**Terms of Reference**

**for theOperations Working Group**

**Introduction**

One basic premise of e-Navigation from the outset has been that it should be user-driven. The Operations Working Group represents these users.

What shore-based providers may consider to be “useful” information does not necessarily mean that users (i.e., mariners) have the same opinion. What mariners consider “critical” information often depends on the current situation or task-at-hand.The implementation of e-Navigation should ensure the availability of all components and use them effectively to simplify the display of navigation information.

**Scope**

Provide a forum to represent the e-Navigation user communities.

**Objective**

The primary objective of the WG is to prepare and maintain Committee inputs to IMO on the user communities represented at IALA.

**Terms of Reference**

1. Further develop, maintain, revise or capture new e-Navigation ship and shore user needs, as required.
2. Contribute to the development of the IMO e-Navigation implementation plan by assessing operational issues pertinent to user needs, gap analysis, cost benefit analysis and their implementation issues.
3. Liaise with other e-Navigation WGs and IALA Committees concerning operational issues, both onboard and ashore.
4. Act as the focal point for liaison between the IALA e-Navigation Committee and IMO on e-Navigation matters (including input to the Correspondence Group)
5. Compile existing guidance, standards, and specifications related to the display of chart and other types of e-Navigation-related information (e.g., radar, ECDIS, AIS, INS, VTS/VTM, etc.).
6. Review existing performance standards and/or specifications for shipborne equipment/systems/services that have been adopted by IMO, IEC, IHO, ISO, etc.
7. Identify e-Navigation-related forms of information that warrant a harmonized presentation/display for shipborne and shore-based users.
8. Provide recommendations on how to resolve any inconsistencies and/or conflicts noted that may inhibit the harmonized display of e-Navigation information.
9. Monitor the development of ECDIS (including ENCs) and INS/IBS.
10. Evaluate new proposals for displaying e-Navigation related information, including AIS Application-specific Messages, Virtual AtoN, and Marine Information Overlays (MIOs).
11. Compile an e-Navigation Portrayal library that provides examples of how e-Navigation information is displayed on shipborne and shore-based equipment/systems.
12. Prepare input/guidance to IMO related to the harmonized presentation and display of e-Navigation related information.

**Deliverables**

**Coordinated input to the IMO Correspondence Group on e-Navigation**