



S-101PT6

S-101 improvements during and after the Dual Fuel period

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Agenda Item 15

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INTRODUCTION

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- The first operational edition (2.0.0) of S-101 will probably be released in 2024.
- Will then start a Dual Fuel (DF) transition period (S-57 and S-101 ENCs), until the time when all ECDISs are fully S-100 compliant and the worldwide S-101 ENC portfolio is complete.
- This DF period will probably last between 5 and 10 years.
- In order not to confuse the mariner in a mixed environment of S-57 and S-101 ENCs, cartographic and functional features in the DF ECDIS should be **“seamless and presented under the identical presentation regime”**.
- i.e. during the DF period, S-101ENC portrayal will be “close” to the current S-52 Presentation Library.
- This “regime” or “Dual Fuel principles” needs to be precisely defined (in progress).

This paper suggests taking actions to ensure that constraints on DF ECDIS will not stop future improvements in view of “pure S-100 ECDIS”.



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DISCUSSION

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- HSSC (action HSSC 12/18) has tasked S-100WG/S-101PT “to prepare a governance document that formalizes the guiding principles of DF-Concept.”
- This document will be essential to assess “ENC portrayal” or “ECDIS functionalities” proposals as regards to DF context.
- One major question will be to define clearly what can be changed in S-101 portrayal as compared to S-52, and what must not change.
- S-101 Portrayal Sub-Group has initiated a “S-101 ECDIS Performance requirements log” that records new ECDIS performances proposals.
- There is a need to record also Portrayal proposals.
- Many proposals will probably be put aside because of the constraints due to the “identical presentation regime”.
- It is essential to capitalize all the work that HOs and Industry currently dedicate, for the future “pure S-100 ECDIS”.

[There is a risk that, once the DF period is over, there is no more energy or desire to improve S-101 Portrayal.](#)



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RECOMMENDATIONS

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In order to capitalize the efforts dedicated by HOs and OEMs, a plan of actions should be set up to prepare from now on, the “best” possible edition 2.0.0 of S-101, and the “best” possible pure S-100 ECDIS, with improved portrayal and ECDIS functionalities.

It is proposed to:

- Encourage people to present papers to improve S-100 performance and S-101 portrayal even though the chances of being implemented in a DF context may look slim;
- Store every proposal in a common place;
- Elaborate assessment criteria in regard of DF ECDIS principles (guidelines needed for the decision making process);
- Elaborate assessment criteria in regard of “pure S-100 ECDIS world”;
- Store the subsequent decisions;
- Consider the transfer of the proposals approved for post DF era to the TSMWG for development and testing (Singapore Laboratory?).



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ACTIONS REQUESTED FROM THE S-101 PROJECT TEAM

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1. Note this paper.
2. Discuss the recommendations.
3. Take any necessary action.