

Title: Part 9 updates describing input XML

S-100 Maintenance - Change Proposal Form

Organisation	NIWC	Date	1/20/2021
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Change Proposal Type (*Select only one option*)

1. Clarification	2. Correction	3. Extension
		X

Location (*Identify all change proposal locations*)

S-100 Version No.	Part No.	Section No.	Proposal Summary
Draft 5.0	9	Throughout	See attached redlines

Change Proposal

The redlines provided update Part 9 to describe how to generate generic input XML for portrayal processing, rather than describing how product specification developers can create product specific input schema.

Change Proposal Justification

The justification for this change was presented as TSM7-5.9 "Issues with the Part 9-7 Data Input Schema", as recommendation 1. Issues noted in the paper include the duplicative nature of a product specific input schema with regard to the feature catalogue, and the inability to update the product specific input schema.

The drawbacks to the current mechanism for specifying portrayal input include:

- * Complicates product development
- * Complicates product maintenance
- * Increases application development time
- * Not machine-readable
- * Requires application updates to support input schema changes driven by feature catalogue changes

The redlines attached implement TSM7-5.9 recommendation 1 by simplifying the data input schema so that only a base / generic schema is used. Part 9 has been updated to describe how to create a DOM for parsing by XSLT portrayal rules. The creation of this DOM is accomplished by leveraging the feature catalogue to describe and constrain features.

What parts of the S-100 Infrastructure will this proposal affect?

- S-100 Feature Concept Dictionary Interface or Database

- S-100 Portrayal Register
- S-100 Feature Catalogue Builder
- S-100 Portrayal Catalogue Builder
- S-100 UML Models
- S-100 GitHub Schemas

Please send completed forms and supporting documentation to the secretary S-100WG.