

HSSC15-PS2

Abstract: IHO Stakeholders' Open Session HSSC-15,

June 2023

S-100 Deployment – the Manufacturer and Service Provider Perspective

Andrey Vorobiev, ChartWorld GmbH

In November 2022 the IMO Maritime Safety Committee adopted the revised ECDIS Performance Standards to include S-100. ECDIS equipment installed after 1 January 2029 must conform to the new performance standard and ECDIS equipment installed after 1 January 2026 may already conform to the new performance standard.

The current global 'eco-system' for supporting electronic navigation by using ECDIS is rather unique in the entire transport industry. It has reached maturity; this is why shipping industry expectations regarding introduction of S-100 ECDIS are very high.

ChartWorld group is dealing with the whole lifecycle of ECDIS equipment and related services. Practical experience over the last couple of decades helps us to identify possible risks in deployment of S-100 ECDIS and related services.

Considering the timeline introduced by the IMO, there is limited time for ensuring smooth transition of ECDIS use to the new S-100 platform. Several factors must support this transition: technology, well-developed technical standards on both the IHO and IEC side, adjusted Type Approval practices, and cost-impact considerations throughout the value chain. The transition also requires clear rules for use of S-10x products by the shipping industry.

Normally, the 'average' ECDIS user on the bridge does not have a hydrographer's background. There is a need to minimise how many additional user controls in the ECDIS are required by S-100 introduction, for instance related to the interoperability. The aim in this is to ensure smooth transition of navigation practices in standard use cases. It is especially relevant in a 'Dual Fuel' environment where a mixture of new S-10x and S-57/63 products must still support seamless processes around ECDIS use on the bridge.

At the sub-ECDIS level, attention must be directed at enhanced safety of navigation for non-SOLAS shipping, as part of the transition to S-100. This is especially important keeping in mind the possible sunset of paper chart production in the future.