

Paper for Consideration by TSMAD23
Wellington (New-Zealand)
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Impact study of S-101

Submitted by: France (SHOM)

Executive Summary: This is a proposal for the methodology of the impact study of S-101

Related Documents:

- 1/ Annex B to IHB CL 24/2011 § 3.2.2
- 2/ HSSC3 outcomes
- 3/ TSMAD Work Plan – Action 4.6
- 4/ PrCEN/TR 15449-3:2011

Related Projects: S-101

Introduction / Background

As foreseen in 2/2007 resolution (rel. 1/): “HSSC should consider the impact on relevant stakeholders when assessing a proposal and planning any subsequent work. This assessment should systematically include a risk and feasibility analysis, and an estimate of the resources needed for the implementation of a new or revised standard or its development, including within Member States Hydrographic Services.”

With the approaching release of S-101 standard (2012), as thoughts move towards migration plans, it seems important to consider the impact on relevant stakeholders.

The objective is therefore to facilitate this migration : the impact study should be considered as an enabler tool for TSMAD WG.

Main issues are to take benefits of S-101 new features, to migrate with a commensurate effort, staggered, adapted and followed by a majority of stakeholders.

Moving forward (rel. 2/ & 3/) :

Methodology

In order to get a global mapping of critical paths to support the migration, we should proceed step by step. All steps are of equal importance, none are less relevant all together. Some steps might run in parallel (2 & 3 for instance). No steps might be omitted as they are neither completely performed yet or described somewhere.

1.- Step - Identify stakeholders impacted by this new standard, from at least 2 crossed views :

All people or entities: navigators, shipowners, hydrographic offices, ECDIS manufacturers, subcontractors, retailers ...

All uses: GIS, e-navigation, ECDIS, RENC ...

2.- Step - Make a mailing list of stakeholders and send them the following survey :

Nota : Some questions are critical within the organizations strategy and will remain probably unanswered. But the survey should address all aspects as it must initiate a framework for impact analysis as complete as possible, as it is the only one and global initiative taken on this subject.

- ✓ Knowledge and level of involvement in the S-101 technical aspects
- ✓ State of ENC production : coverage plans, limits of cells, date of issues ...
- ✓ Paper to numeric transfer strategy – All digital or hybrid for a while
- ✓ Human resources challenges, especially for dual-production S-57 / S-101
- ✓ Financial difficulties : software licencies, training
- ✓ Specific constraints and obstacles of any kind
- ✓ Market analysis, interest or disinterest for S-101
- ✓ IMO milestones to meet
- ✓ Timetable foreseen for migration

A stepwise approach should be followed. Before sending the survey officially, representatives members of S-101 stakeholders composing TSMAD WG should answer it.

3.- Step – Give best chances to S-101, taking all aspects of migration in consideration

Take as a rule data specification developement as described in rel. 4/ (§9).

Analyze the added value of the new features of the S-101 under cost benefit consideration

Cross the new possibilities of S-101 with gaps identified by users S-57

Study the technical phase of cohabitation S-57 and S-101, all phases (in production, dissemination, exploitation, updating ..)

Provide ascendant compatibility and cohabitation within the future tools

Ensure minimum backward compatibility in the current tools, with or without few updating

4 .- Step – Take security

Contract with industry to commit at least on software compatibility aspects.

5 .- Step - Propose minimal measures for supporting transition to S101

Compile and analyze the answers of the survey : classify difficulties, order stakeholders by level of maturity

Offer different migration plans according to stakeholders

Define, develop and support migration tools

Offer training materials

Prepare the consensus and the conditions of the S-101 endorsement

Communicate results of this impact study to stakeholders within a wide opened meeting.

Action required of TSMAD

The TSMAD is invited to:

Make amendment on this first proposal

Consider what other actions might be taken to facilitate migration

Take any other action as appropriate