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| From: ENAV Committee | ENAV24-13.3.2 |
| To: ARM Committee & IALA Steering Committee for the Cyber Security Workshop | 11 October 2019 |

LIAISON NOTE

ENAV Committee comments on the IALA Workshop on Cyber Security proposal

# INTRODUCTION

Input paper ENAV24-6.1.2 requests feedback from all Committee on the themes, outputs, aims and objectives of the forthcoming IALA Cyber Security workshop, planned for Oct 2020. It also seeks to gauge levels of interest amongst committee participants to attend the workshop.

The ENAV Committee welcomes the planned workshop on Cyber Security and regards this as an important contribution for the further development of e-Navigation.

The ENAV Committee has reviewed the workshop proposal and has made minor proposed changes, (mainly to broaden its focus).

The Committee’s comments are captured in this liaison note.

# DISCUSSION

The ENAV Committee proposes minor changes to the workshop content, as identified by yellow markings in the table below.

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| **Vision** | **CYBER SECURITY** |
| **Proposal** | Workshop on the threats to cyber security and the impact on the operation of AtoN and VTS.  Overall, the threats to e-navigation and risk mitigation measures, to ensure business continuity. |
| **Purpose** | * Share issues of common interest and concern; * Knowledge sharing and development; * Update workshop on common cyber security threats; * Update workshop on the functional elements of cyber security, contained in existing international guidance. * Develop IALA guidance on cyber security; * Update IALA Model Courses to include cybersecurity * Establish a cybersecurity certification methodology that is in line with international standards * Formulate a risk-based approach for mitigating cyber security threats in the provision of AtoN and VTS. |
| **Possible Topics** | * Cyber security update – latest issues, trends and threats; * Potential threats to the security of AtoN and VTS systems; * Impacts of cyber security risks and mitigation measures on positioning; * Presentations on real world cases; * A look at cyber security issues in other transport sectors; * Technology and protection against cyber-attacks ; * Identify and analyse upcoming technologies (like IP based communication, authentication and identification) and their potential to contribute to cyber security. * Secure AIS * Education & training of personnel; * Review IEC 62443, IEC 63154 (CD); IEC 61162-460; ISO 27000 & IMO Resolution MSC.428(98); MSC-FAL.1/Circ.3 (Cyber Risk Management Guidelines); FAL.6/Circ.16 (Business Continuity); Guidelines on Cyber Security onboard Ships (BIMCO et al); IET Code of Practice Cyber Security for Ships * Certification methodology in AtoN systems   Consider cyber security matters in the delivery of Maritime services in the context of e-navigation. |
| **Outcomes** | * Recommendation on cyber security measures for AtoN and VTS * Guideline on the Management of Cyber Security in the provision of Aids to Navigation, VTS systems and Maritime Services in the Context of e-Navigation. |
| **Goals** | * Understand cyber threats and how they may impact VTS, the provision of AtoNs and Maritime Services in the Context of e-Navigation; * Discuss the approach to address cyber threats, like risk analysis, to prioritize applicable measures; * Understand the importance of cyber security in development of systems that are dependent on the transmission and use of data; * Sharing of cyber security threats and analysis of actual incidents; * Lessons learnt from cyber security in other industries. |
| **Who** | The workshop will provide a forum for discussion between stakeholder groups. It is envisaged that invitations will be sent to:   * IALA National and Associate Members; * IALA Industrial Members; * Other stakeholders, as identified by the steering group. |
| **Size of Group** | It is expected that the Workshop will attract a group of up to 70 - 100 persons. |
| **Where** | Quebec, Canada. |
| **Duration** | 4 days, to be reviewed following development of the technical programme. |
| **When** | Week of 26 October 2020. |
| **Cost to Participants** | 650 Euros (TBC). |
| **Process** | Four Day Workshop  Day 1 – Introduction, Key note speech, Presentations (half day)  Day 2 – Presentations  Day 3 – Working groups  Day 4 – Working groups & draft document  Day 5 – Finalize document and Conclusion (half day) |
| **Steering Committee** | Proposed Steering Committee for the Workshop:  Chairman: ENG or ARM  1 Representative from each of the 4 IALA Committees  IALA Deputy Secretary General  IALA Technical Operations Manager  Host Nation Representative  IALA Technical Secretary |

# ACTION REQUESTED

ARM Committee and IALA Steering Committee of the Cyber Security Workshop are requested to consider the above proposals by the ENAV Committee when developing the Cyber Security Workshop program.