

Paper for Consideration by TSMAD

Restructure of S-58

Submitted by:	UK / IC-ENC
Executive Summary:	This paper reports on progress to restructure S-58 following an action assigned at TSMAD 23.
Related Documents:	1. S-58
Related Projects:	1. S-101

Introduction / Background

1. At TSMAD 23 following an action from HSSC the UK and IC-ENC were assigned the following action. This paper reports on progress of this action and presents in more detail the approach being taken;

20	4.7.1	<p>Prepare a new edition of S-58 based on the HSSC3 decision. Including the following;</p> <ul style="list-style-type: none"> • Restructuring the document. • IC-ENC to send the standard list of IC-ENC / Primar error / warning classification document to the S-58 sub WG. (RF) • Produce new S-58 test data sets for use in testing validation SW. 	<p>UKHO RF UKHO</p>
----	-------	---	-----------------------------

Analysis/Discussion

2. TSMAD 23 discussed the proposed changes and this paper provides attachments showing the Items progressed so far. This paper seeks to confirm the approach taken and to gather input for the work going forward.

The following attachments contain the work so far;

A – List of reclassified checks as supplied by IC-ENC

B – S-58 restructure syntax document

C – Example reworded section 2.2

3. Clearly, more work is required to complete the check classification and complete the rewording of the checks. The initial reclassification has used 5 categories which may need to be simplified to 3 categories, with the conditional nature of a check explained.

Some of the issues encountered as part of the rewording are as follows;

- Some checks need to be broken down into individual checks, where this has been done the existing identifier has been used and a,b,c etc added.
- Some checks cannot be translated to a logical language without making them very complex and long winded. Therefore in certain cases a worded check which does not use the defined syntax has been retained.

4. One item discussed at TSMAD 23 was the possibility of providing the S-58 checks in a formal language. This could use the language as used in S-100 Portrayal and provide the checks in an XML

form. It is suggested that this could be incorporated in a further revision of S-58 following this revision. The rewording of the tests into a more logical language takes a step towards this.

Conclusion

4. Revision of S-58 to restructure the document has begun this paper seeks to confirm the approach taken with TSMAD before work continues.

Action Required of TSMAD

- To consider the work completed to date and confirm that TSMAD is happy with the approach shown
- Invite interested parties such as software manufacturers to assist with the review of this work
- Invite any submissions for changes to S-58 checks to be incorporated in this revision