European Maritime Safety Agency

Integrated Report Distribution

System Interface Guide

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1. Introduction

1.1 Document Overview

This document describes the system to system interface of the Integrated Report Distribution (IRD) system. It serves as a reference for all technical aspects related to the implementation of this interface.

1.2 Scope

This document provides a detailed description of the system interface between external systems and IRD. The system interface uses the following messages:

- ISR_Request
- ISR_Receipt
- ISR_Push

1.3 Applicable IRD release

This document is compliant with IRD version 1.1.

2. System Interfaces

2.1 Services Overview

The IRD is a system operated by EMSA and available to Member State applications.

The IRD system monitors ships sailing in areas of interest and sends Integrated Ship Report (ISR) messages to users (via e.g. system interface, email, user interface) when specific events occur, such as: entry of a ship in the area, exit of a ship from the area, call of a ship in a port in the area, departure from a port in the area, reception of an MRS report regarding a ship in the area, reception of an Incident Report regarding a ship in the area, changes to ships particulars, etc. This is done by configuring a "distribution service" for a specific area of interest and a specific Member State system.

The ISR is composed of information related to the ship from EMSA maritime applications (e.g. STAR-TRACKING, SSN-EIS, OVR) and from the Voyage Information Service (VIS) of the STM (Sea Traffic Management) project.

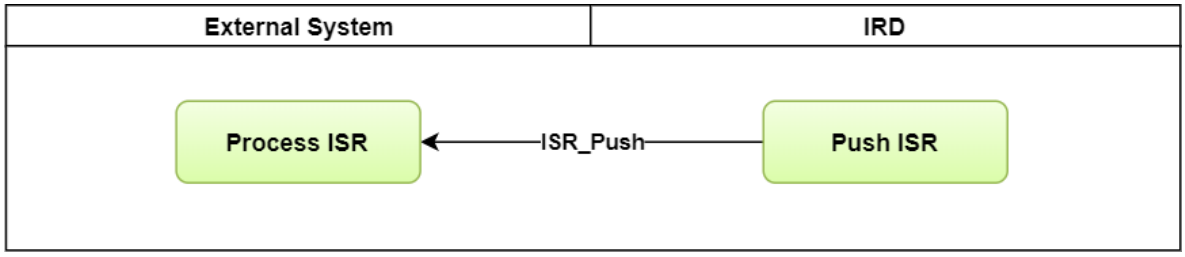
The IRD offers the following services:

- Push ISR: This service is used by the IRD to "push" to a Member State system, which has been configured under a distribution service of IRD, ISR messages when certain events occur (e.g. entry into area). The trigger for this service is an event or list of events previously configured under the distribution service.
- Request / Response: This service is used to request an ISR for a specific ship and a specific distribution service. The trigger for this service is an ISR Request message submitted by an external system. The resulting ISR is communicated through the Push ISR service.

2.2 Message flows

2.2.1 Push ISR service

The "Push" service requires the previous configuration of a distribution service with an area of interest, the identification of the external system's end-point (i.e. the MS system) and a list of events that will trigger the generation of ISR. The Push ISR service involves the following flow of messages:

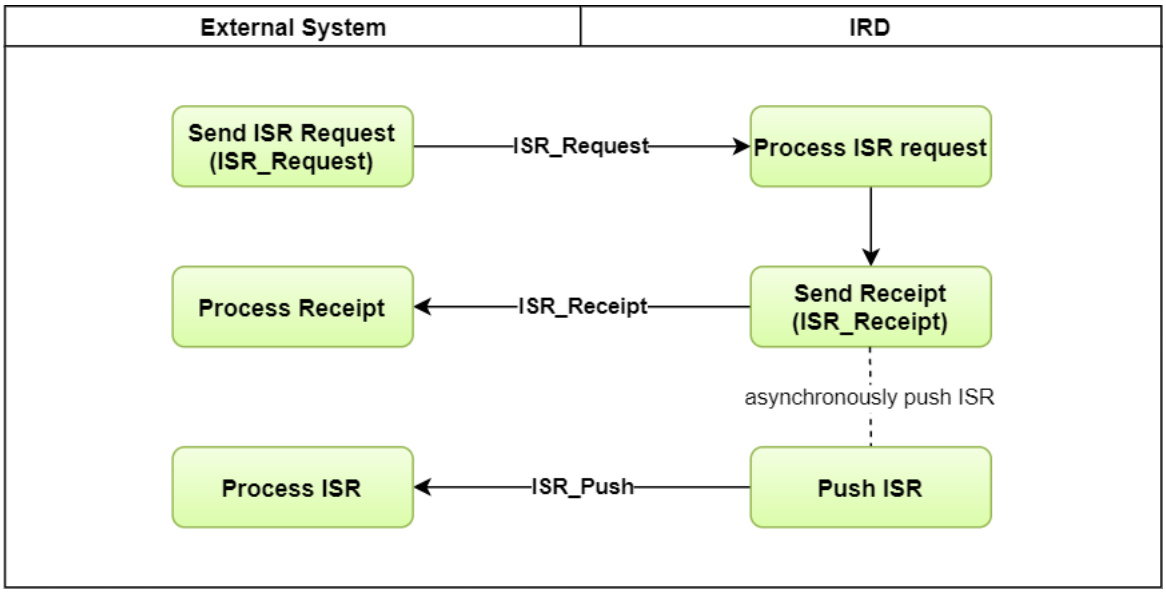


The message exchange flow is described in the following table.

Step	Action
1	An **ISR_Push** message is sent by the IRD to the external system – one-way messages without SOAP response. The HTTP response should be a 204 (No content) status code and an empty HTTP body – no SOAP envelope.
2	Upon receipt of the **ISR_Push** message, the external system should log and process it.

2.2.2 Request / Response service

The request/response service involves the following flow of messages:



The message exchange flow is described in the following table.

Step	Action
1	An **ISR_Request** message is sent by the external system to IRD to request an ISR for a specific ship and a specific distribution service.
2	Message Processing: • IRD logs and validate the received **ISR_Request** message. • If the request is not successfully authenticated, an **IRD_Receipt** message with StatusCode='Unauthorized' is sent synchronously to the external system. • If the **ISR_Request** message is not well-formatted (not XML/JSON complaint) or not valid (not compliant with the corresponding schema), an **IRD_Receipt** message with StatusCode='BadRequest' is sent synchronously to the external system. • If the user requesting the ISR does not belong to the Distribution Service specified, an **IRD_Receipt** message with StatusCode='AccessDenied' is sent synchronously to the external system. • If the distribution service or vessel specified in request does not exist, an **IRD_Receipt** message with StatusCode='NotFound' is sent synchronously to the external system. • If the **IRD_Receipt** message is valid, StatusCode='OK' is sent synchronously to the external system.
3	For the valid **IRD_Request**, the IRD system creates and ISR and sends it asynchronously to the external system using an **ISR_Push** message using the Push ISR service. The HTTP response should be a 204 (No content) status code and an empty HTTP body – no SOAP envelope.
4	Upon receipt of the **ISR_Push** message, the external system should log and process it.

2.3 Data exchange mechanism – clarifications

2.3.1 Data Consumer/Subscriber Interface

Both ends act as nodes capable of processing SOAP or REST messages. The message types used are as follows:

- ISR_Push

2.3.2 Data Requestor Interface

Both ends act as nodes capable of processing SOAP or REST messages. The message types used are as follows:

- ISR_Request
- ISR_Receipt
- ISR_Push

For every request–response communication, a request/response exchange pattern is used between each SOAP/REST node where the SOAP/REST response message is delivered as HTTP response, using synchronous connection to the inbound request. The **ISR_Push** message is sent asynchronously to the end-point configured under the Distribution service.

3. Messages Structures and Business rules

3.1 ISR_Push message

3.1.1 Message structure

The **ISR_Push** message only includes the blocks of data that are configured under the corresponding distribution service.

SOAP Message:

Entities	*Occ*
Body	0-1
ReceiptId (xsd:int)	0-1
Blocks	1
Header	1
ReportId *(xsd:int)*	1
SentAt *(xsd:dateTime)*	1
VesselIdentification	1
CSDID *(xsd:long)*	0-1
IMO *(xsd:long)*	0-1
MMSI *(xsd:long)*	0-1
CallSign *(xsd:string)*	0-1
ShipName *(xsd:string)*	0-1
IRNumber *(xsd:string)*	0-1
Flag *(xsd:string)*	0-1
ShipType *(xsd:string)*	0-1
PositionReport	0-1
Source *(xsd:string)*	1-1
Originator *(xsd:string)*	1-1
DateAndTime *(xsd:dateTime)*	0-1
Latitude *(xsd:string)*	0-1
Longitude *(xsd:string)*	0-1
TrueHeading *(xsd:decimal)*	0-1
Heading *(xsd:decimal)*	0-1
Speed *(xsd:decimal)*	0-1
NavigationalStatus *(xsd:string)*	0-1
Length *(xsd:decimal)*	0-1
Breadth *(xsd:decimal)*	0-1
VoyageInformation	0-1
ProviderOfLastUpdate *(xsd:string)*	1
LastUpdateOn *(xsd:dateTime)*	1
ShipCallIDDeparture *(xsd:string)*	0-1
ShipCallIDArrival *(xsd:string)*	0-1
CallPurposeCode	0-1
BriefCargoDescription *(xsd:string)*	0-1
PreviousPortOfCall *(xsd:string)*	0-1
ATDFromPreviousPortOfCall *(xsd:string)*	0-1
ETDFromPreviousPortOfCall *(xsd:string)*	0-1
PortOfCall *(xsd:string)*	1
PositionInPortOfCall *(xsd:string)*	0-1

Entities	Occ
ETAToPortOfCall *(xsd:string)*	0-1
ATAToPortOfCall *(xsd:dateTime)*	0-1
ETDFromPortOfCall *(xsd:string)*	0-1
ATDFromPortOfCall *(xsd:string)*	0-1
NumberOfPersonsOnBoard *(xsd:int)*	0-1
HazmatOnBoard *(xsd:string)*	0-1
WasteDeliveryStatus *(xsd:string)*	0-1
CurrentShipSecurityLevel *(xsd:string)*	0-1
BunkersDetailsProvided *(xsd:string)*	0-1
SubsequentPortOfCall *(xsd:string)*	0-1
ETAToSubsequentPortOfCall *(xsd:string)*	0-1
IncidentReport *(ird:IncidentReportType)*	0-1
IRDateTime *(xsd:dateTime)*	1
IncidentID *(xsd:string)*	1
TypeOfIR *(xsd:string)*	1
LatestMRSReport *(ird:MRSReportType)*	0-1
DateAndTimeOfMRSReport *(xsd:dateTime)*	1
MRSIdentification *(xsd:string)*	1
CoastalStateName *(xsd:string)*	0-1
PortOfCall *(xsd:string)*	1
ETAToPortOfCall *(xsd:string)*	0-1
NumberOfPersonsOnBoard *(xsd:string)*	1
Latitude *(xsd:string)*	1
Longitude *(xsd:string)*	1
HazmatOnBoard *(xsd:string)*	1
ActiveExemptions	0-1
ExemptionDetails	1-n
ExemptionType *(xsd:string)*	0-1
CompanyName *(xsd:string)*	0-1
ValidFrom *(xsd:dateTime)*	0-1
ValidTo *(xsd:dateTime)*	0-1
Route	1-n
Port *(xsd:string)*	1
ExemptedWasteTypes	0-n
WasteCode *(xsd:string)*	1
WasteDescription *(xsd:string)*	0-1
ExemptionAppliesTo	0-n
Port *(xsd:string)*	1
ExemptedPortFacilities	0-n
PortFacilityLocode *(xsd:string)*	1
PortFacilityNumber *(xsd:string)*	1
Authority	1
Country *(xsd:string)*	1
AuthorityType *(xsd:string)*	1
AuthorityName *(xsd:string)*	1
Contact247	1
FirstName *(xsd:string)*	0-1
LastName *(xsd:string)*	0-1

Entities	Occ
Locode *(xsd:string)*	0-1
Phone *(xsd:string)*	0-1
Fax *(xsd:string)*	0-1
Email *(xsd:string)*	0-1
Last5MRS	0-1
MRS *(ird:MRSReportType)*	1-5
DateAndTimeOfMRSReport *(xsd:dateTime)*	1
MRSIdentification *(xsd:string)*	1
CoastalStateName *(xsd:string)*	0-1
PortOfCall *(xsd:string)*	1
ETAToPortOfCall *(xsd:string)*	0-1
NumberOfPersonsOnBoard *(xsd:int)*	1
Latitude *(xsd:string)*	1
Longitude *(xsd:string)*	1
HazmatOnBoard *(xsd:string)*	1
Last12MIncidents	0-1
Incidents *(ird:IncidentReportType)*	1-n
IRDateTime *(xsd:dateTime)*	1
IncidentID *(xsd:string)*	1
TypeOfIR *(xsd:string)*	1
VoyagePlan	0-1
RouteName *(xsd:string)*	1
VoyageID *(xsd:string)*	1
VesselMaxSpeed *(xsd:string)*	0-1
RouteStatus *(xsd:string)*	0-1
PortOfDeparture *(xsd:string)*	0-1
PortOfArrival *(xsd:string)*	0-1
NumberOfPersonsOnBoard *(xsd:int)*	0-1
Waypoints	2-n
WaypointID *(xsd:int)*	1
Revision *(xsd:int)*	0-1
WaypointName *(xsd:string)*	0-1
Latitude *(xsd:string)*	1
Longitude *(xsd:string)*	1
GeometryType *(xsd:string)*	0-1
ETA *(xsd:dateTime)*	0-1
Speed *(xsd:decimal)*	0-1
DraughtForward *(xsd:decimal)*	0-1
DraughtAt *(xsd:decimal)*	0-1

REST Message:

Attributes	Occ
receiptID *(integer)*	0-1
Blocks	1
Header	1
ReportId *(integer)*	1
SentAt *(string)*	1
VesselIdentification	1
CSDID *(long)*	0-1

Attributes			*Occ*
		IMO *(long)*	0-1
		MMSI *(long)*	0-1
		CallSign *(string)*	0-1
		ShipName *(string)*	0-1
		IRNumber *(string)*	0-1
		Flag *(string)*	0-1
		ShipType *(string)*	0-1
	PositionReport		0-1
		Source *(string)*	1-1
		Originator *(string)*	1-1
		DateAndTime *(string)*	0-1
		Latitude *(string)*	0-1
		Longitude *(string)*	0-1
		TrueHeading *(float)*	0-1
		Heading *(float)*	0-1
		Speed *(float)*	0-1
		NavigationalStatus *(string)*	0-1
		Length *(float)*	0-1
		Breadth *(float)*	0-1
	VoyageInformation		0-1
		ProviderOfLastUpdate *(string)*	1
		LastUpdateOn *(string)*	1
		ShipCallIDDeparture *(string)*	0-1
		ShipCallIDArrival *(string)*	0-1
		CallPurposeCode	0-1
		BriefCargoDescription *(string)*	0-1
		PreviousPortOfCall *(string)*	0-1
		ATDFromPreviousPortOfCall *(string)*	0-1
		ETDFromPreviousPortOfCall *(string)*	0-1
		PortOfCall *(string)*	1
		PositionInPortOfCall *(string)*	0-1
		ETAToPortOfCall *(string)*	0-1
		ATAToPortOfCall *(string)*	0-1
		ETDFromPortOfCall *(string)*	0-1
		ATDFromPortOfCall *(string)*	0-1
		NumberOfPersonsOnBoard *(integer)*	0-1
		HazmatOnBoard *(string)*	0-1
		WasteDeliveryStatus *(string)*	0-1
		CurrentShipSecurityLevel *(string)*	0-1
		BunkersDetailsProvided *(string)*	0-1
		SubsequentPortOfCall *(string)*	0-1
		ETAToSubsequentPortOfCall *(string)*	0-1
	IncidentReport		0-1
		IRDateTime *(string)*	1
		IncidentID *(string)*	1
		TypeOfIR *(string)*	1
	LatestMRSReport		0-1
		DateAndTimeOfMRSReport *(string)*	1

Attributes	*Occ*
MRSIdentification *(string)*	1
CoastalStateName *(string)*	0-1
PortOfCall *(string)*	1
ETAToPortOfCall *(string)*	0-1
NumberOfPersonsOnBoard *(integer)*	1
Latitude *(string)*	1
Longitude *(string)*	1
HazmatOnBoard *(string)*	1
ActiveExemptions	0-1
ExemptionDetails	1-n
ExemptionType *(string)*	0-1
CompanyName *(string)*	0-1
ValidFrom *(string)*	0-1
ValidTo *(string)*	0-1
Route	1-n
Port *(string)*	1
ExemptedWasteTypes	0-n
WasteCode *(string)*	1
WasteDescription *(string)*	0-1
ExemptionAppliesTo	0-n
Port *(string)*	1
ExemptedPortFacilities	0-n
PortFacilityLocode *(string)*	1
PortFacilityNumber *(string)*	1
Authority	1
Country *(string)*	1
AuthorityType *(string)*	1
AuthorityName *(string)*	1
Contact247	1
FirstName *(string)*	0-1
LastName *(string)*	0-1
Locode *(string)*	0-1
Phone *(string)*	0-1
Fax *(string)*	0-1
Email *(string)*	0-1
Last5MRS	0-1
MRS	1-5
DateAndTimeOfMRSReport *(string)*	1
MRSIdentification *(string)*	1
CoastalStateName *(string)*	0-1
PortOfCall *(string)*	1
ETAToPortOfCall *(string)*	0-1
NumberOfPersonsOnBoard *(integer)*	1
Latitude *(string)*	1
Longitude *(string)*	1
HazmatOnBoard *(string)*	1
Last12MIncidents	0-1
Incidents	1-n
IRDateTime *(string)*	1

Attributes			*Occ*
	IncidentID *(string)*		1
	TypeOfIR *(string)*		1
	VoyagePlan		0-1
		RouteName *(string)*	1
		VoyageID *(string)*	1
		VesselMaxSpeed *(string)*	0-1
		RouteStatus *(string)*	0-1
		DeparturePort *(string)*	0-1
		ArrivalPort *(string)*	0-1
		NumberOfPersonsOnBoard *(integer)*	0-1
		Waypoints	2-n
		WaypointID *(integer)*	1
		Revision *(integer)*	0-1
		WaypointName *(string)*	0-1
		Latitude *(string)*	1
		Longitude *(string)*	1
		GeometryType *(string)*	0-1
		ETA *(string)*	0-1
		Speed *(float)*	0-1
		DraughtForward *(float)*	0-1
		DraughtAt *(float)*	0-1

3.1.2 Business rules

The detailed definition of the attributes/ simple types as well as business rules concerning the syntax and business validation of simple types/ attributes is provided in Appendix A. The following table provides additional business rules concerning data elements/ attributes included in the message

No	Push_ISR attribute	Description
1	receiptId	If the **ISR_Push** message is sent following an **ISR_Request**, this element contains the value of the receiptID attribute from the **ISR_Receipt** message. If the **ISR_Push** message is sent following an automatic trigger (e.g. entry into an area), this attribute is not present.

3.1.3 Example

Example of an **ISR_Push** message in SOAP:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ird="http://ird.emsa.europa.eu/">
        <soapenv:Header/>
        <soapenv:Body>
                <ird:ISR>
                        <ird:ReceiptID>21</ird:ReceiptID>
                        <ird:Blocks>
                                <ird:Header>
                                        <ird:ReportID>7823</ird:ReportID>
                                        <ird:SentAt>2020-02-13 14:04:41.852</ird:SentAt>
                                </ird:Header>
                                <ird:VesselIdentification>
```

```
                                        <ird:CSDID>123</ird:CSDID>
                                        <ird:IMO>5424990</ird:IMO>
                                        <ird:MMSI>4582</ird:MMSI>
                                </ird:VesselIdentification>
                                <ird:PositionReport>
                                        <ird:Source>T-AIS</ird:Source>
                                        <ird:DateAndTime>2020-02-13T14:04:40Z</ird:DateAndTime>
                                        <ird:Latitude>71.02069</ird:Latitude>
                                        <ird:Longitude>23.8686</ird:Longitude>
                                        <ird:TrueHeading>0</ird:TrueHeading>
                                        <ird:Heading>193.4</ird:Heading>
                                        <ird:Speed>8</ird:Speed>
                                        <ird:NavigationalStatus>0</ird:NavigationalStatus>
                                </ird:PositionReport>
                        </ird:Blocks>
                </ird:ISR>
        </soapenv:Body>
</soapenv:Envelope>
```

Example of an **ISR_Push** message in REST:

```
{
        "ISRRequestID": "21",
        "Blocks": [{
                "Header": {
                        "ReceiptID": "7823",
                        "SentAt": "2020-02-13 14:04:41.852"
                },
                "VesselIdentification": {
                        "CSDID": "123",
                        "IMO": "5424990",
                        "MMSI": "4582"
                },
                "PositionReport": {
                        "Source": "T-AIS",
                        "DateAndTime": "2020-02-13T14:04:40Z",
                        "Latitude": "71.02069",
                        "Longitude": "23.8686",
                        "TrueHeading": "0",
                        "Heading": "193.4",
                        "Speed": "8",
                        "NavigationalStatus": "0"
                }]
        }
}
```

3.2 ISR_Request message

3.2.1 Message structure

SOAP Message:

Entities		*Occ*
Body		***1***
	distributionServiceId (xsd:int)	1
	vesselId (xsd:string)	1
	vesselIdType (xsd:string)	1

REST Message:

Attributes		*Occ*
	distributionServiceId (integer)	1
	vesselId (string)	1
	vesselIdType (string)	1

3.2.2 Business rules

The following table describes the applicable business rules.

No	ISR_Request attribute	Description
1	distributionServiceId	Unique identifier for a Distribution Service configured in the IRD
2	vesselId	Value of the vessel identifier
3	vesselIdType	Type of vessel identifier used in attribute VesselId. It must correspond to one of the following options: - IMO - MMSI - Call sign - CSDID - IR

3.2.3 Example

Example of an **ISR_Request** message in SOAP:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ird="http://ird.emsa.europa.eu/">
   <soapenv:Header/>
   <soapenv:Body>
      <ird:ISR_Request>
         <ird:distributionServiceId>123</ird:distributionServiceId>
         <ird:vesselId>5424990</ird:vesselId>
         <ird:vesselIdType>IMO</ird:vesselIdType>
      </ird:ISR_Request>
   </soapenv:Body>
</soapenv:Envelope>
```

Example of an **ISR_Request** message in REST:

```
{
        "distributionServiceId": 123,
        "vesselId": "5424990",
        "vesselIdType": "IMO"
}
```

3.3 ISR_Receipt message

The ISR_Receipt message is sent by the IRD to an external system to confirm the receipt and validation of an ISR_Request message.

3.3.1 Message structure

SOAP Message:

Entities		*Occ*
Header		1
	statusCode (xsd:string)	1
	statusMessage (xsd:string)	0-1
Body		0-1
	receiptId (xsd:int)	1

REST Message:

Attributes			*Occ*
	result (array)		0-1
		receiptId (integer)	1
	statusCode (string)		1
	statusMessage (string)		0-1

3.3.2 Business rules

The following table describes the applicable business rules.

No	ISR_Receipt attribute	Description
1	receiptId	Unique identifier generated for each ISR request message with statusCode=OK
2	statusCode	A Code representing the status of the request. Please refer to section 3.4.1 below.
3	statusMessage	Textual additional details regarding the status code

3.3.3 Example

Example of an **ISR_Receipt** message in SOAP:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ird="http://ird.emsa.europa.eu/">
        <soapenv:Header/>
        <soapenv:Body>
                <ird:ISR_Receipt>
                        <ird:Header>
```

```
                        <ird:statusCode>OK</ird:statusCode>
                    </ird:Header>
                    <ird:Body>
                        <ird:receiptId>21</ird:receiptId>
                    </ird:Body>
                </ird:ISR_Receipt >
            </soapenv:Body>
</soapenv:Envelope>
```

Example of an **ISR_Receipt** message in REST:

```
{
    "result": [
        {
            "receiptId": 21
        }
    ],
    "statusCode": "OK"
}
```

3.4 Status Codes and Status Messages

Every response message includes a status code with an optional status message. They are used to provide the result of the processing of a message by IRD or by the External system.

3.4.1 Status codes

A status code is provided in every response or receipt message in the *StatusCode* attribute of the *Header* element (in case of SOAP message) or in the response body (in case of REST message). It may have one of the following values:

Status code	Description
BadRequest	The message is not valid.
ServerError	The message has not been successfully processed due to a server problem (e.g. connection problem, database problem, application problem).
OK	The message has been successfully received or the information requested in the corresponding request message has been found (response messages).
NotFound	The information requested in the request message does not exist. This value may only be used by IRD in a response message – distribution services or vessel does not exist.
AccessDenied	The user account is not allowed to send the message or does not exist.
Unauthorized	The user account was not successfully authenticated

3.4.2 Status messages

Next to the *StatusCode* attribute, a corresponding *StatusMessage* attribute may be provided and used to give additional details regarding the status code.

As it is used for debugging, the status message should be provided in the English language.

Appendix A Attributes and simple type definitions

Element / Attribute	Data type	Length	Description	Messages(s) that include this element / attribute
ATAToPortOfCall	DT		Actual date and time of arrival at the port of call. Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm)	ISR_Push
ATDFromPortOfCall	DT		Actual date and time of departure from the port of call. Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm)	ISR_Push
ATDFromPreviousPortOfCall	DT		Actual date and time of departure from the previous port of call. Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm)	ISR_Push
AuthorityName	Text	1-100	Name of the reporting Authority or Authority granting the exemption	ISR_Push
AuthorityType	ENUM		Type of the Authority granting the exemption. Possible value: • **NCA** – National Competent Authority • **POR** – Port Authority • **OTH** - Other	ISR_Push
Breadth	Decimal		Ship width in metres	ISR_Push
BriefCargoDescription	Text		This is a short text giving an overview of cargo carried on board	ISR_Push
BunkersDetailsProvided	ENUM		Indication if information on the bunkers on board in the voyage to the port of call is available. Possible values: • YES • NO	ISR_Push
CallPurposeCode	ENUM		Primary purpose of the call defined using the EDIFACT codes (8025)	ISR_Push
CallSign	Text		Ship's call sign	ISR_Push
CoastalStateName	Text		Identification of coastal station receiving the report	ISR_Push
CompanyName	Text	1-70	Name of ship's operating company as defined in the ISM code	ISR_Push
Country	Text		Country name	ISR_Push
CSDID	Int		Unique identifier of the ship in EMSA's Central Ship Database	ISR_Push
CurrentShipSecurityLevel	ENUM		Ship's current security level according to the ISPS code. Possible values:	ISR_Push

			• **SL1** • **SL2** • **SL3**	
DateAndTime	DT		Timestamp of the voyage information. Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm)	ISR_Push
DateAndTimeOfMRSReport	DT		Date and time when vessel reported to MRS. Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm)	ISR_Push
distributionServiceId	Int		Distribution Service Identifier as defined by the IRD system	ISR_Request
DraughtAt	Decimal		Static aft draught in meters	ISR_Push
DraughtForward	Decimal		Static forward draught in metres	ISR_Push
Email	Text		Email address of the contact person	ISR_Push
ETA	DT		Estimated date and time of arrival at the port of call. Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm)	ISR_Push
ETAToPortOfCall	DT		Estimated date and time of arrival at the port of call. Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm)	ISR_Push
ETAToSubsequentPortOfCall	DT		Estimated date and time of arrival to the subsequent port of call. Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm)	ISR_Push
ETDFromPortOfCall	DT		Estimated date and time of departure from the port of call. Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm)	ISR_Push
ETDFromPreviousPortOfCall	DT		Estimated date and time of departure time from the previous port of call. Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm)	ISR_Push

ExemptionType	ENUM		Type of exemption granted to the ship. Possible value: • Pre-Arrival • Hazmat • Security • Waste • WasteNotification • WasteDeliveryWasteFees)	ISR_Push
Fax	Text	1-20	Fax number (country code included) of the contact person	ISR_Push
FirstName	Text	0-50	First name of the contact person	ISR_Push
Flag	Text		Flag of the ship recorded in the OVR	ISR_Push
GeometryType	ENUM		RL/GC indicator. Possible values: Loxodrome Orthodrome	ISR_Push
HazmatOnBoard	ENUM		Status code which indicates whether the ship carries dangerous or polluting goods. Possible value: • **Y** – Yes • **N** – No	ISR_Push
Heading	Decimal		Position heading	ISR_Push
IMO	Int		IMO number of the ship	ISR_Push
IncidentID	Text	1-20	Identification number of the Incident Report. Format: Country code +15 characters Country code: Alpha-2 (two-letters) in accordance with standard ISO 3166-1. Country code of the member state providing the Incident Report.	ISR_Push
IRDateTime	DT		Date and time when the Incident Report was sent. Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm)	ISR_Push
IRNumber	Text		Identification number of fishing vessel	ISR_Push
LastName	Text		Last name of the contact person	ISR_Push
LastUpdateOn	DT		Date and time when information was updated. Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm)	ISR_Push
Latitude	Text		Latitude in DMS format	ISR_Push
Length	Decimal		Ship’s length in metres	ISR_Push
Locode	Text		Location code of the contact person or company	ISR_Push
Longitude	Decimal		Longitude in DMS format	ISR_Push

MMSI	Int		MMSI number of the ship	ISR_Push
MRSIdentification	ENUM	1-15	Identification of the MRS. Possible values: • ADRIREP • BELTREP • BONIFREP • CALDOVREP • CANREP • COPREP • FINREP • GDANREP • GIBREP • GOFREP • GREENPOS • MANCHREP • OUESSREP • SOUNDREP • TRANSREP • WETREP • BAREP	ISR_Push
NavigationalStatus	Text		Navigational status provided by the AIS	ISR_Push
NumberOfPersonsOnBoard	Int		Number of persons on board the ship in the voyage to the port of call	ISR_Push
Originator	Text		Identification of country providing T-AIS data or service provider for S-AIS	ISR_Push
Phone	Text		Phone number (country code included) of the contact person	ISR_Push
Port	Text	1-5	Location code of port of the ship's last calls or scheduled route or exempted port	ISR_Push
PortFacilityLocode	Text		UN/LOCODE of the port facility	ISR_Push
PortFacilityNumber	Text	1-4	The last 4 digits of the port facility's code as in the IMO GISIS maritime security database	ISR_Push
PortOfArrival	Text		Route's arrival Port	ISR_Push
PortOfCall	Text		Port that the ship is heading to	ISR_Push
PortOfDeparture	Text		Route's departure Port	ISR_Push
PositionInPortOfCall	Text		Identification of position in port	ISR_Push
PreviousPortOfCall	Text		Port where the ship is coming from	ISR_Push
ProviderOfLastUpdate	Text	3-32	Identification of the user providing the latest update	ISR_Push
receiptId	Int		Unique identifier generated for each ISR request message with statusCode=OK	ISR_Receipt ISR_Push
ReportId	Int		Unique identifier of the ISR provided by the IRD when creating the ISR. The updates to ISR (if any) will include the same ID	ISR_Push
Revision	Int		Allows to determine modification of waypoint since the entry of the data	ISR_Push
RouteName	Text		Name of the route	ISR_Push
RouteStatus	ENUM		Status of the route	ISR_Push

			1 - Original 2 - Planned_for_voyage 3 - Optimized 4 - Cross_Checked 5 - Safety_Checked 6 - Approved 7 - Used_for_monitoring 8 - Inactive	
SentAt	DT		Date and time when the report is generated and sent. Format "YYYY-MM-DDThh:mm:ssTZD" where TZD = time zone designator (Z or +hh:mm or -hh:mm)	ISR_Push
ShipCallIDArrival	Text		ShipCallID of the port of call	ISR_Push
ShipCallIDDeparture	Text		ShipCallID of the previous port call	ISR_Push
ShipName	Text		Ship Name	ISR_Push
ShipType	Text		Ship type as used for Port State Control	ISR_Push
Source	ENUM		T-AIS or S-AIS	ISR_Push
Speed	Decimal		Ship speed reported in AIS	ISR_Push
Status	Text		A description the ISR request status.	ISR_Receipt
statusCode	Text		Global status code. Refer to Status Codes and Status Messages	ISR_Receipt
SubsequentPortOfCall	Text		Subsequent port that the vessel is going to after the port of call	ISR_Push
TrueHeading	Decimal		Ship heading reported in AIS	ISR_Push
TypeOfIR	ENUM		Type of the Incident Report. Possible values: • SITREP • POLREP • Waste • LostFoundContainers • Others • FailedNotification • VTSRulesInfringement • BannedShip • InsuranceFailure • PilotOrPortReport	ISR_Push
ValidFrom	DT		Date since the exemption is valid. Format "YYYY-MM-DDThh:mm:ssTZD" where TZD = time zone designator (Z or +hh:mm or -hh:mm)	ISR_Push
ValidTo	DT		Date until which the exemption is valid. Format "YYYY-MM-DDThh:mm:ssTZD" where TZD =	ISR_Push

			time zone designator (Z or +hh:mm or -hh:mm)	
vesselId	Text		Ship identifier value. It should be coupled with vesselTypeId to identity uniquely a vessel	ISR_Request
vesselIdType	ENUM		Type of ship identifier. Possible values: • IMO • MMSI • CallSign • CSDID • IR	ISR_Request
VesselMaxSpeed	Decimal		Ship's maximum speed in knots	ISR_Push
VoyageID	Text		Identification number of a voyage in a voyage plan	ISR_Push
WasteCode	Text	1-4	Code identifying the type of waste. For the code list, please refer to the SafeSeaNet Messaging Reference Guide	ISR_Push
WasteDeliveryStatus	ENUM		Indication if ship intends to deliver all, some or none of its waste in the port of call. Possible Values: • All • SomeNone	ISR_Push
WasteDescription	Text		Optional free text description of the waste type.	ISR_Push
WaypointID	Int		Unique waypoint identifier	ISR_Push
WaypointName	Text		Waypoint name	ISR_Push

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