarification with the Chair if the TSS was intended to be produced as an annex to the S-129 PS, or as a separate document. The Chair replied that the intention was to produce a separate document, in accordance with IALA Guideline (G1128).

Julius elaborated that the TSS could be a complex document, comprising topics such as the behaviour of service, methodology of data exchange, required interfaces, and technologies to adopt for the service. Julius also mentioned that IALA is currently developing TSS for S-124, S-125, and S-2xx products. IALA was also working on the S-421 TSS, which may have relevance and similarities to the S-129 TSS. Thus, it could be beneficial for IHO to seek support of IALA, particularly the IALA Digital Technologies Committee (DTEC), in the production of TSS of other S-1xx products. Alternatively, the Chair's idea of a "S-129 TSS subgroup" within the S-129 PT could also be a reasonable approach to S-129 TSS production.

The Chair asked Julius if there were progress with the TSS for S-1xx products other than S-124 and S-125. Julius replied that, in his knowledge, S-124 and S-125 were the only products in the IHO domain, for which TSS were in development. For products such as S-101, which are not exchanged in real-time, TSS are not required. However, in the wake of real-time S-1xx services, which require technical solutions different to that of ENC distribution, TSS were needed for a subset of S-1xx products.

The Chair then asked which groups were specifically involved, and how IHO was currently collaborating with IALA, in the TSS development for S-124. Julius explained that an independent working group, the Digital Incubator, manages the development of the S-124 TSS using guidelines such as G1128 and IEC SECOM. The Digital Incubator is advised by IALA and provides updates to IHO's World-Wide Navigational Warning Service Subcommittee (WWNWS).

Yong advised that, while IHO NIPWG oversees general collaboration with IALA, there is currently no specific collaboration between IHO and IALA regarding TSS development. Yong recommended that the S-129 PT seek S-100 WG's direction on how to approach the S-129 TSS development.

<p>Action 10-05 – Chair to enquire S-100 Working Group on direction for developing the Technical Service Specification.</p>
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Hendrik Goehmann (SevenCs) enquired how validation checks would be applied to real-time data such as S-129 before the data is provided to end user systems.

Julius responded that, while there is no “official” answer to this, the responsibility of performing validation checks is likely to shift from VARs or RENCs to data producers. As an example, validation checks for text-based navigational warnings under S-53 are currently in the responsibility of national authorities, who produce S-53. However, as S-124 replaces the text-based navigational warnings, the corresponding validation checks will subsequently differ, thereby necessitating the validation checks to be performed by S-124 data producers instead.

3.6 Other Business – New Concepts Submitted in IHO Geospatial Information Registry

The Vice-Chair presented to the S-129 PT the recent new concepts submitted in the IHO Geospatial Information Registry for the approval of the Domain Control Body, of which the Vice-Chair is a member. The concept of interest for the S-129 PT was “Speed Uncertainty”. The Vice-Chair sought Raphael’s clarification on whether this concept warranted further consideration by the S-129 PT. Raphael explained that the “Speed Uncertainty” concept was more pertinent to S-111 Surface Currents, rather than to S-129. The Vice-Chair proposed to accept the submitted concepts in the IHO Geospatial Information Registry.

3.7 Other Business – S-129 Project Team SharePoint Page

The Vice-Chair provided the meeting participants with an overview of the S-129 PT SharePoint page, which had been set up to share key documents amongst PT members. The Vice-Chair sought the meeting participants’ opinions on if the SharePoint page is now superseded by the S-129 Product Specification GitHub repository, or if it should be retained to share and maintain information that underpin the S-129 PT’s work.

Yong asked the Vice-Chair if access to the SharePoint page was restricted to S-129 PT members only, or also open to other individuals. The Vice-Chair explained that other people could also access the SharePoint page. As the page was controlled from within AMSA environment, granting user access had to be overseen by the Vice-Chair and AMSA.

Yong expressed the thought that the GitHub repository and other IHO resources were publicly available, and hence more easily accessible by implementers, thereby providing a suitable platform for developing and implementing S-129.

The Chair agreed that the GitHub repository would be suited for S-129 development and version control, while the SharePoint page could still be useful as a tool to share information such as IHO Geospatial Information Registry concepts. The Vice-Chair commented that, while the SharePoint page had potential to be constructed into a more useful platform for information sharing, the usefulness depended on S-129 PT members providing feedback on what information should be incorporated into, and communicated through, the SharePoint page.

Raphael added that it is currently difficult to harmonise the submission, communication, and approval of new concepts in the IHO Geospatial Information Registry between different groups. This was currently a gap in the concept register process and could potentially be improved by managing new concepts through GitHub.

The Chair suggested retaining the S-129 Project Team SharePoint page for the time being, while removing from the page any information or data superseded by the S-129 Product Specification GitHub repository.

Action 10-06 – Chair and Vice-Chair to review S-129 SharePoint page content and remove superseded information/data

Raphael reiterated that there currently is no centralised location for managing IHO GI Registry concepts, with each group or team adopting its own method. Thus, processes needed to be developed to effectively promulgate new concepts to various groups. For example, a process could be implemented whereby the submitting organisation communicates the new concept proposals to other stakeholder groups for discussion or feedback, prior to submitting to the IHO GI Registry.

The Vice-Chair proposed that the Chair and Vice-Chair discuss ways to streamline the management of new IHO GI Registry concepts with Jeff Wootten (IHO).

Action 10-07 – Chair and Vice-Chair to discuss with Jeff Wootten on ways to streamline the management of new IHO GI Registry concepts

3.7 Review of Timeline

The Chair presented to meeting participants the latest timeline for S-129 Edition 2.0.0 (as shown in Annex D). The Chair particularly highlighted the following work currently in progress:

- S-129 Portrayal Catalogue changes (reliant on review by NCWG)
- Test dataset production and collaboration with S-164

No comments were made with regards to the timeline.

3.8 Next Meetings

The Chair proposed a tentative VTC meeting date of March 21st, focused on discussing S-129 Validation Checks. This tentative date was subject to change, pending TSM10 (March 12th-15th) outcomes becoming available.

The Chair also tentatively proposed the subsequent S-129 PT meeting to be held on March 28th, with a view to propose more definite dates during March.

Action PT10-08 – Chair to propose dates for next S-129 PT VTC meetings

List of Participants:

Name	Organisation
Jason Rhee – Chair	OMC International
Lindsay Perryman – Vice Chair	AMSA
Alison Contreras	UKHO
Hendrik Goehmann	SevenCs
Hoyeon Cho	KMOU
Hyoseung (Kevin) Kim	KMOU
Ivan Guimaraes	Diretoria de Hidrografia e Navegação
Julius Moeller	AMSA
Lance Round	WR Systems
Mikan Stamenkovich	NIWC
Raphael Malyankar	Portolan Sciences
Stefan Engström	Traficom
Yong Baek	IHO

DRAFT

Draft Agenda for the S-129 Project Team Meeting No. 10 (29 February 2024)

Venue:

VTC (via GoToMeeting)

Time:February 29th: 1130 – 1330 UTC(GoToMeeting link: <https://global.gotomeeting.com/join/863250605>)**Chair:** Jason Rhee (OMC International)**Vice-Chair:** Lindsay Perryman (AMSA)

Friday November 17 th (0900 – 1700 SGT)		
1130 – 1200	Session 1 <ul style="list-style-type: none"> • Welcome and introductions • Review of meeting agenda • Review of previous action items 	(All) (Chair) (Chair)
1200 – 1230	Session 2 S-129 Edition 1.2.0 <ul style="list-style-type: none"> • PC changes - UKCM area • PS corrections/clarifications 	(Chair)
1230 – 1235	Break	
1235 – 1315	S-100 Edition 5.2.0 Changes S-421 discussions Technical Service Specification	(All) (All) (All)
1315 – 1330	Session 3 Other business New action items Review of timeline Proposed meetings: <ul style="list-style-type: none"> • Validation Checks – propose Marh 21st (following S-100 TSM10) • PT meeting (VTC) – propose March 28th 	(All) (All) (All) (All)

Project team members are requested to provide comments or change proposals for any of the agenda items to the PT Chair by no later than 28th February 2024.

PT Chair: Jason Rhee - j.rhee@omcinternational.com

Annex C

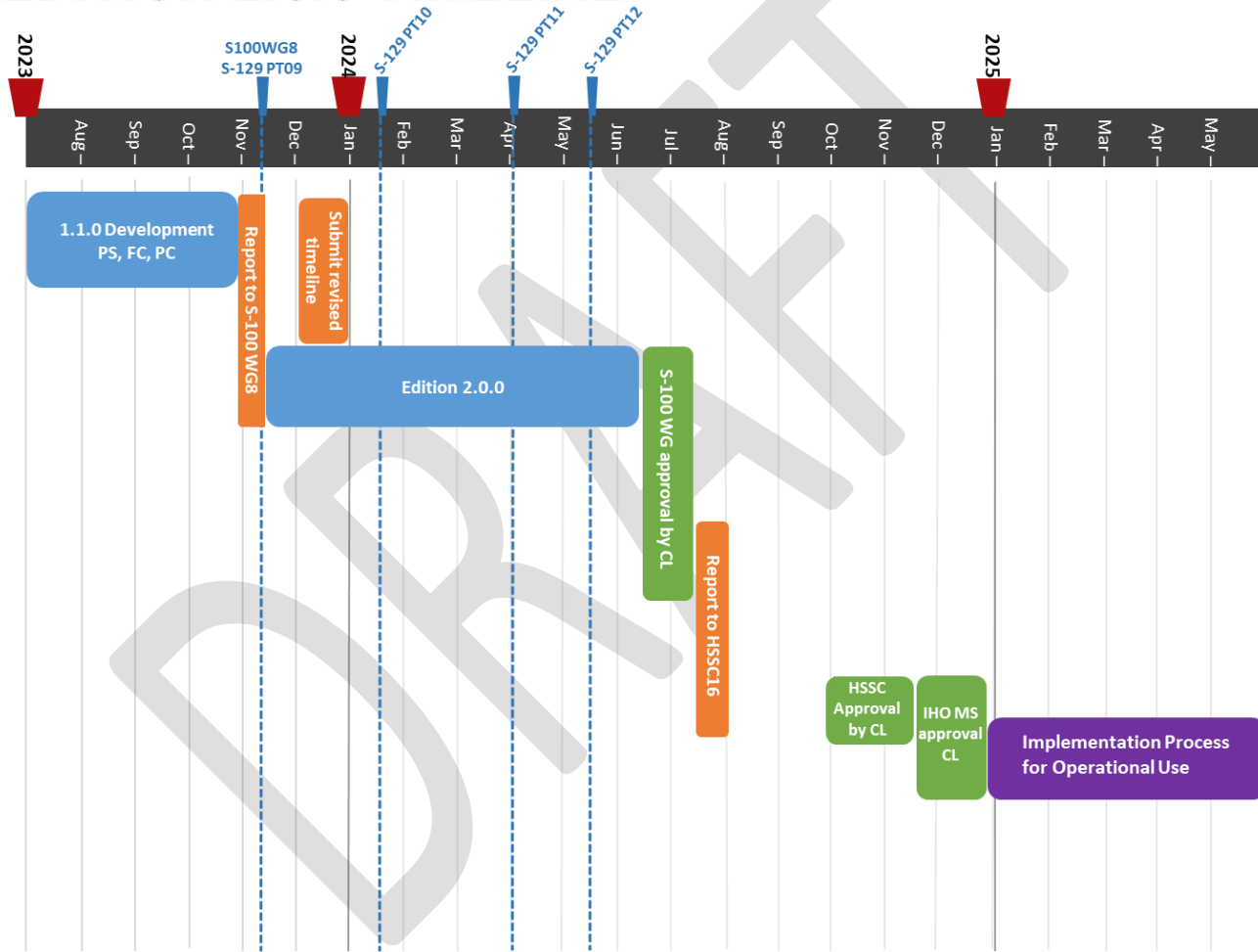
Previous Open Action Items from 9th UKCM Project Team Meeting

Action	Description	Assignee	Status
PT8-01	Obtain feedback from Jonathan (IIC Technologies) regarding suitable S-164 test areas for S-129	Jason R	Superseded
PT8-02	Design and propose UKCM area boundary portrayal (i.e. symbolised magenta line with "UKC" text label)	Jason R	Superseded
PT8-03	Obtain feedback from Mikko (NCWG) and Izzy (KHOA) regarding portrayal of: <ul style="list-style-type: none"> • UKC non-navigable area • UKC almost non-navigable area • UKCM area boundary 	Jason R	In Progress
PT8-04	Work on or assign compiling of test dataset screenplay	Jason R, Hannu P	Superseded
PT8-05	Discuss Exchange Set preparation with Jonathan Pritchard (IIC Technologies)	Jason R	Superseded
PT8-06	Update S-129 Product Specification to include <i>DataCoverage</i> feature	S-129 PT	Closed
PT8-07	Update S-129 Feature Catalogue, Portrayal Catalogue, and XML schema to include <i>DataCoverage</i> feature	S-129 PT	Closed
PT8-08	Produce test datasets based on S-129 Edition 1.1.0	Jason R, Chris H	In Progress
PT8-10	Provide 1.1.0 FC, PC, TDS to KRISO & NIWC for testing on viewer software	S-129 PT / Jason R	Outstanding
PT8-11	Identify and incorporate any necessary updates in S-129 Production Specification, pertaining to S-421	Jason R, Hannu P	Outstanding
PT8-12	Provide S-129 SharePoint page access to PT members requesting access	Jason R, Lindsay P	Outstanding
PT9-01	Remove centre-symbol from draft "UKC analysis area"	Jason R / KMOU	Closed
PT9-02	Update "UKC analysis area" line style text to "UKCM"	Jason R / KMOU	In Progress
PT9-03	Set "UKC analysis area" transparency at 50% in S-129 Portrayal Catalogue	Jason R / KMOU	In Progress
PT9-04	Update description for <i>UnderKeelClearancePlan</i> 's spatial attribute in S-129 Product Specification	Jason R	Outstanding
PT9-05	Amend PC - "no-go" and "almost no-go" areas as solid fill with 50% transparency	KMOU	In Progress
PT9-06	" <i>dataCoverage</i> " metadata to be made mandatory (if not already)	Jason R	Closed
PT9-07	Update remarks against " <i>sourceRouteName</i> " and " <i>sourceRouteVersion</i> " attributes as per above in S-129 PS	Jason R, Lindsay P	Outstanding
PT9-08	Review Edition 5.2.0 redlines when available, and analyse impact on S-129	Jason R / S-129 PT	In Progress
PT9-09	Check multiplicity of " <i>temporalExtent</i> " and " <i>editionNumber</i> " metadata in S-129 PS, and make mandatory (if not already)	Jason R	Outstanding

PT9-10	S-98 Annex C 21.3 to be checked for any description of cancellation through same dataset filenames	Jason R	In Progress
PT9-11	Update S-129 PS Chapter 18 with 20MB data size limit	Jason R, Lindsay P	Outstanding
PT9-12	Schedule VTC for Validation Check discussions	Jason R	Outstanding
PT9-13	Submit revised timeline for S-129 Ed. 2.0.0 to S100WG by December	Jason R	Closed
PT9-14	Propose date for next S-129 PT meeting (VTC)	Jason R	Closed

DRAFT

EDITION 2.0.0 TIMELINE



Annex E

10th S-129 UKCM Project Team Meeting - List of Action Items:

Action	Description	Assignee
PT10-01	Provide S-164 subgroup with S-129 test dataset scenarios and accompanying mock-up images	Jason R / S-129 PT
PT10-02	Seek S-100 WG guidance on S-100 Edition 5.2.0 changes that could impact S-129	Jason R
PT10-03	Add S-129 Edition 1.1.0 schema to schema server	Raphael M
PT10-04	Follow TSM10 outcomes with regards to dataset cancellation, and amend S-129 Product Specification as necessary	Jason R
PT10-05	Chair to enquire S-100 Working Group on direction for developing the Technical Service Specification	Jason R
PT10-06	Review S-129 SharePoint page content and remove superseded information/data	Jason R / Lindsay P
PT10-07	Discuss with Jeff Wootten on ways to streamline the management of new IHO GI Registry concepts	Jason R / Lindsay P
PT10-08	Propose dates for next S-129 PT VTC meetings	Jason R