S-200 domain and e-navigation

HSSC7 Stakeholder Forum
November 2015

Dr Edward Hosken
IALA ENAV WG1 Chair

IALA Strategic Vision 2014-28

* 'The aim of IALA is to foster the safe and efficient movement of vessels through the improvement and harmonisation of marine aids to navigation worldwide, and by other appropriate means.'

* 2 Goals, 14 Priorities

* G1 – Aids to navigation systems and related services, including **e-Navigation,** Vessel Traffic Services, and emerging technologies, are harmonized through international cooperation and the provision of standards.

* P2 - Deliver a limited suite of high level standards suitable for direct citation by States and by other international organisations.

* P9 - Promote the demonstration of **e-Navigation** services, through the provision of test beds, and the harmonisation of results.

IALA Committees

* AtoN Requirements and Management (ARM)

* E-navigation (ENAV)

* AtoN Engineering and sustainability (ENG)

* Vessel Traffic Services (VTS)

* Policy and Advisory Panel (PAP)

ENAV

- Chair: Omar Frits Eriksson

- Vice Chair: Hideki Noguchi

- WG 1 Harmonization Edward Hosken

- WG 2 Implementation Mahesh Alimchandani

- WG 3 Telecommunications Peggy Browning

- WG 4 E-Nav Services Jon Leon Ervik

- WG5 PNT Alan Grant

WG1 - Harmonization

Topics and activities

* Support the IALA membership in the development of S-200 Product Specifications

* Develop the technical content of e-Navigation services and MSPs

* Management of IALA S-200 domain

* Co-ordinate technical input to IMO, IHO, ISO, IEC and CIRM on e-Navigation

* Liaison with IHO on matters regarding S-100 development

* Contribute to IMO/IHO Harmonisation Group on Data modelling (HGDM)

S-200 Domain

* Guidance to IALA members on product specification development (Guideline 1106)

* Procedures for domain management (guideline 1087)

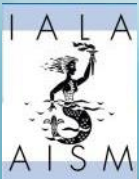| PS No.	Title	Status
S-201	Aids to Navigation Information	Draft completed
S-210	Inter VTS Exchange Format	Under development
S-230	Application Specific Messages	Planned
S-240	DGNSS Station Almanac	Draft completed
S-245	eLoran ASF Data	Under development
S-246	eLoran Station Almanac	Planned

IALA
AISM

ENAV17

* Met in Brest 26th–30th October 2015

Notable topics:

* Maintenance of a global repository for test-bed results

* Development of IALA e-Navigation roadmap

* Development of descriptions of the IMO Maritime Service Portfolios (MSP) to facilitate further technical development and implementation

IALA is a partner in the EfficienSea 2 project

* ✳ Create and implement – the 'Maritime Cloud'
* ✳ Implement e-navigation solutions e.g.
  * ▪ automated reporting
  * ▪ efficient port information
* ✳ Emergency response solution in remote areas (Arctic)
* ✳ Develop solutions to monitor emissions (SOx)
* ✳ Novel communication technology (reasonable price)
* ✳ Technical and governance standards

32 Partners; 2015-2018

- ✴ IALA hosts e-navigation.net

- ✴ Intended to be a central repository on e-navigation initiatives
    - conferences
    - test beds
    - demonstration software

- ✴ ENAV17 initiated a programme of enhancement

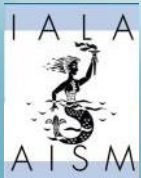# international e-Navigation underway 2016

The Coordinated Approach

Organised by
IALA and the Danish Maritime Administration

Conference dates: 2-4 February 2016

Venue: Ferry sailing from
Copenhagen to Oslo and back

More details and registration on
www.e-navigation.net

international e-Navigation underway 2016
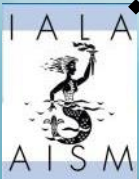
The Coordinated Approach

KEYNOTES
- ❖ Status of needed governmental actions of implementing the e-navigation solutions

- ❖ Setting the scene, IALA's work on the physical and logical e-navigation communication framework

PRESENTATIONS on
- ❖ How will your organisation utilise this framework in creating value to your customers?

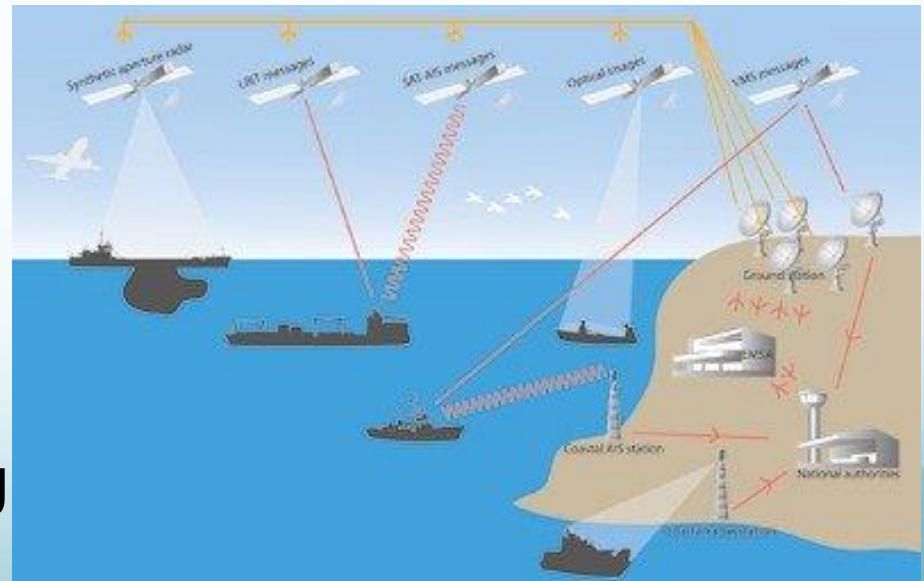- ❖ How will your organisation assist in progressing e-navigation?

IALA AISM

IALA Seminar on Maritime Digital Infrastructures and Testbeds

Topics

- Harmonisation of digital infrastructures for e-navigation
- Testbeds
- Identities & security
- Registration and management of services
- Governance

- ✸ 30 Nov – 3 Dec 2015
- ✸ Gothenburg, Sweden
- ✸ More details and registration on
  www.iala-aism.org

Conclusion

* IALA is active in the implementation of S-100 within the S-200 domain

* IALA is promoting e-navigation principles through conferences and testbeds

* IALA is aiming for e-navigation implementation through the development of MSPs