Input paper for the following Committee(s): Purpose of paper:

**□** ARM **□** ENG X PAP **X** Input

**□** ENAV **□** VTS **□** Information

Agenda item 7.1 Digital Maritime Services

Sub item 7.1.1 Coordination

Author(s) / Submitter(s) Secretariat

Committee Responsibilities 2018-2022 – Information services

# Background

Based on the output PAP34-20.12, Council 65, December 2017, agreed the Committee structure at Annex 1.

The proposal by PAP to Council, to move the operational aspects of Information Services from ENAV to ARM logically places most operational matters related to AtoN in ARM And PNT services to ENG. Operation matters related to VTS remain with the VTS Committee. This effects to all Committee’s work on developing S-200 related and emerging work items.

To avoid duplication and omissions in our work, and to ensure coordination within IALA and with other bodies, especially IHO, a more detailed explanation of responsibilities will be needed. This is important for PAP coordination work, but also for our Committee participants.

# Expanded structure diagram

Any amplification of the C-65 approved structure should be for explanatory and coordination purposes, and should take account of the Work Programme approved by Council at its 67th session earlier this year.

# Action requested of the Panel

The Panel is requested to discuss and agree on Annex 2 or a revision thereof.

# Annex 1

Committee Structure as submitted to, and agreed by, Council at its 65th session in December 2017.

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| ***Committee*** | ***Work Domains (from Standards structure)*** |
| **AtoN Requirements and Management (ARM)** | |
| AtoN Planning and Service Requirements | Obligations and regulatory compliance |
|  | Risk Management |
|  | Levels of service objectives |
|  | Quality management |
|  | AtoN Planning |
|  | Virtual marking |
| Information Services | Management of Maritime Service Portfolios and S-200 (from Data models and data encoding) |
|  | Terminology, symbology, and portrayal |
| Training and Certification | Training and Certification |
| Capacity building |  |
| **AtoN Engineering and Sustainability (ENG)** | |
| AtoN Design and Delivery | Visual signalling |
|  | Range and performance |
|  | Design, Implementation & Maintenance |
|  | Power systems |
|  | Floating AtoN |
|  | Environment, Sustainability & Legacy |
| Radionavigation Services | Satellite positioning and timing |
|  | Terrestrial positioning and timing (including eLoran, eChayka, R-mode) |
|  | Racon & radar positioning |
|  | Augmentation services (DGNSS) |
| Training and Certification | Training and Certification |
| Heritage Forum | Activate and manage Heritage Forum as necessary |
| **e-Navigation Information Services and Communications (ENAV)** | |
| Digital Communications Technologies | Wide/Medium bandwidth systems (AIS & VDES) |
|  | Narrow bandwidth systems (NAVDAT, MF beacons, etc.) |
|  | Harmonised maritime connectivity |
| Information Services | Data models and data encoding (IVEF, S-100, S-200, ASM, etc.) |
|  | Vessel tracking and data exchange systems |
|  | e-Navigation user requirements |
| Training and Certification | Training and Certification |
| **Vessel Traffic Services (VTS)** | |
| Vessel Traffic Services | VTS implementation |
|  | VTS operations |
|  | VTS data and information management |
|  | VTS communications |
|  | VTS technologies |
|  | VTS Auditing and assessing |
|  | VTS additional services |
| Training and Certification | Training and certification |

# Annex 2

Draft amplification of the Committee structure. Proposal by Secretariat.

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| ***Committee*** | ***Work Domains (from Standards structure)*** | ***Amplification points – only as necessary*** |
| **AtoN Requirements and Management (ARM)** | | |
| AtoN Planning and Service Requirements | Obligations and regulatory compliance |  |
|  | Risk Management | * Maritime data sharing for risk assessment   + IALA NET |
|  | Levels of service objectives |  |
|  | Quality management |  |
|  | AtoN Planning |  |
|  | Virtual marking | * Operational aspects of Virtual marking   + ENAV to advise on connectivity |
| Information Services | Management of Maritime Service Portfolios and S-200 (from Data models and data encoding) | * Operational considerations for S-200   + S-201 AtoN information   + S-230 Application Specific Messages * Coordination with IHO for S-100, S-200, and MRN management   + S-100/S-200 message coordination     - S-201 & S-125 etc.   + S-200 information content, except S-211 * Coordination with IHO, WMO, etc. on complete S-100 series   + Including adding MRN header to S-100 to increase S-numbers available * Digital Maritime Services   + Structure and content of Maritime Services   + IMO Coordinating Organisation matters     - With advice from VTS as necessary * Development of S-201 Testbed * Other s-200   + Envisage the scope of S-200 * Organizing a S-100/200 workshop in cooperation with IHO   + Date, place, and scope * IALA representation at IHO working groups in coordination with Secretariat   + HSSC, S-100WG, NIPWG |
|  | Terminology, symbology, and portrayal | * Coordination with IHO on portrayal and symbology |
| Training and Certification | Training and Certification |  |
| Capacity building |  |  |

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| ***Committee*** | ***Work Domains (from Standards structure)*** | ***Amplification points – only as necessary*** |
| **AtoN Engineering and Sustainability (ENG)** | | |
| AtoN Design and Delivery | Visual signalling |  |
|  | Range and performance |  |
|  | Design, Implementation & Maintenance |  |
|  | Power systems |  |
|  | Floating AtoN |  |
|  | Environment, Sustainability & Legacy |  |
| Radionavigation Services | Satellite positioning and timing |  |
|  | Terrestrial positioning and timing (including eLoran, eChayka, R-mode) | * S-245 eLoran ASF Data * S-246 eLoran Station Almanac * S-247 Differential eLoran Reference Station Almanac |
|  | Racon & radar positioning |  |
|  | Augmentation services (DGNSS) | * S-240 DGNSS Station Almanac |
| Training and Certification | Training and Certification |  |
| Heritage Forum | Activate and manage Heritage Forum as necessary |  |

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| ***Committee*** | ***Work Domains (from Standards structure)*** | ***Amplification points – only as necessary*** |
| **e-Navigation Information Services and Communications (ENAV)** | | |
| Digital Communications Technologies | Wide/Medium bandwidth systems (AIS & VDES) | * Coordination with ITU and IMO * Technical aspects of AMRD in cooperation with ARM * Studies to ensure awareness of existing and future connectivity options |
|  | Narrow bandwidth systems (NAVDAT, MF beacons, etc.) |
|  | Harmonised maritime connectivity |
| Information Services | Data models and data encoding (IVEF, S-100, S-200, ASM, etc.) | * Modelling and encoding for S-200 * Modelling and management of MRN |
|  | Vessel tracking and data exchange systems | * Technical aspects of vessel tracking   + Excludes reporting and single window |
|  | e-Navigation user requirements | * *Suggest delete.*   + *Already covered by IMO SIP, and if retained is probably better in ARM* |
| Training and Certification | Training and Certification |  |

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| ***Committee*** | ***Work Domains (from Standards structure)*** | ***Amplification points – only as necessary*** |
| **Vessel Traffic Services (VTS)** | | |
| Vessel Traffic Services | VTS implementation |  |
|  | VTS operations | * Operational aspects of vessel tracking |
|  | VTS data and information management | * S-210 Inter VTS exchange format (IVEF)   + Developing a guideline   + Following IHO’s adoption on Data streaming function * Operational aspects of S-211 Port Call message and its further development   + With advice from sister Organisations * Operational aspects of VTS digital Maritime Services   + Including Sea Traffic Management options   + In consultation with ARM * Vessel reporting   + Excluding single window and Port CDM |
|  | VTS communications | * Including transition to digital information flow and “silent VTS” |
|  | VTS technologies |  |
|  | VTS Auditing and assessing |  |
|  | VTS additional services |  |
| Training and Certification | Training and certification |  |