

United States Coast Guard Office of Navigation Systems



"We Help Mariners Get There"

Jorge Arroyo
RTCM Annual Assembly
September 24th, 2013

ENAV

The logo for ENAV, consisting of the letters 'E', 'N', 'A', and 'V' in a bold, blue, sans-serif font. The letters are spaced out and centered horizontally.

ENAV

Electronic Navigation

The logo for ENAV, consisting of the letters 'ENAV' in a bold, blue, sans-serif font. The background features abstract geometric shapes in shades of blue and red on the right side.

ENAV

Enhanced Navigation

The logo for ENAV, consisting of the letters 'ENAV' in a bold, blue, sans-serif font. The background features abstract geometric shapes in shades of blue and red on the right side.

ENAV

Expensive Navigation

ADD NAV

A2DD4N

A2DD4N

Analog-to-Digital -> Data For Navigation

MENU

Marine Safety Information

Enhanced Navigation

Navigational Aides

User Driven

MENU

Marine Safety Information

- Notice to Mariners
- Broadcast Notice to Mariners

In the near future MSI will also be available in e-formats

MENU

Enhanced Navigation

- Electronic Charts
- Radar

In the near future these systems will be enhanced with e-MSI

MENU

Navigational Aides

- Visual Aides to Navigation
- Radio-Navigation Services

We are adding e-ATON e-MSI to the constellation of aides and services

MENU

User Involvement

- Test Beds
 - Tampa, SF, Del Bay, Ohio River
- CMTS
- RTCM

RTCM

- *Sous-chef*

ENAV Special Committees

ENAV SC

- *SC109 - ECS*
- *SC112 - Radar*
- *SC121 - AIS*
- *SC129 - Portrayal*
- *SC130 - Electro-optical Imaging*
- *SC131 - Multi-Nav Receivers*

ENAV

“ ...is the harmonized collection, integration, exchange, presentation and analysis of marine information onboard and ashore by electronic means to enhance berth to berth navigation and related services for safety and security at sea and protection of the marine environment”

ENAV

“ ...is the harmonized collection [IHO S-100 Registry], integration [NMEA & RTCM standards], exchange [USCG, USACE, NOAA & the user], presentation [RTCM 109 & 129 standards] and analysis of marine information onboard [???] and ashore [USCG ATONIS & NAIS] by electronic means [AIS, ECS, Radar] to enhance berth [USA Ports & Navigable Waterways] to berth [Outside the USA ???] navigation and related services [USCG e-MSI & e-ATON] for safety and security at sea and protection of the marine environment”



EVAN

Efficacy

Via

Application Specific Messaging

Navigation

ASM

U.S. Application Specific Messaging

- RTCM 12100.1
 - Geographic Notice
 - Waterways Management
 - Environmental Conditions
 - Linked Text
 - Synthetic Target [Testing]
 - ATON Discrepancy [Testing]



e-Navigation Netherlands

- [AIS](#)
- [Inland](#)
- [Maritime](#)
- [Ports](#)
- [Contact](#)
- [Services](#)
- [Log in/request new password](#)

English  ▼

Application Specific Messages



IALA-AISM

This collection is not an endorsement of any message, and is not an authority for any DAC/FI combinations. IALA is not and will not be responsible for the wrong description of Application Specific Messages, and is not responsible for the data in the messages as wrongly used messages.

By pressing the column title you can sort the list

Title	Msg	DAC	FI	SU	Status	Registrant	Not to be used after
Monitoring aids to navigation	6	0	0	1	In force	Zeni Lite Buoy Co., Ltd	
Linked Text	8	367	29	5	proposal	USCG RDC	
Environmental Message	8	366	33	5	deprecated	USCG RDC	01/01/2014
Area Notice	8	366	22	5	proposal	USCG RDC	
Waterways Management	8	366	35	3	proposal	USCG RDC	
Environmental Message	8	367	33	5	proposal	USCG RDC	
Geographic Notice	8	367	22	5	proposal	USCG RDC	
Passenger and Crew Count	6	367	16	1	initiation	USCG RDC	
Waterways Management Message	8	367	35	3	proposal	USCG RDC	
Aids to Navigation monitoring data	6	235	10	1	In force	UK Trinity House	
Collision alarm	6	421	16	1	in testing	Sena and Vans Co., Ltd	

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