

## Paper for Consideration by TSMAD

### S-100 Part 3 Annex A

<b>Submitted by:</b>	UK
<b>Executive Summary:</b>	This paper presents two editorial inconsistencies identified in S-100 and proposes that TSMAD consider how these can be resolved in S-100 2.0.0.
<b>Related Documents:</b>	a) HSSC5 05.1A (section 2.1)
<b>Related Projects:</b>	1. S-100 2.0.0

### Introduction / Background

1. Currently TSMAD is agreeing to proposals that amend S-100 as it works towards developing an S-100 2.0.0 which reflects lessons learned as S-100 has been utilised to develop product specifications. This paper highlights a specific issue in S-100 and requests input from relevant S-100 contributors so that a solution can be reflected in S-100 2.0.0.

### Analysis/Discussion

2. S-100 1.0.0 Part 3 includes references to an unspecified Annex A in the following locations;

#### 3-4.2 Derivation of the General Feature Model

A conceptual model of types that shall be used in S-100 products is presented in this document. It is known as the GFM and is derived from the ISO 19109 General Feature Model by realization of its classes (see Annex A).

#### 3-5.2.3 The main structure of the GFM

Figure 3-1 shows an extract of the S-100 GFM. The complete model together with the realisation from ISO 19109 is shown in Annex A.

The following clauses define the elements of the GFM.

3. S-100 Part 3 does not have an Annex and S-100 Annex A is a list of terms and definitions so the UK considers that S-100 Annex A is not being referred to here. The UK suggests that during the development of S-100 Part 3 the intention was to document the full GFM or make it available separately as a package called S-100 Part 3 Annex A. this is speculation and contributors involved in the drafting of S-100 Part 3 who are still active in TSMAD are invited to comment.

4. Currently TSMAD plans to make the UML models of S-100 available alongside S-100 to assist those using and implementing the standard. One option for S-100 would be to establish these models as S-100 Annex B with S-100 referring to packages within the models by Package reference or namespace. For example the Feature Catalogue would be FC and include the model and schemas developed for the Feature Catalogue.

5. The UK also notes that at S-100 12-2 also refers to an Annex A in this instance the reference should be Appendix 12- A. It is also appropriate to reference the digital version of this form which is provided on the IHO website. Therefore the UK makes the following change proposal;

Amend S-100 12-2 para 4 sentence 2 from;

All proposals shall be submitted using the S-100 maintenance proposal form in Annex A.  
To;

All proposals shall be submitted using the S-100 maintenance proposal form [at Appendix 12-A, a digital version is also provided on the IHO website.](#)

### **Conclusion**

6. S-100 2.0.0 provides an opportunity to enhance S-100 and correct ambiguities which reflect its complex development. TSMAD should consider the specific issues described in this paper and take action to resolve them in S-100 2.0.0.

### **Action Required of TSMAD**

- To advise the status of S-100 Part 3 annex A
- Develop a solution for S-100 2.0.0 taking account of the option suggested at Para 4.
- Consider the S-100 change proposal at para 5.

