**3rd S-100 Working Group (S-100WG) Meeting**

**Actions***(30-1-2020)*

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| **No.** | **Item** | **Action** | **Who** | **Status** |
| 01 | 3.2 | S-100WG2 Action 20: Liaise with OGC regarding RDF and the Semantic Web. | JP | ClosePassive |
| **02** | **3.2** | **S-100WG2 Action 24: Develop guidelines for the use of Codelist type attributes for inclusion in the IHO GI Registry proposal guidelines; and consider additional guidance for the S-100 document.** | **JW** | **Ongoing****Still to be done.** |
| **03** | **3.2** | **S-100WG2 Action 25: Conduct a review of S-99 and produce a new edition based on the accrued practical experience with the Registry and related decisions made at S-100WG2.** | **JW** | **Ongoing****In progress.**  |
| 04 | 3.2 | S-100WG2 Action 26: Contact S-100WG Project Team leads to determine who will need access to the FCB. | Chair | Closed |
| 05 | 3.2 | S-100WG2 Action 30: Establish a new online resource for making available and maintaining all S-100 based test resources including Test Data Sets and Catalogue files (including all historical versions). | Vice Chair | Completed(Registry 3.0) |
| 06 | 3.2 | S-100WG2 Action 32: Complete the Data Protection documentation for inclusion in S-100. (Finalise the specification – include guidance for implementers, and consider third part users. Provide further guidance on the use of the serial.txt and products.txt – taking into account the IMO requirement). | JP (lead) | Completed(S-100ed4) |
| 07 | 3.2 | S-100WG2 Action 35: Draft a new part for S-100 Lua Scripting; to support the development of Alarms and Indications, interoperability, and other script based extensions to the main functionality described in S-100. | SPAWAR | Completed(S-100ed4) |
| 08 | 3.2 | S-100WG2 Action 36: Define the process of managing roles and feature associations to be used during the creation of a Feature Catalogue, and produce guidance on this process - to be included in S-99. | KHOAJW | Completed(See Paper 4-6.11) |
| 09 | 3.2 | S-100WG2 Action 37: Include functionality for managing the creation of the roles and feature associations to be included in a Feature Catalogue in the next iteration of the S-100 FCB. | KHOA / IHO Sec. | Completed(FCB 2.0.0See Paper 6.11) |
| **10** | **3.2** | **S-100WG2 Action 38: Include proposed test cases for the initial S-100 conversion tool in the test case document.** | **Chair** | **Ongoing.****Ask Chair + KHOA** |
| 11 | 3.2 | S-100WG2 Action 41: Draft the necessary text to make provision for the generic (S-100 conformant) display of RADAR overlay information. This should include the addition of a RADAR\_OVERLAY portrayal context parameter to the S-101 Portrayal Catalogue. (The portrayal rules will have to be modified accordingly). | SPAWAR | Completed |
| **12** | **3.2** | **S-100WG2 Action 42: When building the next iteration of the Portrayal Catalogue, take into account the need for a context parameter to handle over / under radar.** | **SPAWAR / KHOA** | **Ongoing****Ask KHOA** |
| 13 | 3.2 | S-100WG2 Action 47: NATO GMWG to be invited to submit their proposals (A, B and C) to the Register manager. | JW | ClosedOvertaken by events |
| **14** | **3.2** | **S-100WG2 Action 50: Submit a paper to the DQWG to discuss the definition of the enumerated values for attribute Quality of Horizontal Measurement.** | **CMo** | **Ongoing****Will be reported at S-101PT****Report provided by Christian ??? Ask DQWG next week.** |
| 15 | 4.1 | Remove arcByCenterPoint and circleByCenterPoint from the list of geometric primitives in model of the Feature Catalogue. Also remove from the Feature Catalogue Builder. Change UML diagram as well as to the table 5-A-20. | JW / KHOA | Completed |
| 16 | 4.2.1 | Include the metadata redline document, provided with proposal 4.2.1, into S-100 Edition 4.0.0 | JW | Completed |
| **17** | **4.2.1** | **Rework the digital signature proposal based on the discussion of mandatory status of digital signatures as implemented at the S-100 and PS levels** | **EM** | ***For S-100 Ed. 5******Proposal for next meeting******??? – Ask Robert Sandvic and Evind*** |
| 18 | 4.2.2 | Further develop, and resubmit the proposal to add an integer type attribute *Number* to S100\_ProductSpecification. | EK, HB, DG, EM | Completed |
| 19 | 4.2.2 | Add final agreed new attribute *Number* to S100\_ProductSpecification at Appendix 4a-D (UML and corresponding table). | JW | Completed |
| 20 | 4.2.3 | Amend *S100\_SupportFileDiscoveryMetadata:otherDataType* and *S100\_SupportFileDiscoveryMetadata:dataTypeDescription* descriptions as proposed in paper 4.2.3. | JW | Completed |
| 21 | 4.2.4 | Concerning metadata proposals (paper 4.2.4 items 2,3,4,5,6,8), an updated redline copy is to be forward to TSSO for inclusion in S-100 Edition 4. (EM, JW). | EM, JW | Completed |
| 22 | 4.2.5 | Apply amended proposal as presented for *S100­\_DataFormat* for S-100 Edition 4.0.0.  | JW | Completed |
| **23** | **4.2.5** | **Further develop the proposal for the values of *S100­\_DataFormat*, also taking into consideration the inclusion of S-100 compliance levels, for a more consolidated proposal for S-100 Edition 5.** | **EM, HP, HB, DG** | ***Ongoing For S-100 Ed. 5****See compliance level paper**Still ongoing – should be a paper for S-100WG5 meeting* |
| 24 | 4.2.6 | Prepare redline to agree with the changes to S-100 Part 4a proposed in paper 4.2.6; and incorporate in S-100 Edition 4.0.0. | EM, JW | Completed |
| 25 | 4.3 | Include extra guidance on the interpolation method for bSline (for projection onto a spheroid). | EM | Completed |
| 26 | 4.3 | Include text to indicate that bSline should not be used for depth curves (or any other linear navigationally significant features). | EM | Completed |
| **27** | **4.3** | **Request the DQWG to check quality aspect related to the bSpline issue.** | **Chair** | **Ongoing****??? – Ask Julia** |
| **28** | **4.3** | **Draft new guidance on the interpolation of the spatial on the spheroid for S-100 Part 7.** | **HB** | ***For S-100 Ed. 5 for next TSM meeting******Check TSM7 papers***  |
| 29 | 4.4 | GML Clarifications to be incorporated in the Part 10b redline; and incorporated in S-100 Edition 4.0.0. | EM, JW | Completed |
| 30 | 4.5.1 | Prepare new S-100 Part 9a (Lua Portrayal) redline; and incorporate in S-100 Edition 4.0.0. | DG, JW | Completed |
| 31 | 4.5.2 | Prepare new S-100 Part 13 (Scripting) redline; and incorporate in S-100 Edition 4.0.0. | DG, JW | Completed |
| **32** | **4.5.2** | **SPAWAR to investigate how to implement a catalogue for ECDIS alerts and indications (see old action)** | **SPAWAR, HB, HP** |  *For S-100 Ed. 5 for next TSM**See agenda item ???* |
| 33 | 4.6 | Complete development and prepare redline for new S-100 Part 15 (Data Protection), including holding a Data Protection Workshop in conjunction with S-101PT3 meeting (June 2018). | RS, HB, HP, AP | Completed |
| 34 | 4.6 | Incorporate new S-100 Part 15 (Data Protection) redline in S-100 Edition 4.0.0. | JW | Completed |
| 35 | 4.7 | Prepare new S-100 Part 14 (Online Data Exchange) redline; and incorporate in S-100 Edition 4.0.0. | EM, JW | Completed |
| 36 | 4.8 | Apply proposal as presented for attribute *featureUseType* for S-100 Edition 4.0.0.  | JW | Completed |
| 37 | 4.9 | Apply proposal as presented for data type *Time*, as prepared at S-100WG3 (refer Minutes Annex E) for S-100 Edition 4.0.0.  | JW | Completed |
| 38 | 4.10 | Include updated Part 10c (HDF5 Data Format) as presented at S-100WG3 in S-100 Edition 4.0.0. | EM, JW | Completed |
| **39** | **4.11** | **Continue to update the Registry model for the Concept register (and other extensions) – for possible review at the next TSM.** | **KHOA, JW** |  ***For S-100 Ed. 5*** *JW/YB to prepare paper for next TSM**Discussed at TSM – further investigation required on full implementation of beta Registry (question of management of enumeration values – for discussion at next TSM).* |
| 40 | 5.1 | Report to HSSC the revised publication timeline for S-98. | Chair | Completed |
| **41** | **5.2** | **Add the development of the Interoperability Catalogue Builder to the S-100WG Work Plan.** | **Chair** | **Ongoing – will complete for HSSC****???**  |
| 42 | 6.2.1 | Invite appropriate Working Groups and Project Teams to appoint members to participate in the work of the GI Registry Project Team; and to participate in the Registry Workshop to be held in conjunction with S-100WG4. | JW | Closed |
| 43 | 6.2.3 | Inform HSSC10 meeting, about the activity to develop the Registry Guideline document (Annex A to S-99) as part of the S-100 report to the HSSC. | Chair | Completed |
| 44 | 6.4 | Include guidance on file naming conventions (based on paper 6.4) in the PS Guide book, taking into account the comments made during the meeting. | Chair | Completed |
| 45 | 6.4 | Amend S-101 Product Specification Main document to reflect the recommendations in the paper and the decisions of the S-100WG. | JW | Completed |
| 46 | 6.6 | Develop a generic set of validation tests that can be used as the basis in the development of all S-100 based Product Specifications. | BC (lead), HB, JLP, TR, SS, JW | Completed(See paper 4-4.5) |
| 47 | 6.8 | Invite IEHG to harmonise their portrayal (colour tokens, style sheets and IE specific symbols) with those in the new Registry. | DLD | Completed /Ongoing |
| **48** | **6.8** | Include portrayal Colour Style Sheets (CSSs) in the Registry and include explanatory text in S-99. | KHOA, JW | Completed (KHOA)/ **Ongoing (JW)**  |
| 49 | 6.9.2 | Submit paper 6.9.2 (Methodology for the display of quality information) to the S-101 PT meeting (June 2018) and the DQWG meeting (January 2019). | DQWG Chair | Completed |
| 50 | 6.10 | Submit paper 6.10 to the S-101PT (June) meeting for further consideration. | SO | Completed |
| 51 | 6.10 | Investigate the extent of large numbers of data coverage’s within HOs ENCs – to report back to the June S-101PT3 meeting. | ICENC, PRIMAR | Completed |
| 52 | 6.10 | Enquire whether the KHOA S-1xx datasets can be made available for testing. | KHOA | Closed |
| 53 | 7.2 | S-100WG to review and comment on the first edition of the S-121 standard and to feedback comments in time for the documents to be updated prior to HSSC submission in May 2018. | All | Overtaken by events. |
| 54 | 7.2 | Request a MLB domain for Maritime boundaries at the HSSC10 meeting. | Chair | Closed |
| 55 | 7.3 | Request a UKCPT domain for Under Keel Clearance Management at the HSSC10 meeting. | Chair | Completed |
| 56 | 7.4 | Change the S-100 revision timeline for new editions to every 2 years | Chair | Completed |
| **57** | **8.3** | **Change the catalogue filename example for S-100 Edition 4 (S-100 Part 4a, Appendix 4a-D – exchangeCatalogueName).** | **Chair** | **Ongoing****???** |
| **58** | **8.3** | **Send email to all WG PT developers to inform them that catalogue file will be called “catalogue.xml”.** | **Chair** | **Ongoing****??? – was this discussed at TSM** |
| **59** | **8.3** | **Include content about product catalogue structure in the guideline document.** | **Chair** | **Ongoing****???** |
| 60 | 8.5 | Provide proposals on S-100 related recommendations for inclusion in S-100 Edition 4.0.0 redline. | SPAWAR | Complete |
| 61 | 9.3.3 | Examine whether the draft checklist developed by IEC can be included in the S-100 Testbed documentation. | Chair | Completed (paper 4-8.1) |

**S-100WG4 – Aalborg, Denmark (27 Feb -1 Mar 2019)**

**Actions**

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| **No.** | **Item** | **Action** | **Who** | **Status** |
| 1 | 4.2 | Investigate how best to structure exchange catalogues for the distributing different Product Specification datasets, (as part of an exchange set) for TSM7. Also include the schemas in the Github site on the Registry. | PRIMAR, EK, IC-ENC, HP, HB, CHS, NOAA, Brazil, JW | Ongoing ??? |
| 2 | 4.11 | Based on KHOA's tests on the S-100 exchange set model, provide recommendations on improving the model. For consideration at the next S-100WG meeting. | KHOA, PRIMAR, NOAA, IIC, Teledyne CARIS | ??? |
| 3 | 4.12 | Noting the comments on the HDF5 encoding (paper 5.12), develop a revised proposal that includes guidance on the use of file families in S-100 Part 10c – i.e. under which circumstances their use should be allowed. For TSM7. | RM | Not done – RM yet to provide revised proposals.  |
| 4 | 4.13 | Circulate the minor clarifications in paper 4.13, (proposals 3 to 35), to the Working Group via S-100WG letter for approval. | Chair | Minor clarifications applied to draft edition 5. Chair circulated for comment (?) – no feedback provided – assumed that item is completed. |
| 5 | 4.14 | Noting the discussion on HDF5, request additional information from the Surface Current PT on their requirements, and resubmit the proposal if required. | RM | ??? |
| 6 | 4.14 | Provide the clarifications presented in paper 4.14 that were accepted by the meeting, to the Secretariat (TSSO) as a separate document, for inclusion in the document redline. | RM | Completed |
| 7 | 5.1 | Include the comments (agreed at S-100WG4) into the S-98 document. When completed, submit to document to HSSC11 as Edition 1.0.0 for approval. | Chair | Doc submitted under HSSC11-05.1A See HSSC action 11/18 S-100WG to pursue the development of Ed. 1.0.0 of S-98 as part of the S-100 Implementation Strategy (see Actions HSSC11/10 above) with the aim to submit Ed. 1.0.0 for endorsement in 2020/2021 |
| 8 | 5.1 | Investigate the description of pick reports in S-98. | EM, HA, HB, RF | ??? |
| 9 | 6.1 | Noting the comments on Technical Readiness levels paper, submit a revised paper to HSSC11, recommending that its content be included in S-97, and proposing that the S-100WG should develop a compliance scheme. | Chair | Completed – see decision and action HSSC11/26 |
| 10 | 6.2 | Submit the updated S-97 document to HSSC11 for consideration. Recommend to HSSC that it be approved as Edition 1.0.0. for testing. | Chair | Action completed – document still to be published – see decision HSSC11/17 |
| 11 | 6.2 | Noting the agreement of the meeting on the withdrawal of the only technical comment that was submitted under paper 6.2, include all the editorial comments into the S-97 document. | JW | Completed |
| 12 | 6.4 | Provide all comments (by March 22) received on the MRN concept (paper 6.4) to EM and (in collaboration with the IHO Secretariat), draft a joint guideline document, taking into account the two documents already under development by IALA. | EM, DL, JW | ??? |
| 13 | 6.5 | Noting the issues raised in paper 6.5 on ENC distribution protocols, the S-100 WG Chair is to propose to HSSC11, that all WGs should monitor their Product Specification development activities to ensure the they do not inhibit data distribution practices. | Chair | ??? |
| 14 | 6.5 | The proposal to create a new ENC distribution protocol to be presented to the ENCWG and S-101PT. | China (MSA) | Completed |
| 15 | 6.6 | Submit the report on the status of S-57 to S-101 conversion to S-101PT and ENCWG for consideration and submit to HSSC11 for information. | Chair | Completed ??? |
| 16 | 6.7 | Draft a proposals on S-100 compliance levels (based on paper 6.7) for inclusion in S-100 Ed 5. To be presented to the TSM7. | HP, DG, EM | Nothing submitted to TSM7 - ??? |
| 17 | 7.1 | Submit the S-102 Edition 2.0.0 to HSSC11 for endorsement. | Chair | Completed |
| 18 | 7.2 | Circulate the latest S-121 PS documents and invite comments from the S100WG (20th June). | Chair | Completed |
| 19 | 7.3 | Submit the S-129 Edition 1.0.0 Product Specification to HSSC11 for approval. | Chair | Completed |
| 20 | 8.2 | Develop a proposal to address the inconsistencies between the portrayal catalogue schema (Part 9-A-5) and the S-100 UML diagram (Figure 9-20 and table 9-13.3.1) with regard to the name for Display Planes - for consideration at TSM7. | SPARWAR | Ongoing |
| 21 | 8.2 | SPAWAR to provide a C++ reference implementation of an S-100 Part 9a/Part 13 interpreter. | SPAWAR | ??? |
| 22 | 8.2 | Noting the typo issues highlighted in paper 8.2, propose any other portrayal schema items identified - for consideration at TSM7. | SPAWAR | ??? |
| 23 | 8.2 | Prepare change proposal forms for items relating to “endOffset” – for discussion at TSM7 SPAWAR. | SPAWAR | ??? |
| 24 | 8.2 | Prepare paper for Symbol / Viewing Group dependencies for consideration at TSM7. | SPAWAR | *???* |
| 25 | 8.2 | Provide guidance on the use of Positioning Centred Symbols - for consideration at TSM7. | All | ??? |
| 26 | 8.2 | Resolve the issues relating to Light Sector Extension and provide recommendations to the S-101PT. | SPAWAR | Ongoing (nothing submitted to TSM ???) |
| 27 | 8.2 | Address, issues identified with S-100 Part 9 Portrayal to ensure that time series data is able to be represented without product specific rules. This should dovetail with implementation of Date Dependent portrayal. For consideration at TSM7. | SPAWAR | ??? |