

S-100 Maintenance - Change Proposal Form

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Change Proposal Type *Select only one option*

1. Clarification 2. Correction 3. Extension
 Y

Location *Identify all change proposal locations*

Note: (new) refers to the accompanying redline Part 5.

S-100 Version No.	Part No.	Section No.	Proposal Summary
1.0.0	5	2	List of differences from ISO 19110 updated to conform to the updated feature catalogue model. "level" -> conformance class to conform to ISO language, see ISO 19106 §2.
	5	4.2.3.5	Text is added indicating what to do if default roles are used.
	5	4.2.4	Text about default roles and example of an association with default roles added
	5-A	Figure 1	Replaced with updated diagram including added classes
	5-A	Figure 1	Multiplicity of S100_FC_Role association ends with S100_FC_InformationAssociation and S100_FC_FeatureAssociation made 0..2 to allow for default roles.
	5-A	Table A.1	Roles namedType , propertyType , featureAssociation replaced with item , conforming to new FC model. Ref. TSMAD22-DIPWG3-03E
		Table A.4 (new)	Documentation of new class S100_FC_Item. Ref. TSMAD22-DIPWG3-03E
		table A.6 (new)	New class S100_FC_ObjectType. Ref. TSMAD22-DIPWG3-03E
		table A.9 (new)	New class S100_FC_InformationAssociation. Ref. TSMAD22-DIPWG3-03E
		table A.9 (new)	language and multiplicity changed for use of default roles and bi-directional navigability
		Table A.10 (new)	Definition of S100_FeatureAssociation updated in new FC model (TSMAD22-DIPWG3-03E) Was numbered A.12 in Edition 1.0.0.
		table A.11 (new)	new class S100_FC_Role (TSMAD22-DIPWG3-03E)
		table A.12 (new)	S100_FC_Attribute now derives from S100_FC_Item (TSMAD22-DIPWG3-03E)

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		A.13 (new)	Attribute quantitySpecification was missing in S100_FC_SimpleAttribute (TSMAD22-DIPWG3-03E)
		A.14 (new)	descriptions updated (TSMAD22-DIPWG3-03E)
		A.15 (new)	TSMAD22-DIPWG3-03E made code a PositiveInteger (was CharacterString)
		A.17 (new)	S100_FC_InformationBinding has new attribute roleType and role "association" (TSMAD22-DIPWG3-03E)
		A.19 (new)	description of "composition" elaborated (TSMAD22-DIPWG3-03E)
		Table A.20 (new)	GM_MultiPoint added in remarks column
		tables A.14, A.18, A.19 (old)	deleted because documentation of S100_CD_AttributeConstraints, S100_CD_FeatureUseType, S100_CD_AttributeData Type deleted, they are documented in Part 2.
		A.7, A.11 (old)	S100_FC_PropertyType, S100_FC_InformationRole, S100_FC_AssociationRole removed from FC model (TSMAD22-DIPWG3-03E)

Change Proposal

Please provide a detailed change proposal.

§ (All): Refer to accompanying redlined Part 5 for details.

Change Proposal Justification

Please provide a suitable explanation for the change and where applicable supporting documentation.

Changes to the GFM of Edition 1.0.0 to add association classes require corresponding changes to the feature catalogue model. Modifications to the feature catalogue model were discussed at TSMAD22 (TSMAD22-DIPWG3-03E). Modifications to the GFM were discussed in TSMAD22-DIPWG3-03D. The UML diagram of the FC model is updated in accordance with TSMAD22-DIPWG3-03E and the documentation (tables A.1 – A.22) updated accordingly. Further changes were made for later revisions to roles in the GFM (see below) and are also incorporated into the UML model.

TSMAD25 discussed making roles optional and using default roles (TSMAD 25 minutes and TSMAD25-4.3.2 "Revisions and Extensions to S-100 Edition 1.0.0"). The changes make role names optional in application schemas and specify default names for suppressed role names. Corresponding changes to the GFM are described in the accompanying paper on roles ("Roles in S-100") and the change proposal for Part 3. The feature catalogue model is updated to make role names optional in the feature catalogue as well by making the lower bound of multiplicity 0 at the S100_FC_Role end of its associations with S100_FC_InformationAssociation and S100_FC_FeatureAssociation. Text is added to clarify that default role names are to be assumed in place of such suppressed role names.

Application schemas in domains other than ENCs need more flexible models of information associations, specifically bi-directional navigability and permitting names at both ends of the association. The feature catalogue model pertaining to information associations is updated to allow both, making it more like feature associations. This change being permissive but not mandatory, product specifications may still constrain their feature catalogues by permitting only unidirectional links and holding role names fixed.