

**TSMAD 25**

Tokyo, Japan (15 – 18 January 2013)

**S-101 Survey Report****Software Producers**

Survey period : 15/07/2012 - 22/10/2012

Scrubbing consists in the elimination of empty answers, or non software producers answers.

After scrubbing and fusionning we collect **11 answers**

SPAWAR Systems Center Atlantic, NSWCCD-SSES Philadelphia, Northrop Grumman Mission System Europe, Todaka Corp., CARIS, TRESCO Engineering, QPS, Soft Business Union, Geomapping, Marinesoft Co. Ltd, L-3 Nautronix

Due to troncated digits sum of ratio are not always 100%.

Ratio are **blue highlighted** if there is a wide consensus.

Ratio are **yellow highlighted** when opinions are divided.

<b>General Questions</b>
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**1.- What is the name of your organisation ?**

**2.- Were you aware before this survey that an S-101 ENC product specification is being developed as a replacement for the S-57 ENC product specification?**

**100% Yes**

0% No

**3.- Will the machine readable XML files be useful in updating your systems when updates to S-101 enter force from time to time?**

**100% Yes**

0% No

“Clarification may be required. Understanding is that S-101 will have a shared XML feature catalog with S-57 which will be accommodated by VMS. No other known XML references at this time.” (NSWCCD-SSES)

**4.- During the transition period until S-57 is withdrawn, do you anticipate any issues with a production system being capable of exporting both S-57 and S-101 datasets?**

36% Yes

**64% No**

“It depends on the systems you are talking about. Many productions systems have been specifically designed around S-57, and it will require significant effort to upgrade these. The S-57 to S-101 converter will aid up until a point, but as soon HOs start implementing S-101 specific functionality within their hydrographic data, the S-57 to S-101 converter will be of little ongoing use.” (L-3 Nautronix)

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**5.- Do you anticipate any problems with storing and maintaining both S-57 and S-101 datasets?**

27% Yes

**73% No**

« The fundamental problem is precisely that data should not be stored and maintained as S-57 or S-101 datasets. Hydrographic data should be stored and maintained in one or more spatial databases. » (L-3, Nautronix)

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**6.- Please comment if there any other changes/ improvements you would recommend?**

« HOs should be strongly encourage to implement Enterprise GIS systems for their organisations. This will not only aid in their S-101 production efforts, but also have the following benefits: 1. better data management 2. greater consistency of data (cf. vertical and horizontal consistency S-65) 3. make hydrographic data MSDI ready Migrating data to an Enterprise GIS will require a large effort for many HOs, but I have no doubt that this is the best way forward. » (L-3 Nautronix)

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**7.- Has your company determined if there is a market for S-101 ENC's?**

« No » (SPAWAR)

« No » (NSWCCD-SSES)

« S-57 standard is too complex to implement at this time S-101 is anticipated to be easier therefore is a better option for future products » (Northrop Grumman)

« No » (Todaka Corp.)

« Not immediately. Eventually the same as the existing ENC market as systems and users move forward. » (CARIS)

« same market as the S57 market ! » (TRESKO)

« We expect, as long as S-57 is mandatory, the adoption of S-101 will be slow. » (QPS)

« We believe that migrating our software to be S-101 compliant is very import and are having discussions on how to fund this initiative. » (L-3 Nautronix)

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**8.- If S-101 was adopted by the IHO in 2014, what is your expected time to market with an S-101 ENC production system?**

« We are being tasked by NGA to modify COGENT during FY13-17 to work with S-10X datasets. » (SPAWAR)

« The seven-seas chart engine used by VMS is already being updated to support the s-10x format. Release of production software for use by the Navy would be

approximately 2 years after release of the updated charting engine.” (NSWCCD-SSES)

« 6 months » (Northrop Grumman)

« 2016 or later » (Todaka Corp.)

« In synch with IHO progress and market demands. » (CARIS)

« 2015 » (TRESKO)

« likely 2015 » (QPS)

« 6 months » (Soft Business Union)

« 2014-2015 » (Geomapping)

« We have an ENC validation system and we expect this to be functional by the time S-101 data is being produced by HOs. In the lead up to this date, we would be interested in working with the IHO with respect to the validation of S-101 datasets.” (L-3 Nautronix)