## S-100 Edition 5.0.0 Change Proposals Log

## Last Updated 05 March 2021

NOTE: X or a red number in the "Clause (S-100 Ed 4.0.0)" column denotes a proposed new clause in S-100 Edition 5.0.0.

S-100 Part	Clause (S-100 Ed 4.0.0)	S-100 WG Reference	Subject	Decision	S-100 Edition 5.0.0	Notes
0	0-1	S-100TSM7- 05.14A S-100WG5-04.09	Refer to comprise fifteen parts instead of twelve.	Approved with amendment	Applied	Amended to state "a set of" parts.
1	1-1	S-100TSM7- 05.14B S-100WG5-04.09	Missing Annex 1. Remove Annex 1 reference or insert annex.	Approved with amendment	Applied	Amended to read Annex A.
1	1-4.5.2 Table 1-2	S-100WG5-04.13	Changes implementing miscellaneous corrections and clarifications.	Approved	Applied	Amended last row.
1	1-4.5.3.4 Table 1-3	S-100WG5-04.13	Changes implementing miscellaneous corrections and clarifications.	Approved	Applied	Replaced "a" and "b" with "lower" and "upper" as required.
2	Entire	S-100WG4-06.3	S-100 infrastructure development.	Approved	Partially Applied	Draft Parts 2a, 2b and 2c in development KHOA and IHO Sec (TSSO).
2a	2a-2	S-100WG5-04.13	Changes implementing miscellaneous corrections and clarifications.	Approved	Applied	Added reference to W3C XML Schema Part 2.
2a	2a-4.2.11	S-100WG5-04.13	Changes implementing miscellaneous corrections and clarifications.	Approved	Applied	Changed description of textPattern attribute.

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2a	2a-A	S-100TSM7- 05.14C S-100WG5-04.09	Align example of complex attribute with sourced Product Specification.	Rejected	Not applied	Is only an example to demonstrate the structure. New paragraph added for approval.
2b	2b-4.2.17	S-100WG4-04.13 S-100TSM7-05.18	Remark required for preview_sRGB and definitions required.	Approved	Applied	Item No. 3 and 4 in reference paper
3	3-5.2; 3-5.3.1; 3-5.3.5	S-100WG4-04.04	Masking	Approved	Applied	
3	3-6.5.3	S-100WG5-04.13	Changes implementing miscellaneous corrections and clarifications.	Approved	Applied	Amended S100_GF_SimpleAttr ibute to S100_GF_ThematicA ttributeType.
4a	4a-5. <del>5</del>	S-100WG4-06.07 S-100WG5-04.16	S-100 compliancy categories.	Approved	Applied	New clause 4a-5.5.
4a	5.6	S-100WG4-04.16	Footnote "i" is missing explanation for Table 4a-4.	Approved	Partially Applied	Placeholder inserted however explanation is required.
4a	Appendix 4A-D	S-100WG4-04.11 S-100WG5-04.09	S-100 Exchange Set model. Complete review.	Approved. Metadata group established to discuss.	In progress	To be discussed by small group. Actions S-100WG4-02 and S-100WG5-4.9.
4a	Appendix 4A-D – Overview 3 <sup>rd</sup> para; Table S-100_ ExchangeCatalogue	S-100WG4-04.02 S-100WG5-04.09	S-1xx Exchange Catalogue file naming – rename to CATALOG.XML	Approved (Metadata group discussion ?)	Applied	To be discussed by small group. Action S-100WG4-01.  NOTE: S-100WG5 record states that this proposal was rejected.

S-100 Part	Clause (S-100 Ed 4.0.0)	S-100 WG Reference	Subject	Decision	S-100 Edition 5.0.0	Notes
4a	Appendix 4A-D – Overview after Figure 4a-D-4	S-100WG5-04.09	Add example and explanation of multiple product exchange set structure.	Approved	Applied	Decision not to include final paragraph of proposed text and example Figure.
4a	4a-D; Table S-100_ ExchangeCatalogue	S-100TSM7-05.12 S-100WG5-04.09	S-1xx Exchange Catalogue file structuring for multiple product distribution.	Approved	Applied	
4a	4a-D; Tables S-100_ ExchangeCatalogue; S-100_ DatasetDiscoveryMetadata	S-100TSM7-05.11	Attributes incorrectly located within the S-100 metadata schema.	Approved	Applied	
4a	4a-D; Tables S-100_ DatasetDiscoveryMetadata; S- 100_ SupportFileDiscoveryMetadata; S-100_ CatalogueMetadata	S-100TSM7- 05.14D S-100WG5-04.09	Decide whether to use filePath or fileLocation (filePath Name and Remarks).	Approved	Applied	
4a	4a-D; Tables S-100_ DatasetDiscoveryMetadata; S- 100_ SupportFileDiscoveryMetadata; S-100_ CatalogueMetadata	S-100WG5-04.09	Change exchange set root directory name from EXCH_ROOT to S100_ROOT.	Approved	Applied	
4a	4a-D; Tables S-100_ DatasetDiscoveryMetadata; S- 100_CatalogueIdentifier	S-100TSM7- 05.14E S-100WG5-04.09	Change attribute date to date time to include date-time variable.	Approved	Applied	
4a	4a-D; Table S- 100_DatasetDiscoveryMetadata	S-100WG4-04.13 S-100TSM7-05.18	Relationship by reference	Rejected	Not applied	Item No. 1 in reference paper
4a	4a-D; Table S- 100_DatasetDiscoveryMetadata	S-100WG5-04.09	Multiplicity of metadataPointOfContact	Approved (Metadata group discussion?)	Applied	NOTE: S-100WG5 record states that this proposal was rejected.

S-100 Part	Clause (S-100 Ed 4.0.0)	S-100 WG Reference	Subject	Decision	S-100 Edition 5.0.0	Notes
4a	4a-D; Table S- 100_DatasetDiscoveryMetadata	S-100WG4-04.13	Clarify defaultLocale and metadataLanguage	??	Not applied	Item No. 5 in reference paper
4a	4a-D; Table S- 100_DataCoverage	S-100WG4-04.13 S-100TSM7-05.18	Add definition.	Approved	Applied	Item No. 6 in reference paper
4a	4a-D; Table S- 100_ProductSpecification	S-100WG4-06.07 S-100WG5-04.16	S-100 compliancy categories.	Approved	Applied	New attribute S100_compliancyCat egory added. New Table S100_compliancyCat egory added.
4a	4a-D; Table S- 100_ProtectionScheme	S-100WG4-04.13 S-100TSM7- 05.14F S-100WG5-04.09	Rename value S63e2.0.0.	Approved	Applied	Item No. 7 in S- 100WG4 reference paper.
4a	4a-D; Table S- 100_SupportFileDiscoveryMetad ata	S-100WG4-04.13 S-100TSM7-05.18	Description of attributes purpose, editionNumber and comment.	Approved	Applied	Item No. 8 in reference paper
4a	4a-D; Table S- 100_SupportFileFormat	S-100WG4-04.13 S-100TSM7-05.18	Add definitions.	Approved	Applied	Item No. 9 in reference paper
4a	4a-D; Table S- 100_CatalogueMetadata	S-100WG5-04.09	Incorrect syntax for fileName.	Approved	Applied	
5	Figure 5-A-1 and Table 5-A-15	S-100WG4-04.13	Listed value format and data format.	Rejected	Not applied	Item No. 2 in reference paper
5	Figure 5-A-1 and Tables 5-A-5 and 5-A-15	S-100WG5-04.06	Linkage between a feature catalogue and specific versions of Registry content.	Approved (?)	Not yet applied	Action requires SevenCs to provide feedback to KHOA as to why this change is not required.

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5	5-A Table 5-A-13	S-100WG5-04.13	Changes implementing miscellaneous corrections and clarifications.	Approved	Applied	Amended S100_FC_AttributeC onstraints to S100_CD_AttributeC onstraints.
8	8-6.2.8	S-100WG4-04.14	New clause to clarify cell structure and sample space compared to grid cell.	Approved	Applied	New clause 8-6.2.8.
8	8-6.3	S-100WG4-04.13 S-100WG5-06.06 S-100TSM7-05.18	Dataset structure.	Approved	Partially Applied	Item No. 11 in reference paper. More work required. On hold for Edition 6.
8	8-7	S-100WG4-04.14	Sub-clause renumbering.	Approved	Applied	
8	8-7.1.4	S-100WG4-04.13 S-100WG5-06.06 S-100TSM7-05.18	Dataset structure.	Approved	To be done	Item No. 12 in reference paper. Raphael to supply. On hold for Edition 6.
8	8-7.1.4	S-100WG4-04.13 S-100TSM7-05.18	Last paragraph – attribute sequencingRule.	Approved	Applied	Item No. 13 in reference paper
8	8-8.3; 8-8.4	S-100WG4-04.14	Sub-clause renumbering.	Approved	Applied	
9	9-7.2	S-100WG5-04.10	Update InterpolationType to match changes to Part 7.	Approved.	Applied	
9	9-7.5	S-100WG5-04.13	Changes implementing miscellaneous corrections and clarifications.	Approved	Applied	Amended 2 <sup>nd</sup> sentence of 2 <sup>nd</sup> paragraph.

S-100 Part	Clause (S-100 Ed 4.0.0)	S-100 WG Reference	Subject	Decision	S-100 Edition 5.0.0	Notes
9	9-7.6 Figure 9-8; 9-7.7.1; 9-7.7.2; 9-7.7.3; 9-7.7.4; 9-7.7.5; 9-7.7.6	S-100WG5-04.10	Modify the XSLT data input schema objects to align with the GFM and allow for spatial quality. Change the spatial objects from abstract to concrete.	Approved.	Applied	New clause 9-7.7.2.
9	9-11.1. <mark>X</mark> ; 9-A-6	S-100WG4-04.12	Pallete item transparency	Approved	Applied	New clause 9-11.1.X
9	9-11.2	S-100TSM7-05.02 S-100WG5-04.05	Changes supporting the addition of Alerts and Indications.	Approved.	Applied	
9	9-11.2.2	S-100TSM7-05.04 S-100WG5-04.11	Addressing capability gaps in the S-100 portrayal model.	Approved.	Applied	
9	9-11.2.2; 9-12.7.3; 9-13.1; 9- 13.2; 9-13.3.1; 9-13.3.25	S-100TSM7-05.02 S-100WG5-04.05	Changes supporting the addition of Alerts and Indications.	Approved.	Applied	
9	9-11.2.5; 9-11.2.6	S-100TSM7-05.04 S-100WG5-04.11	Addressing capability gaps in the S-100 portrayal model.	Approved.	Applied	New clauses 9-11.2.5 and 9-11.2.6.
9	9-11.2.5	S-100TSM7-05.02 S-100WG5-04.05	Changes supporting the addition of Alerts and Indications.	Approved.	Applied	New clause 9-11.2.7.
9	9-11.2.7	S-100WG4-04.13 S-100TSM7-05.18	Add attribute suppression.	Approved	Applied	Item No. 17 in reference paper
9	9-12.5.1.6	S-100WG4-04.13 S-100TSM7-05.18	Add attribute clipSymbols.	Approved	Applied	Item No. 18 in reference paper
9	9-12.6.3; 9-12.6.3.5	S-100WG5-04.10	Allow TextPoint to specify location of point relative to curve.	Approved	Applied	

S-100 Part	Clause (S-100 Ed 4.0.0)	S-100 WG Reference	Subject	Decision	S-100 Edition 5.0.0	Notes
9	9-12.6.3	S-100WG5-04.13	Changes implementing miscellaneous corrections and clarifications.	Approved	Applied	
9	9-12.7.3	S-100TSM7-05.02 S-100WG5-04.05	Changes supporting the addition of Alerts and Indications.	Approved.	Applied	
9	9-12.7.4	S-100TSM7-05.02 S-100WG5-04.05	Changes supporting the addition of Alerts and Indications.	Approved.	To be done	Figure 9-19 to be updated. Raphael to supply.
9	9-12.7.4.3	S-100TSM7- 05.03B S-100WG5-04.10	Describe colour interpolation method.	??	Not applied	To be followed up, noting that this proposal was approved according to the S-100WG5 Record
9	9-13.2	S-100WG4-04.09	CSS files in more appropriate Portrayal Catalogue folder	Approved	Applied	
9	9-13.3; 9-A-5; 9-A-7-1.6	S-100WG4-04.06	Portrayal Catalogue CSS files	Approved	Applied	
9	9-13.3	S-100TSM7-05.02 S-100WG5-04.05	Changes supporting the addition of Alerts and Indications.	Approved.	Applied	
9	9-13.3; 9-13.3.24	S-100WG5-04.13	Changes implementing miscellaneous corrections and clarifications.	Approved	Partially Applied	css added to FileFormat. Figure 9- 20 to be updated. Raphael to supply.
9	9-13.3	S-100WG4-04.13 S-100TSM7-05.18	Add table for class Fonts.	Approved	Applied	Item No. 19 in reference paper. New clause 9- 13.3.11.

S-100 Part	Clause (S-100 Ed 4.0.0)	S-100 WG Reference	Subject	Decision	S-100 Edition 5.0.0	Notes
9	9-13.3.18	S-100TSM7-05.07 S-100WG5-04.04	Machine readability of Display Plane ordering.	Approved	Applied	
9	9-13.3.20	S-100TSM7-05.08	Validation of portrayal inputs (S100_PR_ContextParamete r).	Approved. Proposal for S- 100WG5.	To be done	
9	9-13.4	S-100TSM7-05.02 S-100WG5-04.05	Changes supporting the addition of Alerts and Indications.	Approved.	Applied	New clause 9-13.4 and associated subclauses.
9	9-A	S-100WG5-04.10	Remove portrayal schemas and samples provided in appendix 9-A.	Approved	Applied	
9	9-A-2	S-100WG5-04.10	Add attribute clipSymbols.	Approved	Not applied	Overtaken by events. See proposal for 9-A above.
9	9-A-3	S-100TSM7-05.04 S-100WG5-04.11	Addressing capability gaps in the S-100 portrayal model.	Approved.	Not applied	Overtaken by events. See proposal for 9-A above.
9	9-A-5	S-100TSM7- 05.03A S-100WG5-04.10	displayPlanes container not correctly implemented.	Approved	Not applied	Overtaken by events. See proposal for 9-A above.
9	9-A-5	S-100TSM7-05.02 S-100WG5-04.05	Changes supporting the addition of Alerts and Indications.	Approved	Not applied	Overtaken by events. See proposal for 9-A above.
9	9-A-6; 9-A-7	S-100WG4-04.07	Colour pattern support for SVG symbols.	Approved	Applied	
9a		S-100TSM7-05.04	Addressing Capability Gaps in the S-100 Portrayal Model.	Approved. Proposal for S- 100WG5.	To be done	

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9a	9a-11.1.1; 9a-11.2.1; 9a-11.2.2; 9a-11.2.2.6; 9a-11.2.2.7	S-100TSM7-05.02 S-100WG5-04.05	Changes supporting the addition of Alerts and Indications.	Approved.	Applied	
9a	9a-11.2.1	S-100TSM7- 05.03C S-100WG5-04.10	Add clipSymbols to SymbolFill instruction.	Approved	Applied	
9a	9a-11.2.1	S-100WG5-04.10	Add AreaInstruction references to Lua implementations.	Approved	Applied	
9a	9a-11.2.2	S-100TSM7- 05.03C S-100WG5-04.10	Remove unused Pen Style command.	Approved	Applied	
9a	9a-11.2.2.2	S-100TSM7- 05.03C S-100WG5-04.10	Add endOffset to LinePlacement command. Adds capability of Part 9 TextLine.	Approved	Applied	
9a	9a-11.2.2; 9a-11.2.2.1	S-100TSM7-05.04 S-100WG5-04.11	Addressing capability gaps in the S-100 portrayal model.	Approved.	Applied	Added commands to Tables 9a-6 and 9a-7.
9a	9a-11.2.2.4	S-100TSM7- 05.03C S-100WG5-04.10	Remove Baseline from TextAlignVertical.	Approved	Applied	
9a	9a-11.2.2.7	S-100TSM7- 05.03B S-100WG5-04.10	Describe colour interpolation method.	Approved	Applied	
9a	9a-11.2.2. <mark>8</mark>	S-100TSM7-05.04 S-100WG5-04.11	Addressing capability gaps in the S-100 portrayal model.	Approved.	Applied	New clause 9a- 11.2.2.8.

S-100 Part	Clause (S-100 Ed 4.0.0)	S-100 WG Reference	Subject	Decision	S-100 Edition 5.0.0	Notes
9a	9a-11.2.2. <mark>8</mark>	S-100TSM7-05.02 S-100WG5-04.05	Changes supporting the addition of Alerts and Indications.	Approved.	Applied	New clause 9a- 11.2.2.9.
9a	9a-14.1.3	S-100WG5-04.10	Change contextParameterName to contextParameterId.	Approved	Applied	
10a	10a-3.2	S-100WG4-04.10	Replace sample Table.	Approved	Applied	Table amended to conform with DSID field.
10a	10a-5.4.2; 10a-5.4.3	S-100WG4-04.10	ISO 8211 data structure codes.	Approved	Applied	
10a	10a-5.11	S-100WG4-04.13 S-100TSM7-05.18	Change clause numbering.	Approved	Applied	Item No. 22 in reference paper.
10a	10a-5.11.4	S-100WG4-04.15	Replace Data Descriptive field value APUI with FAUI to align descriptive field and table.	Approved	Applied	
10a	10a-5.11.6; 10a-8.5. <mark>6</mark>	S-100WG4-04.04	Masking.	Approved	Applied	New clause 10a- 8.5.6.
10c	10c-9.1; 10c-9.2.2; 10c-9.3; 10c- 9.6; 10c-9.7; 10c-9.10; 10c- 9.10.1; 10c-9.11	S-100TSM7-05.17 S-100TSM7-05.18	Potential changes to the S- 100 HDF5 structure to support S-104 and other time series data.	Approved.	Applied	Various changes in text and Tables. New table 10c-19. Refer to redline document for S-100WG5.
10c	10c-9.3	S-100WG4-04.14 S-100WG5-04.22	Clarify use of attribute dataCodingFormat.	Approved	Applied	
10c	10c-9.4 – Table 10c-6; 10c-9.6 – Table 10c-10; 10c-9.7 – Table 10c-12	S-100TSM7-05.06	Inconsistencies and other problems related to the HDF5 encapsulation.	Small group to discuss.	To be done	

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10c	10c-9.4; 10c-10	S-100WG5-04.14	Amendments required for CRS attributes.	Approved	Applied	Table 10c-6 and associated notes amended. Title of clause 10c-10 amended. New clauses 10c-10.5-10.8 added.
10c	10c-9.6; 10c-9.6.1	S-100WG4-04.14 S-100WG5-04.21	Add attribute "Offset of data point in cell" to Table 10c-10 and guidance in new clause.	Approved	Applied	New clause 10c- 9.6.1.
10c	10c-9.7	S-100WG4-04.14 S-100WG5-04.22	Clarify that product specifications may restrict which of domainExtent or boundingBox is used in a data product.	Approved	Applied	Added as new note at end of clause rather than in Tables.
10c	10c-9.7.2	S-100WG4-04.14 S-100WG5-04.22	Amend Figure 10c-9 to show dataCodingFormat as enumeration.	Approved	Not yet done	Figure 10c-9 to be updated. Raphael(?) to supply (October 2021).
10c	10c-10.4	S-100WG4-04.14 S-100WG5-04.22	New sub-clause defining literals for dataCodingFormat.	Approved	Applied	New clause 10c-10.4.
10c	10c-17.5; 10c-18.1; 10c-18.2	S-100WG4-04.12 S-100WG5-04.20	HDF5 file families.	Rejected	Not applied	Revised proposal to be submitted. Action S-100WG4-03.
11	11-4 Table 11-2	S-100WG4-06.07 S-100WG5-04.16	S-100 compliancy categories.	Approved	Applied	New row for compliancyCategory added.
11	11-D	S-100WG5-04.09	Link to template does not work.	Approved	Applied	Placeholder to amend when revised App 11-D is posted.

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13	13-8.1.1. <mark>1</mark>	S-100TSM7- 05.03D S-100WG5-04.10	Add description of CreateAttributeConstraints function.	Approved	Applied	New clause 13- 8.1.1.1.
13	13-8.1.1.6	S-100TSM7- 05.03D S-100WG5-04.10	Use spatial associations instead of direct points for CreateCurve function.	Approved	Applied	
13	13-8.1.1. <mark>11</mark> ; 13-8.1.1. <mark>12</mark> ; 13-8.1.1. <b>13</b> ; 13-8.1.1. <b>14</b>	S-100TSM7- 05.03D S-100WG5-04.10	Add support for S100_GM_SplineCurve / S100_GM_PolynomialSpline.	Approved	Applied	New clauses 13- 8.1.1.11-14.
13	13-8.1.2.2; 13-8.1.2.3; 13-8.1.2.8; 13-8.1.2.9; 13-8.1.2.10	S-100TSM7- 05.03D S-100WG5-04.10	Remove alternative (expanded) syntax for Type Information Creation Functions.	Approved	Applied	
13	13-8.1.2.4; 13-8.1.2.5; 13-8.1.2.6; 13-8.1.2.7	S-100TSM7- 05.03D S-100WG5-04.10	Use codes instead of type definitions for super types and sub types.	Approved	Applied	
13	13-8.1.2.13; 13-8.1.2.14	S-100TSM7- 05.03D S-100WG5-04.10	Use role code instead of role type definition.	Approved	Applied	
13	13-8.1.3.4	S-100TSM7- 05.03D S-100WG5-04.10	Add documentation for TypeSystemChecks function.	Approved	Applied	New clauses 13- 8.1.3.4.
13	13-8.2.2. <mark>12</mark> ; 13-8.2.2. <mark>13</mark> ; 13-8.2.2. <mark>14</mark>	S-100TSM7- 05.03D S-100WG5-04.10	Add missing type definition creation functions.	Approved	Applied	New clauses 13- 8.2.2.12-14.
13	13-8.2.4.1	S-100TSM7- 05.03D S-100WG5-04.10	Update HostDebuggerEntry documentation.	Approved	Applied	

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14	14-8	S-100WG4-04.13 S-100TSM7-05.18	Editorial correction to Figure 14-6.	Approved	Not yet done	Item No. 24 in reference paper. Raphael to supply.
14	14-8.1	S-100WG4-04.13 S-100TSM7-05.18	Missing Table for S100_OC_Parameter.	Approved	Not yet done	Item No. 25 in reference paper. Placeholder inserted at new clause 14- 8.1.4.
14	14-8.1.5	S-100WG4-04.13 S-100TSM7-05.18	Add Class description.	Approved	Applied	Item No. 26 in reference paper.
14	14-8.1.6	S-100WG4-04.13 S-100TSM7-05.18	Add Class description.	Approved	Applied	Item No. 27 in reference paper.
14	14-8.2.1	S-100WG4-04.13 S-100TSM7-05.18	Add Role names, descriptions and remarks.	Approved	Partially applied	Item No. 28 in reference paper. References required for Remarks column.
14	14-8.2.3	S-100WG4-04.13 S-100TSM7-05.18	Amend Class description.	Approved	Applied	Item No. 29 in reference paper.
14	14-A-1	S-100WG4-04.13 S-100TSM7-05.18	Amend figure and caption.	Approved	Partially applied	Item No. 30 and 31 in reference paper. Figure needs to be updated.
15	Various	S-100TSM7-05.15	S-100 Part 15 clarification and improvements.	Approved. Proposals for S- 100WG5	To be referred to S-100WG5.	
15	Various	S-100TSM7-05.16	S-100/S101 Exchange Catalogue Digital Certificate and Signature exchange.	Approved. Proposal for S- 100WG5	To be referred to S-100WG5.	

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15	15-7.3.1	S-100WG4-04.13 S-100TSM7-05.18	Amend user permit character length.	Approved	Applied	Item No. 32 in reference paper.  TBC. Example appears to have 46 characters, not 23 as in proposal.
15	15-7.4.1; 15-7.4.4; 15-7.4.5	S-100WG4-04.13 S-100TSM7-05.18	Amend date/time format.	Needs further discussion	Partially applied	Item No. 33-35 in reference paper. Needs more work (Jonathan?).
-	-	S-100WG4-04.05 S-100WG5-04.15	S-100 Validation Checks.	Address by Sub- Group	In progress	Ongoing.
-	-	S-100TSM7-04.07 S-100WG5-05.01	De-scoping and reorganizing S-98.	Approved. New S- 100 Part to be developed.	In progress	
-	-	S-100TSM7-04.13 S-100WG5-04.05	S-1xx and cancellation strategies.	Approved. New guidance to be developed.	Not yet done	To be discussed by the Exchange Set Gap Correspondence Group.
-	-	S-100WG5-06.07	Gap analysis for S-100 Exchange set model.	Approved. New S- 100 Part to be developed.	In progress	To be discussed by the Exchange Set Gap Correspondence Group.