

In S-100 Part 15 there is currently no UML diagram with the class details for data protection. In S-100 Part 17 we find figure 17-7:



The UML Diagram with class details for data protection scheme should contain all the structural components and cover their relationships between the following elements currently found in part 15, examples and the part 15 XSD file:

- 100\_SE\_CertificateContainer (part15)
- StandaloneDigitalSignature (part15, XSD)
- StandaloneDigitalSignature (XSD; root element for CATALOG.SIGN and PERMIT.SIGN)
- DigitalSignature (part15)

- S100\_SE\_DigitalSignatureValue (part15)
- S100\_SE\_SignatureOnData (part15, XSD)
- S100\_SE\_SignatureOnSignature (part15, XSD)
- DataStatus (part15)
- S100\_SE\_DigitalSignatureReference (part15, XSD)
- PermitType (XSD)
- PermitHeaderType (XSD)
- DatasetPermitType (XSD)
- ProductsPermitType (XSD)
- S100\_SE\_DigitalSignature\_PropertyType (XSD)
- S100\_SE\_DigitalSignatureReference\_PropertyType (XSD)
- S100\_SE\_DigitalSignatureReference (XSD)
- Permit (XSD)
- S100\_SE\_CertificateType (XSD)
- S100\_SE\_CertificateContainerType (XSD)
- certificate (XSD)
- S100\_SE\_DigitalSignature (XSD)
- S100\_SE\_DigitalSignature (XSD)
- S100\_SE\_AdditionalSignature (XSD)
- signatureOnSignature (XSD)
- signatureOnData (XSD)

### **Analysis/Discussion**

In order to provide a good overview for implementers of the S-100 Data Protection Scheme as described in S-100 Part 15, it is suggested to create a UML diagram containing the class details for data protection. The detailed protection UML scheme should be located in part 15, and a reference to it in the part 17 UML diagram.

### **Conclusions**

- Instigate the creation of a UML diagram containing the class details for data protection.
- Discuss and decide the appropriate location of the UML diagram within S-100 Part 15.

### **Action Required of S100TSM9**

The S100TSM is invited to:

Note the paper and discuss proposed changes.