

**40<sup>th</sup> ANNUAL MEETING OF NAFO - SEPTEMBER 2018****Amendments to NAFO CEM Article 29 and Annex II.E –  
Vessel Monitoring System (VMS)**

This working paper is based on JAGDM Document 2018-01-09\_rev1.

The NAFO Conservation and Enforcement Measures prescribe electronic data transmission of VMS position data in Article 25. Details regarding data elements and required information in the messages/reports are indicated in the table in Annex II.E. It has become apparent that the usage of footnotes to describe the specialties of each message/report can lead to misunderstandings and have contributed to inconsistencies in electronic reporting by Contracting Parties.

At the March 2017 JAGDM meeting, Norway volunteered to write a proposal to rewrite Annex II.E of the NAFO CEM to provide further clarification through the removal of footnotes. As the June 2017 JAGDM meeting was postponed until October 2017, which was after the NAFO Annual Meeting, the proposal was rescheduled for review at the first JAGDM meeting of 2018. At the March 2018 meeting, the proposal by Norway was reviewed by JAGDM participants and some revisions were made.

Below is a reference to the existing table in Annex II.E and the edits recommended by JAGDM. The proposed edits separate the format specifications into two separate tables to alleviate the usage of footnotes to clarify the data elements required for the different message types. JAGDM also recommends revising the remarks associated with the data element “Type of Message” to reflect how they are defined in Article 29 in order to provide clearer definitions.



**The current Annex II.E in the NAFO CEM with the footnotes**

**Annex II.E  
VMS Data Format**

Format specifications when sending reports from FMC to NAFO (XNW) see also Annex II.D.A, II.D.B, II.D.C and II.D.D.1

Data Element	Field Code	Mandatory/Optional	Remarks
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination; "XNW" for NAFO
From	FR	M	Message detail; Name of transmitting Party (ISO-3)
Record Number	RN	M	Message detail; Unique serial number starting at 1 each year for records sent from the FMC to (XNW) (See also Annex II.D.C)
Record Date	RD	M	Message detail; Year, month and day in UTC of the record transmission from the FMC
Record Time	RT	M	Message detail; Hours and minutes in UTC of the record transmission from the FMC
Type of Message	TM <sup>4</sup>	M	Message detail; message type, "POS" as Position report/message to be communicated by VMS or other means by vessels with a defective satellite tracking device
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Sequence Number	SQ	M <sup>1</sup>	Message detail; Unique serial number starting at 1 each year for messages sent from a vessel to final destination (XNW) (See also Annex II.D.C)
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	O	Vessel registration detail; name of the vessel
Contracting Party Internal Reference Number	IR	O	Vessel registration detail. Unique Contracting Party vessel number as ISO-3 flag State code followed by number
External Registration Number	XR	O	Vessel registration detail; the side number of the vessel
Latitude	LA	M <sup>2</sup>	Activity detail; Latitude at the fixing of the position transmitted from the vessel
Longitude	LO	M <sup>2</sup>	Activity detail; Longitude at the fixing of the position transmitted from the vessel
Latitude (decimal)	LT	M <sup>3</sup>	Activity detail; Latitude at the fixing of the position transmitted from the vessel
Longitude (decimal)	LG	M <sup>3</sup>	Activity detail; Longitude at the fixing of the position transmitted from the vessel
Speed	SP	M	Activity detail; Speed at the fixing of the position transmitted from the vessel
Course	CO	M	Activity detail; Course at the fixing of the position transmitted from the vessel
Date	DA	M	Message detail; UTC date of the fixing of the position transmitted from the vessel
Time	TI	M	Message detail; UTC time of the fixing of the position transmitted from the vessel
End of record	ER	M	System detail; indicates end of the record

<sup>1</sup> Optional in case of a VMS message.

<sup>2</sup> Mandatory for manual messages

<sup>3</sup> Mandatory for VMS messages.

<sup>4</sup> Type of message shall be "ENT" for the first VMS message from the Regulatory Area as detected by the FMC of the Contracting Party. Type of message shall be "EXI" for the first VMS message from outside the Regulatory Area as detected by the FMC of the Contracting Party, and the values for latitude and longitude are, in this type of message, optional. Type of message shall be "MAN" for reports communicated by vessels with a defective satellite tracking device in accordance with Article 29.8.

## The Proposal

### Annex II.E VMS Data Format

#### 1) "Entry", "Position" and "Exit" messages

Format specifications when sending reports from FMC to NAFO (XNW) see also Annex II.D.A, II.D.B, II.D.C and II.D.D.1

Data Element	Field Code	Mandatory/Optional	Remarks
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination; "XNW" for NAFO
From	FR	M	Message detail; Name of transmitting Party (ISO-3)
Record Number	RN	M	Message detail; Unique serial number starting at 1 each year for records sent from the FMC to (XNW) (See also Annex II.D.C)
Record Date	RD	M	Message detail; Year, month and day in UTC of the record transmission from the FMC
Record Time	RT	M	Message detail; Hours and minutes in UTC of the record transmission from the FMC
Type of Message	TM <sup>4</sup>	M	Message detail; message types, <u>ENT, POS or EXI</u> ; "POS" as Position report/message to be communicated by VMS or other means by vessels with a defective satellite tracking device <u>(i) "ENT", for first VMS position transmitted by each vessel upon entering the Regulatory Area as detected by the FMC of the Contracting Party;</u> <u>(ii) "POS", for every subsequent VMS position transmitted by each vessel from within the Regulatory Area;</u> <u>(iii) "EXI", for first VMS position transmitted by each vessel upon exiting the Regulatory Area as detected by the FMC of the Contracting Party;</u>
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Sequence Number	SQ	<del>M</del> <sup>1</sup> <sub>0</sub>	Message detail; Unique serial number starting at 1 each year for messages sent from a vessel to final destination (XNW) (See also Annex II.D.C)
Trip Number	TN	0	Activity detail; fishing trip serial number in current year
Vessel Name	NA	0	Vessel registration detail; name of the vessel
Contracting Party Internal Reference Number	IR	0	Vessel registration detail. Unique Contracting Party vessel number as ISO-3 flag State code followed by number
External Registration Number	XR	0	Vessel registration detail; the side number of the vessel
Latitude	LA	<del>M</del> <sup>1</sup>	Activity detail; Latitude at the fixing of the position transmitted from the vessel
Longitude	LO	<del>M</del> <sup>1</sup>	Activity detail; Longitude at the fixing of the position transmitted from the vessel
Latitude (decimal)	LT	<del>M</del> <sup>1</sup> <sub>3</sub>	Activity detail; Latitude at the fixing of the position transmitted from the vessel
Longitude (decimal)	LG	<del>M</del> <sup>1</sup> <sub>3</sub>	Activity detail; Longitude at the fixing of the position transmitted from the vessel
Speed	SP	M	Activity detail; Speed at the fixing of the position transmitted from the vessel
Course	CO	M	Activity detail; Course at the fixing of the position transmitted from the vessel
Date	DA	M	Message detail; UTC date of the fixing of the position transmitted from the vessel
Time	TI	M	Message detail; UTC time of the fixing of the position transmitted from the vessel
End of record	ER	M	System detail; indicates end of the record

<sup>1</sup> ~~1~~ Optional for "EXI" messages

~~1~~ Optional in case of a VMS message.

~~2~~ Mandatory for manual messages

~~3~~ Mandatory for VMS messages.

~~4~~ Type of message shall be "ENT" for the first VMS message from the Regulatory Area as detected by the FMC of the Contracting Party.

Type of message shall be "EXI" for the first VMS message from outside the Regulatory Area as detected by the FMC of the Contracting Party, and the values for latitude and longitude are, in this type of message, optional.

Type of message shall be "MAN" for reports communicated by vessels with a defective satellite tracking device in accordance with Article 29.8.

## 2) “Manual” Position Report

Format specifications when sending reports from FMC to NAFO (XNW) see also Annex II.D.A, II.D.B, II.D.C and II.D.D.1

Data Element	Field Code	Mandatory/Optional	Remarks
Start record	SR	M	System detail; indicates start of record
Address	AD	M	Message detail; destination; “XNW” for NAFO
From	FR	M	Message detail; Name of transmitting Party (ISO-3)
Record Number	RN	M	Message detail; Unique serial number starting at 1 each year for records sent from the FMC to (XNW) (See also Annex II.D.C)
Record Date	RD	M	Message detail; Year, month and day in UTC of the record transmission from the FMC
Record Time	RT	M	Message detail; Hours and minutes in UTC of the record transmission from the FMC
Type of Message	TM	M	Message detail; message type; <a href="#">“MAN” for reports communicated by vessels with a defective satellite tracking device in accordance with Article 29.8.</a>
Radio call sign	RC	M	Vessel registration detail; international radio call sign of the vessel
Sequence Number	SQ	<del>M</del> <sup>1</sup>	Message detail; Unique serial number starting at 1 each year for messages sent from a vessel to final destination (XNW) (See also Annex II.D.C)
Trip Number	TN	O	Activity detail; fishing trip serial number in current year
Vessel Name	NA	O	Vessel registration detail; name of the vessel
Contracting Party Internal Reference Number	IR	O	Vessel registration detail. Unique Contracting Party vessel number as ISO-3 flag State code followed by number
External Registration Number	XR	O	Vessel registration detail; the side number of the vessel
Latitude	LA	<del>M</del> <sup>1</sup>	Activity detail; Latitude at the fixing of the position transmitted from the vessel
Longitude	LO	<del>M</del> <sup>1</sup>	Activity detail; Longitude at the fixing of the position transmitted from the vessel
<del>Latitude (decimal)</del>	<del>LF</del>	<del>M</del> <sup>2</sup>	<del>Activity detail; Latitude at the fixing of the position transmitted from the vessel</del>
<del>Longitude (decimal)</del>	<del>LG</del>	<del>M</del> <sup>2</sup>	<del>Activity detail; Longitude at the fixing of the position transmitted from the vessel</del>
Speed	SP	M	Activity detail; Speed at the fixing of the position transmitted from the vessel
Course	CO	M	Activity detail; Course at the fixing of the position transmitted from the vessel
Date	DA	M	Message detail; UTC date of the fixing of the position transmitted from the vessel
Time	TI	M	Message detail; UTC time of the fixing of the position transmitted from the vessel
End of record	ER	M	System detail; indicates end of the record

<sup>1</sup> Optional in case of a VMS message.

<sup>2</sup> Mandatory for manual messages

<sup>3</sup> Mandatory for VMS messages.

<sup>4</sup> Type of message shall be “ENT” for the first VMS message from the Regulatory Area as detected by the FMC of the Contracting Party.

Type of message shall be “EXI” for the first VMS message from outside the Regulatory Area as detected by the FMC of the Contracting Party, and the values for latitude and longitude are, in this type of message, optional.

Type of message shall be “MAN” for reports communicated by vessels with a defective satellite tracking device in accordance with Article 29.8.