

Title: S-100 Proposal Form - Appendix 4a-D add example of multiple product exchange set structure

S-100 Maintenance - Change Proposal Form

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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
4.0.0	4a	Appendix 4a-D – Overview	Add example and explanation of multiple product exchange set structure.

Change Proposal

The change proposal suggests adding an example and explanation of a multiple product exchange set structure.

The following text and figure are proposed added after existing Figure 4a-D-4 (page 27):

There are two types of exchange sets, simple product exchange sets and multiple product exchange sets. If only one product type (e.g. S-101) is included, the exchange set is simple type. If more than one product type (e.g. S-101 and S-102) is included, the exchange set is multiple type.

An exchange set can contain S-100 conformant dataset files, support files and catalogue files. It can also contain S57 dataset files.

In any type of S-100 conformant exchange set all S-100 products will be available from a top root directory named S100_ROOT. This will be the only top root directory in exchange sets containing only S-100 products. Together with the ENC_ROOT and INFO directories (used for S57 ENCs) the S100_ROOT directory is one of three top directories in a multiple product exchange set containing both S-57 and S-100 products.

Figure 4a-D-5 demonstrates a multiple product exchange set. When an exchange set contains both S-100 and S-57 data, there are three top level directories, ENC_ROOT, INFO and S100_ROOT. In the S100_ROOT directory there are subdirectories for each specific product type. Further on, each product type has subdirectories for dataset files, support files and catalogues.

If needed, the exchange set can carry catalogues from different versions of the same product specification. The structuring of support files in a separate directory is also demonstrated. The CATALOG.XML file is placed at the top root level with the S100_ROOT directory, together with its signature (CATALOG.SIGN). All other signatures are included in the CATALOG.XML.

```

ENC_ROOT
INFO
S100_ROOT
|----S101
|   |----DATASET_FILES
|   |   |----AR00
|   |   |   |----101AR001234567890
|   |   |   |   |----1
|   |   |   |   |----0
|   |   |   |   |   |----101AR001234567890.000
|   |   |   |   |   |----1
|   |   |   |   |   |   |----101AR001234567890.001
|   |   |   |   |   |   |----2
|   |   |   |   |   |   |   |----101AR001234567890.002
|   |   |   |   |   |   |   |----101AR00ABCDEFGHIJ
|   |   |   |   |   |   |   |   |----1
|   |   |   |   |   |   |   |   |----0
|   |   |   |   |   |   |   |   |   |----101AR00ABCDEFGHIJ.000
|   |   |   |   |   |   |   |   |   |----CL00
|   |   |   |   |   |   |   |   |   |----NO00
|   |   |   |   |   |   |   |   |   |----SUPPORT_FILES
|   |   |   |   |   |   |   |   |   |   |----AR00
|   |   |   |   |   |   |   |   |   |   |   |----101AR00QWERTYUIOP.TXT
|   |   |   |   |   |   |   |   |   |   |   |----101AR00ASDFGHJKLO.TIF
|   |   |   |   |   |   |   |   |   |   |   |----101AR00ZXCVCBNMJKL.HTM
|   |   |   |   |   |   |   |   |   |   |   |----CL00
|   |   |   |   |   |   |   |   |   |   |   |----NO00
|   |   |   |   |   |   |   |   |   |   |   |----CATALOGUES
|   |   |   |   |   |   |   |   |   |   |   |   |----101_1_0_0_FC.XML
|   |   |   |   |   |   |   |   |   |   |   |   |----101_1_5_0_FC.XML
|   |   |   |   |   |   |   |   |   |   |   |   |----101_1_0_0_PC.XML
|   |   |   |   |   |   |   |   |   |   |   |   |----101_1_5_0_PC.XML
|----S102
|   |----DATASET_FILES
|   |   |----AR00
|   |   |   |----102AR001234567890
|   |   |   |   |----1
|   |   |   |   |----0
|   |   |   |   |   |----102AR001234567890.000
|   |   |   |   |   |----102AR00ABCDEFGHIJ
|   |   |   |   |   |----CL00
|   |   |   |   |   |----NO00
|   |   |   |   |   |----CATALOGUES
|   |   |   |   |   |   |----102_2_0_0_FC.XML
|   |   |   |   |   |   |----102_2_0_0_PC.XML
|----S104
|----CATALOG.XML
|----CATALOG.SIGN

```

Figure 4a-D-5 Multiple product exchange set directory structure

Change Proposal Justification

This proposal:
Suggests adding a textual description and example figure of a multiple product exchange set directory structure.

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

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