AGREED RECORD OF CONSULTATIONS BETWEEN THE UNITED KINGDOM AND NORWAY ON ISSUES RELATED TO POSITION REPORTING OF FISHING VESSELS

19 JUNE 2024

1. In accordance with the Agreed Record of Fisheries Consultations between Norway and the United Kingdom, signed on 14 December 2023, a United Kingdom Delegation headed by Mr James Windebank, and a Norwegian Delegation headed by Mr Thord Monsen, consulted on revising the Technical Annex to the Agreed Record[1] between the two parties on issues related to position reporting of fishing vessels.

2. The Delegations decided to recommend to their respective authorities to implement the provisions related to position reporting of fishing vessels as outlined in the following paragraphs and in Annex I.

3. The Delegations recalled that in accordance with the Framework Agreement on Fisheries between Norway and the United Kingdom, signed 30 September 2020, fishing vessels of one Party shall, when fishing within the area of fisheries jurisdiction of the other Party, comply with the conservation measures, other terms and conditions, and all rules and regulations governing fishing activities in that area.

4. The Delegations decided that all fishing vessels operating in waters under the jurisdiction of the other Party shall use a Vessel Monitoring System as described in this Agreed Record to provide vessel position reports to their Flag State Fisheries Monitoring Centre (FMC). The Delegations decided, that if one of the Parties is planning to introduce requirements that will enlarge the scope of the reporting requirements in its own waters, inter alia vessel coverage or increased transmission frequency on position reports, it will consult the other Party before introducing such requirements.

5. For the purpose of this Agreed Record "Fishing vessel" means any vessel equipped for commercial exploitation of wild living marine resources, including fish processing vessels and vessels engaged in transhipments of fishery products.

6. To be able to identify vessels operating in waters under the jurisdiction of the other Party, detailed information about vessels authorised to fish by the Flag State shall be notified to the other Party in accordance with the Technical Annexes to the Agreed Record of Consultations on Fisheries between the United Kingdom of Great Britain and Northern Ireland and the Kingdom of Norway. In addition, the UVI[2] shall be provided for all vessels that can obtain it from the International Maritime Organisation (IMO). The Delegations take note that there are ongoing discussions to revise the Agreed Record on an electronic notification and authorisation scheme.

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[1] Technical Annexes to the Agreed Record of Consultations on Fisheries between the United Kingdom of Great Britain and Northern Ireland and the Kingdom of Norway.

[2] Universal Vessel Identifier.

7. For the purpose of vessel position reporting as described in this Agreed Record, the Parties shall exchange consistent latitude and longitude coordinates of waters which fall under their jurisdiction. Such coordinates shall be without prejudice to other claims and positions of the Parties. The data shall be communicated in computer readable form, as decimal degrees in the WGS-84 datum.

8. The Vessel Monitoring System (hardware and software components) shall be tamper-proof i.e. shall not permit the input or output of false positions and must not be capable of being manually overridden. The system shall be fully automated and operational at all times, regardless of the surrounding environment. It shall be prohibited to destroy, damage, render inoperative or otherwise interfere with the vessel position reporting device.

   In particular, the master of the vessel shall ensure that:

   - data is not altered in any way
   - the antenna or the antennas connected to the vessel position reporting devices are not obstructed in any way
   - the power supply of the vessel position reporting devices is not interrupted in any way
   - the vessel position reporting devices are not removed from the vessel

9. The vessel positioning device installed on board fishing vessels must ensure automatic transmission to the FMC of the flag state with data relating to:

   - the fishing vessel identification
   - the most recent geographical position of the fishing vessel, with a position error less than 500 metres, with a confidence interval of 99%
   - the date and time in UTC
   - the speed and course of the fishing vessel

10. When a fishing vessel enters into the waters under the jurisdiction of the other Party, the Flag State shall transmit to the relevant FMC of the other Party the first vessel position report from that vessel in the waters of the other party. When a fishing vessel exits from the waters under the jurisdiction of the other Party, the Flag State shall transmit to the relevant FMC of the other Party the first vessel position report from that vessel outside the waters of the other party. These reports shall be marked as vessel Entry and vessel Exit reports respectively, as described in Annex I.

11. When a fishing vessel is in the waters under the jurisdiction of the other Party, the vessel shall be tracked, and the Flag State shall transmit the latest vessel position report from the vessel hourly, as described in Annex I, to the relevant FMC of the other Party. Parties may request position reports with increased frequency for a vessel, where justified for monitoring, control or surveillance purposes.

12. The Delegations decided that other scenarios of enhanced data exchange of vessel position reports may be established through bilateral consultations and that all exchange of position reports between the Parties should be implemented in accordance with this Agreed Record.

13. The vessel position reports described in paragraphs 10, 11, 12 and 17 shall be exchanged as FLUX Vessel Position Messages in UN/FLUX format using the Transportation Layer and according to the specifications described in Annex I.

14. The FMCs of the United Kingdom shall be the UKFMC and Cefas as described in Annex I. The FMC of Norway is, as described in Annex I, established at the Directorate of Fisheries in Bergen, Norway. The vessel position reports referred to in paragraph 13 shall be transmitted to the relevant FMC of the other Party through a single connection between the United Kingdom and Norway.

15. The Parties shall exchange information concerning addresses and specifications that shall be used for electronic communication between their FMCs. Such information shall, to the extent available, also include names, telephone numbers and e-mail addresses that can be useful for general communication between the FMCs.

16. In dealing with information in connection with this Agreed Record and its Annexes, each Party will comply with their own applicable rules and regulations concerning the protection of data.

17.1 In the event of technical failure or non-functioning of the vessel position reporting device fitted on board a vessel, the master of the vessel shall communicate to their Flag State FMC information according to paragraphs 11 and 12 without delay. At least one vessel position report every 4 hours shall be considered sufficient under such circumstances, as long as the vessel stays within the waters under the jurisdiction of the other Party. The Flag State FMC shall transmit such messages (manual vessel position report as described in Annex I) to the FMC of the other Party without delay and in accordance with paragraphs 13 and 14.

17.2 The faulty equipment shall be repaired or replaced before the vessel re-enters the waters under the jurisdiction of the other Party, after having left it, or before the next departure from any port, whichever comes first.

17.3 The Flag State FMC can grant an exemption where it is evident that the equipment cannot be repaired or replaced for reasons outside the control of the master or the owner of the vessel. The Flag State FMC shall inform the FMC of the other Party about this decision without delay. Fishing Activities in the waters of the other Party are not allowed in this circumstance.

18 The Flag State FMC shall monitor the tracking of its vessels when in the waters under the jurisdiction of the other Party. In the event a malfunctioning[3] in the tracking of a vessel is discovered, the Flag State FMC shall inform the FMC of the other Party without delay.

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[3] Non-transmission or transmissions not in line with the specifications set out in this Agreed Record.

19 In the event of a technical failure in the transmission between FMCs or when an FMC discovers that vessel positioning data is not being communicated in accordance with the specifications set out in the agreement, the procedures established in the FLUX Business Continuity Plan[4] shall be initiated. Communication failures between FMCs shall not affect the operations of the vessels.

20 The Parties decided to exchange upon request, information on the equipment used for the operation of vessel position reporting in order to confirm that such equipment is fully compatible with the requirements set out in this Agreed Record.

21 The Parties decided to review this Agreed Record, as appropriate.

22 By the date of its application referred to in Section 23, this Agreed Record replaces any other existing arrangement between the Parties on the exchange of vessel position data.

23 The Delegations decide to apply the arrangements in this Agreed Record at the latest on 1 December 2024.

Date: 19/6/24

Place: Brussels

For the United Kingdom Delegation
James WINDEBANK

Date: 19/6/24

Place: Brussels

For the Norwegian Delegation
Thord MONSEN

[4] Reference to a possible agreement on the FLUX Transportation Layer.

ANNEX I

Communication of VMS messages to the FMC of the other Party

INTRODUCTION

This document aims to describe the implementation of Vessel Position messages based on UN/FLUX Standard in the context of exchange between **the United Kingdom and Norway**.

Submissions of reports will be done through the FLUX Transportation Layer.

REFERENCES

UN/CEFACT P1000 FLUX Standard v1.0 [5]:

- FLUX BRS: P1000 – 1; General principles (version 2.1).
- FLUX BRS: P1000 – 7; Vessel Position domain (version 2.0).

UN/CEFACT FLUXVesselPositionMessage_4p0.xsd[6]

SCOPE

The scope of this document is limited to the transmission between the Norwegian FMC and the FMCs of the United Kingdom as referred to in paragraph 14 of this Agreed Record, and as described in this Annex.

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[5] http://www.unece.org/cefact/brs/brs_index.html

[6] http://www.unece.org/fileadmin/DAM/cefact/xml_schemas/D15B.zip

FMC

Business related inquiries:

Norwegian FMC	**UKFMC**
fmc@fiskeridir.no	UKFMC@gov.scot
Directorate of Fisheries, Bergen	The Marine Directorate of the Scottish Government, Edinburgh *and* ops@marinemanagement.org.uk Marine Management Organisation, Newcastle

Technical inquiries:

Norwegian FMC	**Cefas**
fmc@fiskeridir.no	atoperations@cefas.gov.uk
Directorate of Fisheries, Bergen	Centre for Environment Fisheries and Aquaculture Science, Suffolk

DATA MODEL IMPLEMENTATION

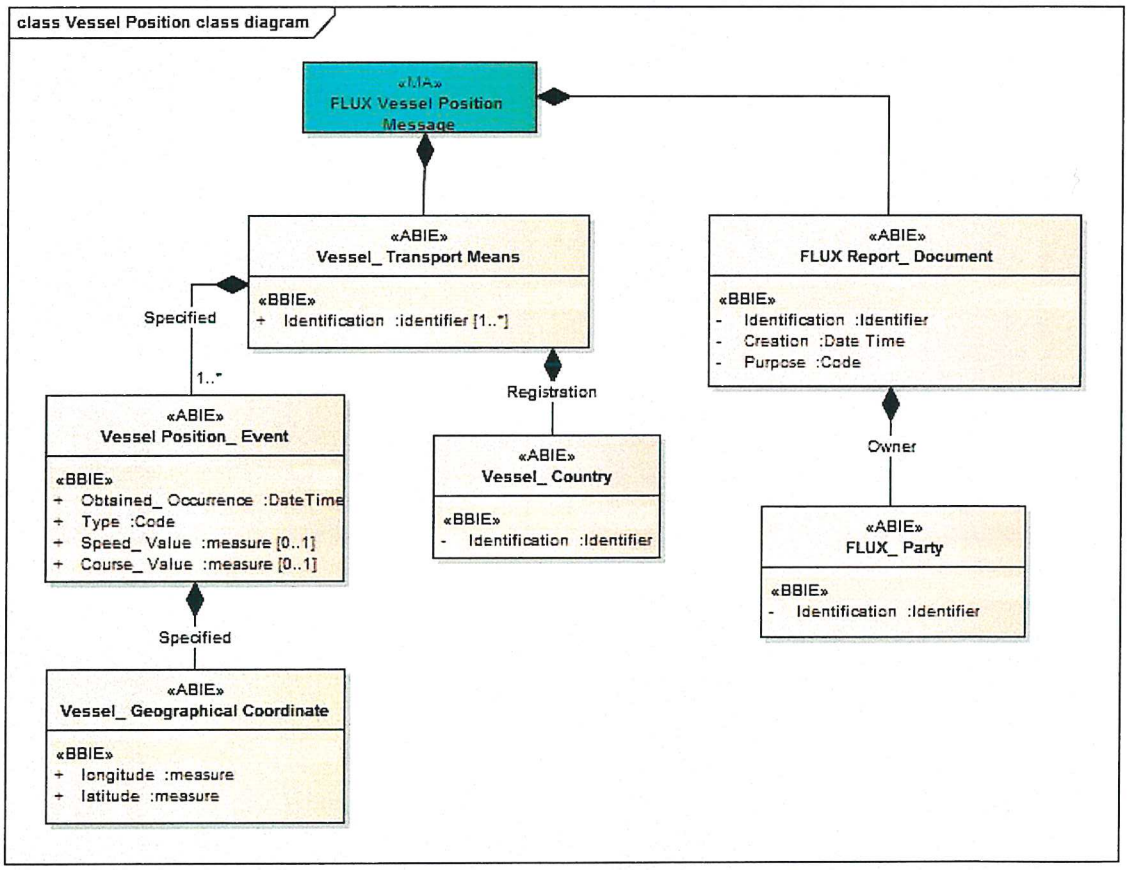
The implementation of the Vessel Position Data Model applies the following general constraints at the level of XSD Element attributes:

(1) For Code & Identifier DataType: *listID* or *schemeID* attribute must be provided if it is not specifically defined in the definition of the element;

(2) For DateTime DataType: only udt:DateTime (of type xsd:dateTime) choice is used. The date and time must be in line with ISO8601 and expressed in UTC, unless explicitly mentioned otherwise. The format shall be YYYY-MM-DDThh:mm:ss[.000000]Z[7];

The following diagram describes the Vessel Position Data Model used for the implementation of transmission of VesselPositionMessage.

Figure 1: Vessel Position Message Data Model



The table below describes the entities and data elements in the FLUX Vessel Position Message as defined in the Data Model (**Figure 1**):

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[7] YYYY= year; MM= month, including leading 0 where month number is less than 10; DD= day of the month including leading 0 where day number is less than 10; T= the letter T to indicate the part of the time section; H24= hours of the day expressed with 2 digits using the 24-hour notation; MI=minutes expressed as 2 digits; SS=seconds expressed as 2 digits; [.000000]= optionally fractions of seconds may be included up to 6 digits, not including the brackets; Z= time zone, which must be Z (ie. UTC)

Entity/Field Name	DataType	Cardinality		Description	Remarks
		Min	Max		
FLUX Report_ Document		1	1	The report details for this FLUX Vessel Position message.	FLUX General Principles Entity
Identification	Identifier	1	1	The unique identification of the FLUX vessel position message.	A UUID as defined in the RFC 4122. *schemeID*=UUID
Creation	DateTime	1	1	The date, time, date time of the creation of the FLUX vessel position message.	A UTC date time. Must be according to the definition provided in "(2) For DateTime DataType" as described above in this Annex.
Purpose	Code	1	1	The code specifying the purpose of this FLUX report document, such as original, cancellation or replace.	Attribute *listID*= FLUX_GP_PURPOSE Restriction: only value 9[8] (original) is used in this context.
Owner. FLUX_ Party	Assoc.	1	1	Entity used to provide information on Party/Flag State owning the FLUX Vessel Position report.	FLUX General Principles Entity
Identification	Identifier	1	1	An identifier of this FLUX party.	Attribute *schemeID*= FLUX_GP_PARTY ISO 3166-1 alpha-3 code of the country owning this report.
Vessel_ Transport Means		1	1	Entity used to provide the identification of the vessel.	
Identification	Identifier	1	*	An identifier for this vessel, such as the radio call sign, or an external marking.	a) Mandatory for all vessels: *schemeID*=IRCS & value= radio call sign b) Mandatory for all fishing vessels having such identification: *schemeID*=UVI & value= IMO number c) In addition, optional vessel identifiers with *schemeID* defined in the code list FLUX_VESSEL_ID_TYPE Examples:, EXT_MARK (external registration or hull number)
Registration. Vessel_ Country	Assoc.	1	1	The country of registration of this vessel.	
Identification	Identifier	1	1	The identifier for the flag state.	*schemeID* = TERRITORY ISO 3166-1 alpha-3 code of the country where the vessel is registered (flag state).

[8] EDIFACT Code List 1225 (qDT UN02000125 - Message Function_ Code).

Entity/Field Name	DataType	Cardinality		Description	Remarks
		Min	Max		
Specified. Vessel Position_ Event	Assoc.	1	*	The general information of the VMS message.	More than one position can be provided.
Obtained_ Occurrence	DateTime	1	1	The date and time when the position of the vessel was taken by the vessel's navigation equipment.	The UTC date time when the position was obtained by the vessel navigation equipment, transmitted by the VMS system on-board of the vessel. Must be according to the definition provided in "(2) For DateTime DataType" as described above in this Annex.
Type	Code	1	1	The code specifying the type of vessel position event.	Attribute *listID* = FLUX_VESSEL_POSITION_TYPE Example of values are: "ENTRY,"EXIT","POS", "MANUAL".
Speed_ Value	Measure	1	1	The measure of speed of the vessel for this vessel position event.	In knots. Maximum 2 significant decimals.
Course_ Value	Measure	1	1	The measure of course of the vessel for this vessel position event.	In degrees and decimal degrees. Maximum 2 significant decimals.
Specified. Vessel_ Geographical Coordinate	Assoc.	1	1	The latitude and longitude of a specified place, by which a vessel's relative situation on the globe is known.	Geographical Coordinates of the vessel transmitted by the VMS system at Obtained DateTime.
Latitude	Measure	1	1	The measure of the latitude as an angular distance north or south from the Equator meridian to the meridian of a specific place for this vessel geographical coordinate.	Reference ISO 6709. Coordinate expressed in WGS84, decimal degree notation, using a precision of at least 3 and maximum 6 decimal positions. Positive coordinate refers to North of equator. Negative coordinate refers to South.
Longitude	Measure	1	1	The measure of the longitude as an angular distance east or west from the Greenwich meridian to the meridian of a specific place for this vessel geographical coordinate.	Reference ISO 6709. Coordinate expressed in WGS84, decimal degree notation, using a precision of at least 3 and maximum 6 decimal positions. Positive coordinate refers to East of Greenwich meridian. Negative coordinate refers to West.

XML EXAMPLE

```
<rsm:FLUXVesselPositionMessage
xmlns:rsm="urn:un:unece:uncefact:data:standard:FLUXVesselPositionMessage:4"
xmlns:ram="urn:un:unece:uncefact:data:standard:ReusableAggregateBusinessInforma
tionEntity:18"
xmlns:udt="urn:un:unece:uncefact:data:standard:UnqualifiedDataType:18">

    <rsm:FLUXReportDocument>
    <ram:ID schemeID="UUID">c133b211-0b0e-4358-893c-7afb5437bd61</ram:ID>
    <ram:CreationDateTime>
        <udt:DateTime>2024-01-24T09:30:47.0Z</udt:DateTime>
    </ram:CreationDateTime>
    <ram:PurposeCode listID="FLUX_GP_PURPOSE">9</ram:PurposeCode>
    <ram:OwnerFLUXParty>
        <ram:ID schemeID="FLUX_GP_PARTY">NOR</ram:ID>
    </ram:OwnerFLUXParty>
    </rsm:FLUXReportDocument>

    <rsm:VesselTransportMeans>
    <ram:ID schemeID="EXT_MARK">HO-0001-BR-</ram:ID>
    <ram:ID schemeID="IRCS">RADIO50</ram:ID>
    <ram:ID schemeID="UVI">1234567</ram:ID>
    <ram:RegistrationVesselCountry>
        <ram:ID schemeID="TERRITORY">NOR</ram:ID>
    </ram:RegistrationVesselCountry>

    <ram:SpecifiedVesselPositionEvent>
        <ram:ObtainedOccurrenceDateTime>
            <udt:DateTime>2024-01-24T09:30:47.0Z</udt:DateTime>
        </ram:ObtainedOccurrenceDateTime>
        <ram:TypeCode listID="FLUX_VESSEL_POSITION_TYPE">POS</ram:TypeCode>
        <ram:SpeedValueMeasure>8.3</ram:SpeedValueMeasure>
        <ram:CourseValueMeasure>52</ram:CourseValueMeasure>
        <ram:SpecifiedVesselGeographicalCoordinate>
            <ram:LatitudeMeasure>57.144</ram:LatitudeMeasure>
            <ram:LongitudeMeasure>-0.580</ram:LongitudeMeasure>
        </ram:SpecifiedVesselGeographicalCoordinate>

    </ram:SpecifiedVesselPositionEvent>
    </rsm:VesselTransportMeans>
</rsm:FLUXVesselPositionMessage>
```

ANNEX II

FLUX TL envelope parameters

Common name	FLUX TL Envelope Tag name	Value	Remark
Dataflow name	DF	urn:un:unece:uncefact:data:standard:FLUXVesselPositionMessage:4	
Timeout DateTime offset	TODT offset	60 minutes	This value is used to calculate the TODT parameter of the FLUX TL envelope, which is expressed as XSD DateTime in UTC. Must be according to the definition provided in Annex I point 4(2).
Acknowledge Receipt	AR	True	Each vessel position message will be positively acknowledged with 201 status code to the sending node upon receipt by the destination node. Note: a non-delivery (timeout) or other error status message will always be sent to the sender.

ANNEX III

FLUX to NAF mapping

Entity/Field Name	DataType	Cardinality		Description	NAF equivalent
		Min	Max		
FLUX Report_ Document		1	1	The report details for this FLUX Vessel Position message.	
Identification	Identifier	1	1	The unique identification of the FLUX vessel position message.	Similar, though not equivalent to RN – Record number.
Creation	DateTime	1	1	The date, time, date time of the creation of the FLUX vessel position message.	Similar, though not equivalent to RD + RT – Record date and record time
Purpose	Code	1	1	The code specifying the purpose of this FLUX report document, such as original, cancellation or replace.	None. All NAF VMS messages are assumed to be original. Corrections and cancellations are not allowed.
Owner. FLUX_ Party	Assoc.	1	1	Entity used to provide information on Party/Flag State owning the FLUX Vessel Position report.	
Identification	Identifier	1	1	An identifier of this FLUX party.	FR – From
Vessel_ Transport Means		1	1	Entity used to provide the identification of the vessel.	
Identification	Identifier	1	*	An identifier for this vessel, such as the radio call sign, or an external marking.	RC – Radio Call Sign (IRCS) of the vessel. **Optional:** **IR – Internal Reference Number** **XR – External Registration Number** ***IM – IMO number*** *(currently not defined for NAF VMS)*
Registration. Vessel_ Country	Assoc.	1	1	The identifier for the flag state.	

Entity/Field Name	DataType	Cardinality		Description	NAF equivalent
		Min	Max		
Identification	Identifier	1	1	The identifier for this vessel country.	FS – Flag state
Specified. Vessel Position_ Event	Assoc.	1	*	The general information of the VMS message.	
Obtained_ Occurrence	DateTime	1	1	The date and time when the position of the vessel was taken by the vessel's navigation equipment.	DA – date TI – time
Type	Code	1	1	The code specifying the type of vessel position event.	TM – message type
Speed_ Value	Measure	1	1	The measure of speed of the vessel for this vessel position event.	SP – vessel speed Note: in NAF this is expressed in tenths of knots.
Course_ Value	Measure	1	1	The measure of course of the vessel for this vessel position event.	CO – vessel course
Specified. Vessel_ Geographical Coordinate	Assoc.	1	1	The latitude and longitude of a specified place, by which a vessel's relative situation on the globe is known.	
Latitude	Measure	1	1	The measure of the latitude as an angular distance north or south from the Equator meridian to the meridian of a specific place for this vessel geographical coordinate.	LT – latitude
Longitude	Measure	1	1	The measure of the longitude as an angular distance east or west from the Greenwich meridian to the meridian of a specific place for this vessel geographical coordinate.	LG – longitude