

Paper for Consideration by TSMAD 26

S-58 5.0.0 Progress

Submitted by:	UK/IC-ENC
Executive Summary:	This paper updates TSMAD on the delivery of S-58 5.0.0.
Related Documents:	a) TSMAD25 4.7.2
Related Projects:	1. N/A

Introduction / Background

1. TSMAD is currently revising S-58 to provide a robust set of classified checks. This paper reports on recent progress and introduces a draft to TSMAD for endorsement. Subject to TSMAD approval and further review this should be submitted to HSSC5 in November 2013.

Analysis/Discussion

2. An initial draft was submitted to TSMAD 25 (reference a)) an action was assigned to continue work on S-58 5.0.0 this has been coordinated by IC_ENC and the UK. Since TSMAD 25 reviews of both the check rewording and classification have been conducted by the production software manufacturers and TSMAD members respectively. This has resulted in a large number of comments. These are included as a ZIP archive forming annexe A of this paper.

3. After review of all comments by IC-ENC and the UK a revised draft '1.0' of S-58 5.0.0 has been created and accompanies this paper as annexe B. Items changed since the draft submitted to TSMAD25 are marked in **magenta** text. The following items remain to be resolved and can be reflected in the draft after discussion at this meeting;

- Review of all check rewording to enhance punctuation and ensure maximum use of operators defined in Part 1. This should include indicating tests where the defined syntax is not sufficient to express the logical assertion.
 - It is proposed that the UK/ICENC progress this post TSMAD with review by production software manufacturers. These changes will be limited to minor changes to language used.
- Part 2.3 service checks has been incorporated in the draft 1.0 this requires approval.
- Following comments from Australia agree new wording in part 1 of the draft which explains that the check classification reflects the end user impact not the strength of wording laid out in the S-57 ENC product specification and associated documents.
- A number of outstanding checks have been resolved however check 1767 and check 2000 in particular could be improved. TSMAD members are invited to propose solutions.
- Use of the TOUCHES/COINCIDENT operators, explanatory content in section 1 remains to be complete and the definitions of these operators requires further clarification.

4. S-58 5.0.0 enables the establishment of a minimum check standard for ENC. In order to achieve this test datasets to enable the testing of S-58 validation software is required. Since TSMAD 25 the UK has further developed the previous set of checks and this needs to be updated to reflect S-58 5.0.0. TSMAD

should assign this task for completion to accompany S-58 5.0.0. It is proposed that review of the test data can be delegated to an appropriate group of experts including production software manufacturers.

Conclusion

5. This paper reports on progress of the revision of S-58. This work will enable ENC data to meet a defined minimum standard. The work has progressed to a stable draft which reflects comments from production software manufacturers and TSMAD member states. The next stage is for TSMAD to endorse this draft for wider review and submission to HSSC5. TSMAD also needs to consider the finalisation of test data to support consistent application of the standard and enable testing.

Action Required of TSMAD

- To consider the items to resolve listed at paragraph 3 of this paper.
- To endorse draft 1.0 of S-58 5.0.0 and distribute the draft for full stakeholder review in advance of HSSC 5.
- To consider the production of S-58 test data for edition 5.0.0 utilising that which is already available.