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REVISED IMO COMPENDIUM ON FACILITATION AND ELECTRONIC BUSINESS

- 1 The Facilitation Committee, at its forty-third session (8 to 12 April 2019), approved the *Revised IMO Compendium on facilitation and electronic business*, as set out in the annex.
- 2 The Committee recalled that this revised Compendium refers to the data elements related to the FAL Convention.
- 3 The Committee agreed to keep the Compendium under review and further development, including in relation to an expanded role into data elements beyond those mandated by the FAL Convention.
- 4 Member Governments are invited to bring the Compendium to the attention of all parties concerned.
- 5 Member Governments, international organizations and non-governmental organizations with consultative status are also invited to bring to the attention of the Committee, at the earliest opportunity, the results of the experience gained from the use of the Compendium for consideration of action to be taken.
- 6 This circular revokes FAL.5/Circ.40 issued on 4 July 2013. Any reference to FAL.5/Circ.40 and its corrigenda should be read as reference to the present circular.



ANNEX

REVISED IMO COMPENDIUM ON FACILITATION AND ELECTRONIC BUSINESS

Contents

| Section 1 | Purpose and use | 2 |
|-------------|--|---------|
| Α | Purpose | 2 |
| В | Electronic data submission and collection | 4 |
| C | Information security | 5 |
| Section 2 | The IMO Data Set | 6 |
| Α | Standard IMO data elements | 6 |
| В | Using the IMO data set | 6 |
| Section 3 | The IMO Reference Data Model | C |
| Α | Data structure | (|
| В | Data structure business names | 2 |
| Section 4 | Implementation business rules | 6 |
| Α | Business rules | 6 |
| Annex 1: V | Vorld Customs Organization (WCO) Data Mapping | 10 |
| Annex 2: L | Jnited Nations Economic Commission for Europe (UNECE) Data Mapp | ing .10 |
| Annex 3: lı | nternational Organization for Standardization (ISO) Data Mapping | 10 |

Section 1 Purpose and use

A Purpose

- 1.1 The Compendium on Facilitation and Electronic Business (Compendium) serves as a reference manual for creating and harmonizing the systems needed to support transmission, receipt and response of information required for the arrival, stay and departure of the ship, persons and cargo via electronic data exchange, namely the following declarations:
 - .1 General Declaration;
 - .2 Cargo Declaration;
 - .3 Ship's Stores Declaration;
 - .4 Crew's Effects Declaration;
 - .5 Crew List;
 - .6 Passenger List;
 - .7 Dangerous Goods Manifest;
 - .8 Security-related information as required under SOLAS regulation XI-2/9.2.2; and
 - .9 Advance Notification for Waste Delivery to Port Reception Facilities.
- 1.2 In the Compendium, the Facilitation Committee constructs the IMO Data Set (see section 2) to identify and define all of the data elements related to reporting information requirements and the IMO Reference Data Model (see section 3) to establish the underlying hierarchical data structure used in electronic data exchange.
- 1.3 The IMO Data Set combined with the IMO Reference Data Model promote harmonization among the relevant international standards used for electronic business from the World Customs Organization (WCO), the United Nations Economic Commission for Europe (UNECE), the International Organization for Standardization (ISO TC 8) and other organizations. Figure 1 illustrates the flow of reporting data and the interaction of the international standards. Harmonization stimulates implementation of the single window concept as a high-level priority of the Organization and supports interoperability among single window systems. Single window processes enhance efficient international trade by simplifying communications among stakeholders and creating an electronic information environment that promotes accountability, transparency and informed decision-making.

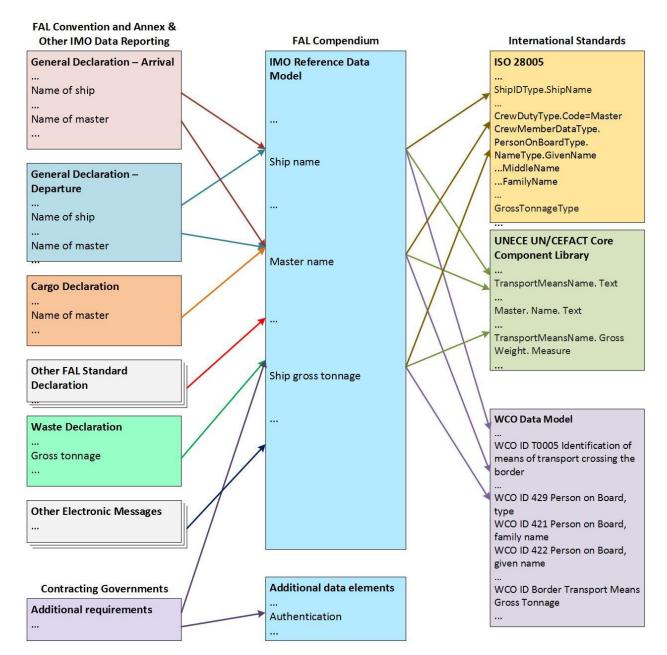


Figure 1: Relationships among the FAL Convention, the FAL Compendium and International Standards

1.4 The Facilitation Committee standardizes the nature and scope of information to be submitted and processed as required by the annex to the Convention on Facilitation of International Maritime Traffic, 1965 (Convention). The Maritime Safety Committee (MSC) standardizes the security-related information submitted as required in SOLAS regulation XI-2/9.2.2 through MSC/Circ.1305, Revised guidance to masters, companies and duly authorized officers on the requirements relating to the submission of security-related information prior to the entry of a ship into port. The Marine Environmental Protection Committee (MEPC) standardizes the information submitted for waste delivery in port through MEPC.1/Circ.834/Rev.1, appendix 2, Standard format of the Advance Notification Form for waste delivery to port reception facilities. The Compendium is a tool for efficient, electronic transmission of all this vital information in a way intended to minimize the burden on shippers, crews, agents, port authorities and other stakeholders.

- 1.5 Annexes 1 to 3 explain the mapping of the IMO Data Set and IMO Reference Data Model to the relevant international standards.
- 1.6 The Compendium does not serve as a reference manual for transmission and processing of ship, person and cargo information by facsimile, email and other means independent from the common standard data models used for electronic business.

B Electronic data submission and collection

- 1.7 The Organization identifies electronic data exchange as the preferred method of communication through the annex to the Convention. This Compendium promotes and supports electronic data exchange conducted using standardized data models and their implementation guidelines.
- 1.8 Electronic business has clear, quantifiable benefits over a paper-based environment in most cases. These globally accepted benefits led to the requirements for electronic reporting in the annex to the Convention. The holistic value of electronic data exchange is an equally important part of the philosophy promoted in this Compendium. The Data-Knowledge-Information-Wisdom (DIKW) pyramid¹ demonstrates this concept. Figure 2 illustrates how the data submitted through electronic data exchange leads to wisdom, defined for the purposes of this Compendium as the willingness and ability to take the most appropriate action based on what is known. That is, data leads to good decision-making by the port authority, Administration or other organization that receives the data. This decision-making could relate to a range of topics beyond the usage in the Convention, such as targeting ships for port State control examinations, assigning resources, identifying trade trends and developing public policy.

Values
WISDOM
Structure
KNOWLEDGE
INFORMATION
DATA

1.9 Figure 2 illustrates that applying definitions to data gives meaning and transforms data into information. Section 2 of this Compendium standardizes definitions of the data elements used in the annex to the Convention. Similarly, applying structures reveals logical relationships and transforms information into knowledge. Section 3 of this Compendium standardizes the structure of the data elements. Lastly, values transform knowledge into the wisdom used to identify the most appropriate actions that support the data recipient's goals.

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Ackoff, R. (1989). From data to wisdom. Journal of Applied Systems Analysis, 16, 3-9.

- 1.10 Common definitions promote harmonization, ordering information with common structures promotes interoperability, and directing knowledge with common values creates communities with shared goals. These communities might be the agencies in an Administration, collections of ports, or regional and international groups. Harmonization, interoperability and community are crucial to the Organization's goals of leveraging technology, minimizing burdens on mariners, promoting implementation of the single window and helping stakeholders meet international standards.
- 1.11 A paper-based communications system could accomplish all of the processes described above. However, systems for electronic data exchange are inherently more efficient, continue to evolve and have a much greater potential for facilitation opportunities. Through this Compendium, the Organization seeks to facilitate trade by helping standardize electronic business processes used to comply with the Organization's data submission requirements while recognizing the responsibility to balance those requirements with the benefits they provide.

C Information security

- 1.12 Ship reporting necessitates electronic transmission of sensitive, private and proprietary information including, but not limited to, ship location and destination, cargo types and amounts, passenger names and identity data, and security-related information. This type of information could provide valuable intelligence for unauthorized persons seeking to conduct illegal or malicious acts.
- 1.13 Companies, ships' crews, agents, and port and Administration officials share the responsibilities to protect ship reporting information described in this Compendium. All persons involved in transmitting, receiving, responding, storing, analysing and protecting ship reporting information should be fluent in the information security and cyber-risk management techniques and requirements in, but not limited to:
 - .1 national laws and regulations;
 - .2 International Convention for the Safety of Life at Sea, as amended;
 - .3 International Ship and Port Facility Security Code;
 - .4 IMO MSC-FAL.1/Circ.1 Securing and Facilitating International Trade;
 - .5 IMO MSC-FAL.1/Circ.3 Guidelines on Maritime Cyber Risk Management; and
 - .6 accepted national and international industry standards on information security.²

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Such as the World Customs Organization SAFE Framework of Standards and the International Organization for Standardization 28000 series of standards.

Section 2 The IMO Data Set

A Standard IMO data elements

- 2.1 Table 1 shows the Organization's definitions for the data elements of the IMO Data Set. The Organization documents these definitions in the Compendium to promote harmonization among different data models and to help ensure accurate transmission, receipt and response of electronic data exchange. Each data element receives a unique identifier for reference purposes. In addition, table 1 shows the correlation between each data element and the legacy paper forms used to record the information in paragraph 1.1.4 with a notation of the relevant form cell number.
- Apping legacy paper forms to an electronic data exchange environment necessitates a number of decisions to represent and utilize the data most efficiently. For example, in the legacy paper forms, designed for completion by hand, several data elements often populate a single cell, such as the numerous characteristics or markings of a particular cargo. In the electronic environment, each data element is discriminated. In addition, paper forms do not accommodate the efficiency of using attributes to distinguish different types of similar data. For instance, a person's possible attributes include agent, crewmember, security officer or passenger. Furthermore, repeated information, such as the IMO number, ship name, ship type, and arrival time and date, can be stored and repeated in electronic data exchange, whereas it must be re-entered in each case on a paper form.
- 2.3 The IMO Data Set includes some data elements not found on the legacy paper forms but which are required for electronic data exchange, such as the message header date-time stamp, unique identifiers and other requirements for message tracking and machine-to-machine communications.

B Using the IMO data set

- 2.4 The *Change Indicator* column shows the status of the data element in that row to help maintain the history of changes to the data set. The change indicator meanings are:
 - .1 a plus sign (+) for an addition to the data set since the last edition;
 - .2 a minus sign (-) for a deletion from the data set since the last edition; and
 - .3 a hash sign (*) for changes to a data element since the last edition.
- 2.5 The *Data Number* column shows the unique number assigned to each data element for reference. The "IMO" prefix identifies the source of the data element and distinguishes it from other data model elements.
- 2.6 The Data Element column shows the standard name of each data element.
- 2.7 The *Definition* column shows the standard definition of each data element. Note, these definitions seek to satisfy technical details. Therefore, instead of the traditional definition, some definitions refer to the information location so that the system or software designer can determine the specific format detail requirements.
- 2.8 The Correlation to IMO Standard Reporting columns show the location of each data element in the traditional paper versions of the FAL declarations by cell number or other reference. An "X" in this column indicates a data element not described in the annex to the Convention or other sources but commonly used in electronic data exchange. Dark grey cell

shading identifies a data element needed to transmit electronic messages but not used in the traditional paper versions of the FAL declarations. Light grey cell shading identifies a data element not included in the data structure shown in section 3 because it derives from a combination of other data elements.

- 2.9 The *Format* column shows the required format of each data element for electronic data exchange purposes.
- 2.10 The format indicator meanings are:
 - a alphabetic characters
 - n numeric characters
 - an alphanumeric characters
 - a3 3 alphabetic characters, fixed length
 - n3 3 numeric characters, fixed length
 - an3 3 alphanumeric characters, fixed length
 - a..3 up to 3 alphabetic characters
 - n..3 up to 3 numeric characters
 - an..3 up to 3 alphanumeric characters
 - n..11,3 up to 11 numeric characters of which 3 positions for a decimal

Examples for a n..11,3 type:

| 12345678.123 | (Valid) |
|---------------|---|
| 123456789.123 | (Invalid – too many digits before decimal point and too many digits |
| | in total) |
| 12345678.1234 | (Invalid - too many digits after decimal point and too many digits |
| | in total) |

Numerical fields should be either a cardinal value (integer value), or a decimal value. The decimal separator is the decimal point ".", and no other symbols are permitted as a decimal separator. The decimal notation (with the decimal point) should only be used to indicate required precision. Triad separators, such as a comma, should not be used.

- 2.11 The *Code Lists* column identifies the source of specific standardized codes for the data element in that row. For example, ISO standard 3166-1, Codes for the representation of names of countries and their subdivisions, contains the internationally agreed list of two-character country codes. In some cases, cells in this column contain the phrase "To be defined" to identify a standardized code list that is envisioned in future use.
- 2.12 The *Business Rule* column identifies recommended procedures for satisfying specific data element formats and requirements by referencing a relevant business rule listed in section 4.
- 2.13 The link https://www.unece.org/cefact/recommendations/rec_index.html leads to the list of a list of UNECE trade facilitation recommendations.

Table 1: IMO Data Elements³

| | | | | | | Cor | relatior | to IMO S | Standard | l Forms | | | | | |
|------------------|----------------|---------------------------------|--|---------------------|-------------------|--------------------------|----------------------------|-----------|----------------|--------------------------|-----------------|---|--------|--|----------------|
| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0001 | Agent City | The city address of the referenced agent at port. | 8 | | | | | | 16 | 5 | | an35 | | |
| | IMO0002 | Agent Contact Name | The agent's employee contact name. | 8 | 10 | 12 | 9 | 18 | 19 | 16 | 5 | | an70 | | BR 23 |
| | IMO0003 | Agent country code | A code representing the country address of the referenced agent at port. | 8 | | | | | | 16 | 5 | | a2 | EDIFACT codes (3207) - ISO 3166-1 alpha-2 code | |
| | IMO0004 | Agent country sub-division name | The country sub-division of the referenced agent at port. | 8 | | | | | | 16 | 5 | | an35 | | |
| | IMO0006 | Agent email | The email address for the referenced agent at port. | 8 | | | | | | 16 | 5 | | an50 | | |
| | IMO0007 | Agent identification number | The recognized identification number used by the ship's agent at the port of notification. | 8 | 10 | 12 | 9 | 18 | 19 | 16 | 5 | | an17 | | |
| | IMO0008 | Agent landline number | The landline telephone number for the referenced agent at port. | 8 | | | | | | 16 | 5 | | an50 | | |
| | IMO0009 | Agent mobile number | The mobile number for the referenced agent at port. | 8 | | | | | | 16 | 5 | | an50 | | |

For technical and consistency reasons, the text in the table is in English only. Refer to section 2.4 to 2.13 for column heading descriptions.

| | | | | | | Cor | relatio | n to IMO S | Standard | Forms | | | | | |
|------------------|----------------|---|--|---------------------|-------------------|--------------------------|----------------------------|-------------|----------------|--------------------------|-----------------|---|--------|----------------------|----------------|
| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0010 | Agent name | The name of the agent at the port of arrival. | 8 | 10 | 12 | 9 | 18 | 19 | 16 | 5 | | an70 | | |
| | IMO0011 | Agent postcode | An alphanumerical code representing the postal area of the referenced agent at port. | 8 | | | | | | 16 | 5 | | an9 | | |
| | IMO0012 | Agent street and number/P.O. Box | The postal delivery point such as street and number or post office box of the referenced agent at port. | 8 | | | | | | 16 | 5 | | an256 | | |
| | IMO0013 | Arrival/ departure code | A code in the message to show whether the information is submitted for the ship arrival or departure. | Tick Box | Tick Box | Tick Box | | Tick Box | Tick Box | | | | a1 | A or D | |
| | IMO0014 | Authentication date | The date of authentication. | 23 | 10 | 12 | 9 | 18 | 19 | 16.1 | 6.5 | Page 2 | an35 | | |
| | IMO0015 | Authenticator location | The location of the person when submitting the security-related information. | | | | | | | | 6.4 | | an17 | UNLOCODE or 'At Sea' | |
| | IMO0016 | Authenticator name | The name of the person attesting to the validity of the transmitted information. | 23 | 10 | 12 | 9 | 18 | 19 | 16 | 6.1 | Page 2 | an70 | | BR 23 |
| | IMO0017 | Authenticator party identification number | An identifying number, such as an agent identifier, of the party attesting to the validity of the transmitted information. | Х | X | Х | X | X | X | X | X | X | an17 | | |

| | | | | | | Cor | relation | n to IMO S | Standard | Forms | ; | | | | |
|------------------|----------------|---|--|---------------------|-------------------|--------------------------|----------------------------|------------|----------------|--------------------------|-----------------|---|--------|---|----------------------------------|
| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0019 | Cargo brief description | A description of the type of cargo carried on the ship in general terms. | 12 | | | | | | | 3.5 | | an256 | | |
| | IMO0021 | Transport equipment identification number | Marks (letters and/or numbers) which identify a transport equipment (e.g. containers, semi-trailers, swap bodies). | | 6 | | | | | 7 | | | an17 | For containers this shall be the identification code as defined in ISO 6346. | |
| | IMO0022 | Cargo item description of goods | A description of the referenced packaged cargo. | | 7 | | | | | | | | an256 | | |
| | IMO0023 | Cargo item gross volume | A measure of the gross volume, normally calculated by multiplying the maximum length, width and height of the cargo item. | | 9 | | | | | | | | n16,6 | | BR 03 BR 04 BR 09 BR 18 |
| | IMO0024 | Cargo item gross weight | The combined weight or mass of the referenced packaged cargo and its packaging from the shipping data. | | 8 | | | | | | | | n16,6 | | BR 02 BR 03 BR 09 BR 18 |
| | IMO0025 | Cargo item HS code | The standardized, international commodity code from the Harmonized Commodity Description and Coding System (HS) for the packaged cargo being reported. | | 7 | | | | | | | | an18 | | |

| | | | | | | Cor | relation | n to IMO S | Standard | Forms | ; | | | | |
|------------------|----------------|---|---|---------------------|-------------------|--------------------------|----------------------------|------------|----------------|--------------------------|-----------------|---|--------|--|----------------|
| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0026 | Cargo item marks and numbers | An alphanumeric or symbolic identifier assigned by the shipper as a means to track cargo not carried in bulk. | | 6 | | | | | 7 | | | an512 | | |
| | IMO0028 | Cargo item number of packages | A count of the type of package reported for the referenced cargo. | | 7 | | | | | | | | n8 | | BR 03 BR 09 |
| | IMO0029 | Cargo item package type, coded | A code representing the type of package used for the referenced cargo. | | 7 | | | | | | | | an2 | EDIFACT codes (7065) = UN/ECE Recommendation 21 Annex VI | |
| | IMO0031 | IMO Company number | The unique company identification number shown in the Continuous Synopsis Record (CSR). | | | | | | | | 1.10 | | an17 | | |
| | IMO0032 | IMO Company name | The name of the Company shown in the Continuous Synopsis Record (CSR). | | | | | | | | 1.9 | 1.5 | an70 | | |
| | IMO0033 | Company security officer email | The contact email address for the company security officer shown in the ship security plan. | | | | | | | | 1.11 | | an50 | | |
| | IMO0034 | Company security officer landline number | The contact landline number for the company security officer shown in the ship security plan. | | | | | | | | 1.11 | | an50 | | |
| | IMO0035 | Company security officer mobile number | The contact mobile number for the company security officer shown in the ship security plan. | | | | | | | | 1.11 | | an50 | | |

| | | | | | | Cor | relation | to IMO S | tandard | Forms | ; | | | | |
|------------------|----------------|-------------------------------------|---|---------------------|-------------------|--------------------------|----------------------------|-----------|----------------|--------------------------|-----------------|---|--------|---------------|----------------------------------|
| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0036 | Company security officer name | The name of the company security officer shown in the ship security plan. | | | | | | | | 1.11 | | an70 | | BR 23 |
| | IMO0037 | Crew effect description, coded | A code representing the type of the referenced crew's effects. | | | | 7 | | | | | | an3 | to be defined | |
| | IMO0039 | Crew effect quantity onboard | The quantity or count of the type of the referenced crew's effects. | | | | 7 | | | | | | n16,6 | | BR 03 BR 05 BR 09 BR 18 |
| | IMO0040 | Crew effects description | A description of the type of the referenced crew's effects. | | | | 7 | | | | | | an256 | | |
| | IMO0041 | Crew effects sequence number | A number representing the order of the referenced crew's effects in a list. | | | | 3 | | | | | | n5 | | BR 09 |
| | IMO0042 | Crewmember rank or rating name | The description of the referenced crewmember's rank or rating on the ship. | | | | 6 | 9 | | | | | an70 | | |
| | IMO0043 | Crewmember rank or rating, coded | A code representing the referenced crewmember's rank or rating on the ship. | | | | 6 | 9 | | | | | an3 | to be defined | |
| | IMO0044 | Person on board sequence number | A number indicating the order of the referenced person in a list. | | | | | 6 | | | | | n5 | | BR 09 |

| | | | | | | Cor | relatior | n to IMO S | Standard | Forms | 5 | | | | |
|------------------|----------------|---|--|---------------------|-------------------|--------------------------|----------------------------|------------|----------------|--------------------------|-----------------|---|--------|--|-------------------------|
| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0045 | Stowage position onboard | The position or place where goods such as dangerous goods are stored on board the ship. | | | | | | | 5 | | | an35 | | BR 11 |
| | IMO0046 | Dangerous goods carried indicator | A yes/no indicator whether the ship is carrying any dangerous goods. | | | | | | | | 3.5.1 | | n1 | yes/no indicator (1=yes, 0=no) | |
| | IMO0047 | Dangerous goods EmS number | The emergency schedule identified in the IMO EmS Guide – Emergency Response Procedures for Ships Carrying Dangerous Goods. | | | | | | | 15 | | | an6 | Comprises 2 values; 1 for spillage and 1 for fire. Possible values spillage: S-A to S-Z. Possible values fire: F-A to F-Z. | |
| | IMO0048 | Dangerous goods flashpoint | The flashpoint of the referenced dangerous goods according to the IMO IMDG Code expressed in degrees Celsius or Fahrenheit. | | | | | | | 12 | | | n8,2 | | BR 03 BR 09 BR 18 |
| | IMO0049 | Dangerous goods IMO hazard class | The class of the referenced dangerous goods from the IMO Hazard Class. | | | | | | | 10 | | | an7 | | |
| | IMO0051 | Dangerous goods marine pollutant type, coded | A code representing the type of marine pollutant properties for the referenced dangerous goods from the IMO IMDG Code or IBC Code / MARPOL Convention. | | | | | | | 12 | | | an3 | MARPOL (as defined in IMDG and IBC) | |

| | | | | | | Cor | relation | n to IMO S | tandard | Forms | 3 | | | | |
|------------------|----------------|--|---|---------------------|-------------------|--------------------------|----------------------------|------------|----------------|--------------------------|-----------------|---|--------|---------------|----------------------------------|
| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0052 | Dangerous goods mass | The mass of the referenced dangerous goods. | | | | | | | 14 | | | n16,6 | | BR 03 BR 09 BR 16 BR 18 |
| | IMO0053 | Dangerous goods number of packages | The count of the number of packages of the referenced dangerous goods. | | | | | | | 13 | | | n8 | | |
| | IMO0054 | Dangerous goods packing group | The packing group according to the UN Recommendations on the Transport of Dangerous Goods and IMO IMDG Code. | | | | | | | 11 | | | an3 | | |
| | IMO0055 | Dangerous goods proper shipping name | The proper shipping name for goods under IMDG Code, or the product name for goods under IBC Code and IGC Code, or the bulk cargo shipping name for goods under IMSBC Code, or the name of oil for goods under Annex I to the MARPOL Convention. | | | | | | | 9 | | | an256 | | |
| | IMO0056 | Dangerous goods shipper's reference number | A number assigned by the shipper to track the referenced dangerous goods. | | | | | | | 6 | | | an70 | | |
| | IMO0058 | Dangerous goods subsidiary risks, coded | Any risk in addition to the class of the referenced dangerous goods according to the IMO IMDG Code. | | | | | | | 10 | | | an4 | To be defined | |

| | | | | | | Cor | relatior | n to IMO S | tandard | Forms | 5 | | | | |
|------------------|----------------|---|---|---------------------|-------------------|--------------------------|----------------------------|------------|----------------|--------------------------|-----------------|---|--------|------------|---|
| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0059 | Dangerous goods technical specifications | The recognized chemical or biological name or other name currently used for the referenced dangerous goods. | | | | | | | 9 | | | an256 | | |
| | IMO0060 | Dangerous goods UNDG number | United Nations Dangerous Goods Identifier (UNDG) assigned by the UN Sub-Committee of Experts on the Transport of Dangerous Goods and shown in the IMO IMDG. | | | | | | | 8 | | | n4 | UNDG Code | |
| | IMO0061 | Dangerous goods volume | The volume of the referenced dangerous goods. | | | | | | | 14 | | | n16,6 | | BR 03 BR 09 BR 14 BR 17 BR 18 |
| | IMO0063 | Date and time of arrival - actual | The date and time the ship arrives at the port of arrival. | 3 | | 3 | | 3 | 3 | | 2.2 | 2.2 | an35 | | BR 01 |
| | IMO0064 | Date and time of arrival - estimated | The date and time the ship is estimated to arrive at the port of arrival. | 3 | | 3 | | 3 | 3 | | 2.2 | 2.2 | an35 | | BR 01 |
| | IMO0065 | Date and time of departure - actual | The date and time the ship departs from the port of departure. | 3 | | 3 | | 3 | 3 | | | 2.3 | an35 | | BR 01 |
| | IMO0066 | Date and time of departure - estimated | The date and time the ship is estimated to depart from the port of departure. | 3 | | 3 | | 3 | 3 | | | 2.3 | an35 | | BR 01 |

| | | | | | | Cor | relation | n to IMO S | tandard | Forms | ; | | | | |
|------------------|----------------|--|--|---------------------|-------------------|--------------------------|----------------------------|------------|----------------|--------------------------|-----------------|---|--------|-----------------------------------|----------------|
| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0067 | ISSC status, coded | An indicator of whether the ship has a valid Interim International Ship Security Certificate or valid International Ship Security Certificate. | | | | | | | | 3.1 | | n1 | yes/no indicator (1=yes, 0=no) | |
| | IMO0068 | Reason why ship has no valid ISSC or interim ISSC | The explanation of why the ship is not provided with a valid ISSC or a valid interim ISSC. | | | | | | | | 3.1.2 | | an512 | | BR 15 |
| | IMO0069 | Reason why ship has no valid ISSC or interim ISSC, coded | A coded explanation of why the ship is not provided with a valid ISSC or a valid interim ISSC. | | | | | | | | 3.1.2 | | an3 | To be defined | BR 15 |
| | IMO0070 | ISSC contracting Government code | A code representing the nation that issued the ISSC or Interim ISSC. | | | | | | | | 3.1.1 | | a2 | ISO 3166-1 alpha-2 | |
| | IMO0071 | ISSC expiry date | The expiry date shown on the ISSC or Interim ISSC. | | | | | | | | 3.1.1 | | an35 | | |
| | IMO0075 | Last port of call name | The name and country of the port immediately previous to the port of arrival. | 6 | | 5 | | 5 | | | | | an256 | | BR 21 |
| | IMO0076 | Last port of call, coded | The code representing the port immediately previous to the port of arrival. | 6 | | 5 | | 5 | | | | | an5 | UN/LOCODE | |

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| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0077 | Measurement unit, coded | A code representing the units of measured for a referenced quantity on board, such as crew's effects, ship's stores, and cargo. | | 7 8 9 | 6 9 | 7 | | | 12 13 14 | | 3 Page 2 | an3 | EDIFACT codes (6411) = UN/ECE Recommendation 20 | |
| | IMO0078 | Message Date Time | The date and time the message is transmitted. | | | | | | | | | | an35 | | BR 01 |
| | IMO0082 | Message sender identifier | The identifier of the party transmitting the message. | | | | | | | | | | an17 | | |
| | IMO0083 | Name of master | The name of the person in charge of the ship. | 5 | 4 | | | | | | | | an70 | | BR 23 |
| | IMO0084 | Next port of call, coded | The port immediately subsequent to the port of departure. | 6 | | 5 | | | | | | 2.5 | an5 | UN/LOCODE | |
| | IMO0085 | Next port of call, name | The name and country of the port immediately subsequent to the port of departure. | 6 | | 5 | | | | | | 2.5 | an256 | | BR 21 |
| | IMO0086 | Number of crew | The count of persons actually employed for duties on board during a voyage in the working or service of a ship and included in the crew list. | 13 | | | | | | | | | n4 | | BR 03 BR 09 |
| | IMO0087 | Number of passengers | The count of persons on board the ship who are passengers as defined by SOLAS. | 14 | | | | | | | | | n4 | | BR 03 BR 09 |

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| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0088 | Number of persons on board | The total number of persons on board the ship including crew and passengers. | | | 6 | | | | | | | n4 | | BR 03 BR 09 |
| | IMO0089 | Passenger in transit indicator | A "yes/no" indicator of whether the referenced person is in transit to a foreign country. | | | | | | 18 | | | | n1 | yes/no indicator (1=yes, 0=no) | |
| | IMO0091 | Passenger port of embarkation, coded | The code representing the port from which the referenced person embarked the ship. | | | | | | 15 | | | | an5 | UN/LOCODE | |
| | IMO0092 | Passenger port of disembarkation, name | The name of the port from which referenced passenger plans to disembark. | | | | | | 17 | | | | an256 | | BR 21 |
| | IMO0093 | Passenger port of disembarkation, coded | The code representing the port from which the referenced person plans to disembark the ship. | | | | | | 17 | | | | an5 | UN/LOCODE | |
| | IMO0094 | Passenger port of embarkation, name | The name of the port from which referenced passenger embarked. | | | | | | 15 | | | | an256 | | BR 21 |
| | IMO0095 | Passenger visa number | The unique number assigned to the referenced person's visa by the issuing nation. | | | | | | 16 | | | | an70 | | |

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| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0096 | Person country of birth, coded | The code representing the referenced person's country of birth as shown on the person's identity document. | | | | | 12 | 9 | | | | a2 | ISO 3166-1 alpha-2 code | BR 20 |
| | IMO0097 | Person date of birth | The referenced person's date of birth as shown on the person's identity document. | | | | | 11 | 8 | | | | an35 | | |
| | IMO0098 | Person family name | The family name of the referenced person, such as a crewmember or passenger. | | | | 4 | 7 | 5 | | | | an70 | | |
| | IMO0099 | Person gender, coded | A code representing the gender of the referenced passenger. | | | | | 13 | 10 | | | | an3 | EDIFACT codes (3499) | |
| | IMO0100 | Person given name | The given name of the referenced person, such as a crew member or passenger. | | | | 5 | 8 | 6 | | | | an70 | | |
| | IMO0101 | Person identity or travel document expiry date | The expiry date shown on the referenced person's identity document. | | | | | 17 | 14 | | | | an35 | | |
| | IMO0102 | Person identity or travel document issuing nation, coded | A code representing the nation issuing the referenced person's presented identity or travel document. | | | | | 16 | 13 | | | | a2 | ISO 3166-1 alpha-2 code | |
| | IMO0103 | Person identity or travel document number | The unique control number assigned to the referenced person's identity or travel document by the issuing nation. | | | | | 15 | 12 | | | | an70 | | |

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| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0104 | Person identity or travel document type, coded | A code representing the type of the referenced person's presented identity or travel document. | | | | | 14 | 11 | | | | an3 | EDIFACT codes (1001) | BR 10 |
| | IMO0105 | Person nationality, coded | A code representing the nationality of the referenced person as shown on the person's identity or travel document. | | | | | 10 | 7 | | | | a2 | ISO 3166-1 alpha-2 code | |
| | IMO0106 | Person place of birth name | The name of the referenced person's place of birth as shown on the person's identity or travel document. | | | | | 12 | 9 | | | | an35 | | BR 20 |
| | IMO0107 | Person type, coded | A code representing the type of a person on board the ship, such as master, crew member or passenger. | | | | | Х | X | | | | an3 | EDIFACT codes (3035) | |
| | IMO0108 | Port of arrival, coded | The code representing the port where the ship arrives. | 2 | | 2 | | 2 | 2 | | 2.1 | Title | an5 | UN/LOCODE | |
| | IMO0109 | Port of arrival, name | A name and country of the port where the ship arrives. | 2 | | 2 | | 2 | 2 | | 2.1 | Title | an256 | | BR 21 |

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| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0110 | Port of call sequence number | A number indicating the order of a port of call on a list. | | | | | | | | 3.3 | | n5 | | BR 09 BR 12 |
| | IMO0111 | Port of departure, coded | The code representing the port from which the ship departs. | 2 | | 2 | | 2 | 2 | | | | an5 | UN/LOCODE | |
| | IMO0112 | Port of departure, name | A name and country of the port from which the ship departs. | 2 | | 2 | | 2 | 2 | | | | an256 | | BR 21 |
| | IMO0113 | Port of discharge, coded | The code representing the port of discharge for the referenced cargo. | | 5 | | | | | 4 | | | an5 | UN/LOCODE | |
| | IMO0114 | Port of discharge, name | The name and country of the port of discharge for the referenced cargo. | | 5 | | | | | 4 | | | an256 | | BR 21 |
| | IMO0115 | Port of last waste delivery, name | The name and country of the last port where waste of any type was delivered. | | | | | | | | | 2.6 | an256 | | BR 21 |
| | IMO0116 | Port of last waste delivery, coded | The code representing the last port where waste of any type was delivered. | | | | | | | | | 2.6 | an5 | UN/LOCODE | |
| | IMO0117 | Port of loading, coded | The code representing the port of loading for the referenced cargo. | | 5 | | | | | 3 | | | an5 | UN/LOCODE | |
| | IMO0118 | Port of loading, name | The name and country of the port where the cargo was loaded on board the ship. | | 5 | | | | | 3 | | | an256 | | BR 21 |

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| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0119 | Port of next waste delivery, name | The name and country of the next port where the ship plans to deliver waste of any type. | | | | | | | | | 2.8 | an256 | | BR 21 |
| | IMO0120 | Port of next waste delivery, coded | The code representing the next port where the ship plans to deliver waste of any type. | | | | | | | | | 2.8 | an5 | UN/LOCODE | |
| | IMO0121 | Port of remaining waste delivery, coded | The code representing the port where the ship intends to deliver the remaining waste. | | | | | | | | | Page 2 | an5 | UN/LOCODE | BR 07 |
| | IMO0122 | Port of remaining waste delivery, name | The name and country of the port where the ship intends to deliver the remaining waste. | | | | | | | | | Page 2 | an256 | | BR 07 BR 21 |
| | IMO0123 | Port period of stay | The scheduled duration of stay in the port of arrival in days. | | | 7 | | | | | | | an35 | | |
| | IMO0124 | Previous port facility call start date | The start date of a previous port facility call. | | | | | | | | 3.3 | | an35 | | |
| | IMO0125 | Previous port facility call end date | The end date of a previous port facility call. | | | | | | | | 3.3 | | an35 | | |
| | IMO0126 | Previous port of call, name | The name and country of a previous port of call. | 11 | | | | | | | 3.3 | | an256 | | BR 21 |
| | IMO0127 | Previous port of call, coded | A code representing a previous port of call. | 11 | | | | | | | 3.3 | | an5 | UN/LOCODE | |

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|------------------|----------------|--|---|---------------------|-------------------|--------------------------|----------------------------|------------|----------------|--------------------------|-----------------|---|--------|--------------------------------|----------------|
| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0128 | Authenticator role, coded | A code providing the role of the person attesting to the validity of the transmitted information. | 23 | 10 | 12 | 9 | 18 | 19 | 16 | 6.2 | 2.9 | an3 | EDIFACT codes (3035) | |
| | IMO0129 | RSO Name | The name of the Recognized Security Organization that issued the ISSC or Interim ISSC. | | | | | | | | 3.1.1 | | an70 | | |
| | IMO0130 | Security Plan approval indicator | A "yes/no" indicator of whether the ship is provided with an approved security plan on board. | | | | | | | | 3.1.2. 1 | | n1 | yes/no indicator (1=yes, 0=no) | |
| | IMO0131 | Security, other matters to report | An explanation of any other security-related matters to report. | | | | | | | | 4.1.1 | | an512 | | |
| | IMO0133 | Ship additional security measures, coded | A code representing a description of special or additional security measures applied in lieu of those in the security plan. | | | | | | | | 3.3.2 | | an3 | To be defined | |
| | IMO0135 | Ship additional security measures, description | The description of special or additional security measures applied in lieu of those in the security plan. | | | | | | | | 3.3.2 | | an512 | | |
| | IMO0136 | Ship call sign | A unique ship's identification used primarily for radio communications shown on the ship's IMO certificates. | 1.3 | | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.6 | 1.6 | an7 | | |

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| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0137 | Ship current security level, coded | A code representing the security level of the ship in the port of arrival as defined by the ISPS Code. | | | | | | | | 3.2 | | an3 | Code list to be defined Used codes according to ISPS code - SL1 - SL2 - SL3 | |
| | IMO0138 | Ship flag state, coded | The code representing the nationality of the ship shown on its IMO ship's certificate. | 4 | 3 | 4 | 2 | 4 | 4 | 2 | 1.4 | 1.7 | a2 | ISO 3166-1 alpha-2 code | |
| | IMO0139 | Ship gross tonnage | The gross tonnage shown on the ship's International Tonnage Certificate or other document issued by the Flag State or Recognized Organization. | 9 | | | | | | | 1.8 | 1.3 | n14,3 | | BR 03 BR 09 |
| | IMO0140 | Ship IMO number | The unique ship identification number shown on its IMO ship's certificate. | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 | an7 | | |
| | IMO0141 | Ship INMARSAT call number | The unique, global satellite telephony and data communications address assigned to the ship and recorded in the INMARSAT Ships Directory. | | | | | | | | 1.7 | | an14 | | |
| | IMO0142 | Ship name | The ship's name shown on the IMO ship's certificate. | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | an70 | | |

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| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0143 | Ship net tonnage | The net tonnage shown on the ship's International Tonnage Certificate or other document issued by the flag State or recognized organization. | 10 | | | | | | | | | n14,3 | | BR 03 BR 09 |
| | IMO0144 | Location in port | The name of the berth, terminal or station where the ship is located in the referenced port. | | | | | | | | | 2.1 | an70 | | |
| | IMO0145 | Ship registry issue date | The date of issue shown on the Certificate of Registry. | 7 | | | | | | | | | an35 | | |
| | IMO0146 | Ship registry number | The unique alphanumeric identifier assigned to the Certificate of Registry by the issuing nation for tracking purposes. | 7 | | | | | | | | | an35 | | |
| | IMO0147 | Ship registry port, coded | A code representing the port of registry shown on the IMO ship certificate. | 7 | | | | | | | 1.3 | | an5 | UN/LOCODE | |
| | IMO0148 | Ship registry port, name | The name and country for the Port of Registry shown on the IMO ship certificate. | 7 | | | | | | | 1.3 | | an256 | | BR 21 |
| | IMO0149 | Ship security level in a previous port, coded | A code representing the security level of the ship in a previous port as defined by the ISPS Code. | | | | | | | | 3.3 | | an3 | Code list to be defined Used codes according to ISPS code - SL1 - SL2 - SL3 | |

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| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0150 | Ship security measures, coded | A code representing the security measures taken during ship-to-ship activity by the ship in lieu of the ship security procedures. | | | | | | | | 3.4.2 | | an3 | To be defined | |
| | IMO0151 | Ship security measures, text | A description of the security measures taken during ship-to-ship activity by the ship in lieu of the ship security procedures. | | | | | | | | 3.4.2 | | an256 | | |
| | IMO0153 | Ship stay reference number | Reference number assigned by a port authority to the stay of a ship in the port. | Х | Х | Х | Х | Х | Х | Х | X | X | an35 | | |
| | IMO0154 | Ship stores article name, text | A description of the referenced ship stores article. | | | 8 | | | | | | | an512 | | |
| | IMO0155 | Ship stores article name, coded | A code representing the referenced ship stores article. | | | 8 | | | | | | | an18 | To be defined | |
| | IMO0156 | Ship stores location onboard, text | A description of the location on the ship of the referenced stores article. | | | 10 | | | | | | | an256 | | |
| | IMO0158 | Ship stores quantity onboard | The number, count or amount of an article of the referenced ship stores. | | | 9 | | | | | | | n16,6 | | BR 03 BR 05 BR 09 BR 18 |
| | IMO0159 | Ship stores sequence number | A number indicating the order of the referenced ship stores article in a list. | | | X | | | | | | | n5 | | BR 09 |

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| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0160 | Ship type, coded | The type of the ship shown on its IMO ship's certificate. | 1.1 | | | | | | | 1.5 | 1.4 | an4 | UN/Recommendation 28 | |
| | IMO0161 | Ship-to-ship activity, coded | A code representing the ship-to- ship activity which has been carried out during the period of the last 10 calls. | | | | | | | | 3.4 | | an3 | To be defined | |
| | IMO0162 | Ship-to-ship activity, text | A description of the ship-to-ship activity which has been carried out during the period of the last 10 calls. | | | | | | | | 3.4 | | an512 | | |
| | IMO0163 | Ship-to-ship activity end date | The end date of the ship-to-ship activity which has been carried out during the period of the last 10 calls. | | | | | | | | 3.4 | | an35 | | |
| | IMO0164 | Ship-to-ship activity location, name | The name and country to describe where the ship-to-ship activity has been carried out during the period of the last 10 calls. | | | | | | | | 3.4 | | an256 | | BR 08 |
| | IMO0165 | Ship-to-ship activity sequence number | A number showing the order of ship-to-ship activity which has been carried out during the period of the last 10 calls. | | | | | | | | 3.4 | | n5 | | BR 09 BR 12 |
| | IMO0166 | Ship-to-ship activity start date | The start date of the ship-to-ship activity which has been carried out during the period of the last 10 calls. | | | | | | | | 3.4 | | an35 | | |

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| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0167 | Ship-to-ship activity location, coded | A code representing the location of the ship-to-ship activity which has been carried out during the period of the last 10 calls. | | | | | | | | 3.4 | | an5 | UN/LOCODE | BR 08 |
| | IMO0168 | Subsequent port of call, name | The name and country of a scheduled subsequent port of call. | 11 | | | | | | | | | an256 | | BR 21 |
| | IMO0169 | Subsequent port of call, coded | A code representing a subsequent port of call. | 11 | | | | | | | | | an5 | UN/LOCODE | |
| | IMO0170 | Transport contract number | A reference number to identify a document evidencing a transport contract (e.g. Bill of Lading). | | B/L No. | | | | | | | | an70 | | |
| | IMO0172 | Primary purpose of call, coded | A code representing the primary reason for the ship to enter the referenced port. | | | | | | | | 2.3 | | an3 | EDIFACT codes (8025) | |
| | IMO0173 | Waste estimated amount to be generated | The estimated volume of waste to be generated between notification and next port of call (m3). | | | | | | | | | Page 2 | n16,6 | | BR 03 BR 07 BR 09 BR 13 BR 18 |
| | IMO0174 | Waste amount to be delivered | The volume of waste the ship plans to deliver (m3). | | | | | | | | | 3 | n16,6 | | BR 03 BR 09 BR 13 BR 18 |

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| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0175 | Waste amount retained | The volume of waste the ship plans to retain on board (m3). | | | | | | | | | Page 2 | n16,6 | | BR 03 BR 07 BR 09 BR 13 BR 18 |
| | IMO0178 | All waste delivery indicator | A "yes/no" indicator of whether the ship is delivering all waste on board the ship. | | | | | | | | | Page 2 | n1 | yes/no indicator (1=yes, 0=no) | |
| | IMO0179 | Waste last delivery date | The last date when waste of any type was delivered. | | | | | | | | | 2.7 | an35 | | |
| | IMO0180 | Waste maximum dedicated storage capacity | Maximum dedicated storage capacity on board for this type of waste in cubic metres (m3). | | | | | | | | | Page 2 | n16,6 | | BR 03 BR 07 BR 09 BR 13 BR 18 |
| | IMO0181 | Waste reception facility point of contact | The name of the person to contact at the waste reception facility regarding ship waste delivery. | | | | | | | | | 2.1 | an70 | | |
| | IMO0183 | Waste type, coded | A code representing the type of waste being delivered. | | | | | | | | | 3 | an3 | To be defined | |
| | IMO0184 | Port facility, coded | A code representing the port facility at the port of call. | | | | | | | | 2.1 | | an17 | UN/LOCODE-Facility identifier (e.g. NLRTM-0406) | BR 06 |
| | IMO0185 | Port facility, name | The name and country of a port facility at the port of call. | | | | | | | | 2.1 | | an256 | | BR 22 |

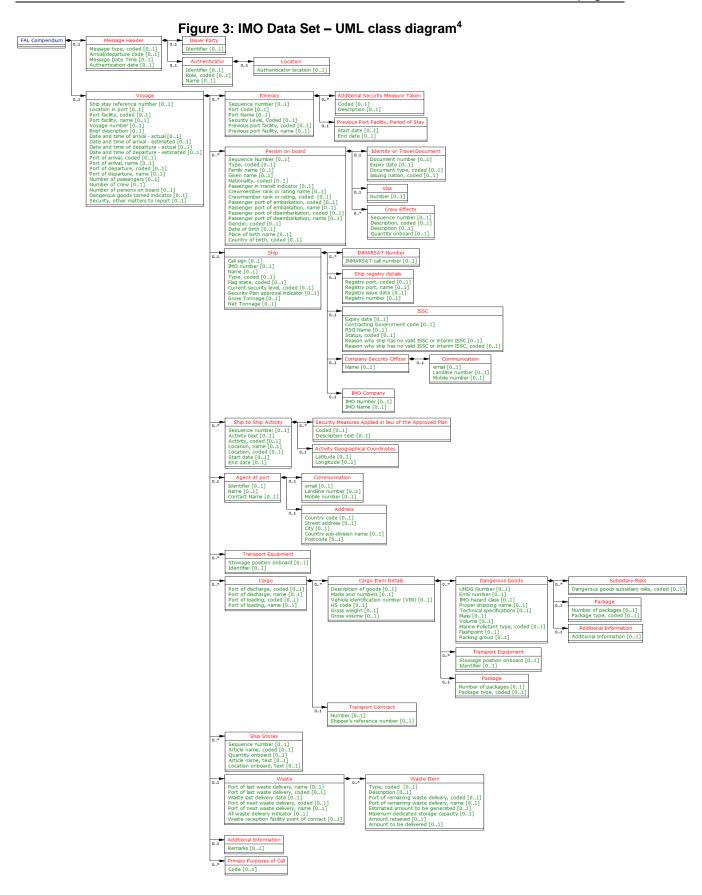
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| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0186 | Dangerous goods additional information | A statement of any other information relevant to the characteristics or hazards of the referenced dangerous goods cargo item. | | | | | | | 12 | | | an256 | | |
| | IMO0187 | Dangerous goods package type, coded | A code representing the package type of the referenced dangerous goods. | | | | | | | 13 | | | an2 | EDIFACT codes (7065) = UN/ECE Recommendation 21 Annex VI | |
| | IMO0188 | Previous port facility, name | The name and country of a previous port facility called at during a previous port call. | | | | | | | | 3.3 | | an256 | | BR 22 |
| | IMO0189 | Previous port facility, coded | A code representing a previous port facility called at during a previous port call. | | | | | | | | 3.3 | | an17 | UN/LOCODE-Facility identifier (e.g. NLRTM-0406) | BR 06 |
| | IMO0190 | Waste description | Additional description of the waste being delivered. | | | | | | | | | 3 | an256 | | |
| | IMO0191 | Voyage number | An operator-assigned reference code for the ship's voyage. | 1.4 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | | | an17 | | |
| | IMO0192 | Message type, coded | Code specifying the name of a message type. | | | | | | | | | | an3 | EDIFACT codes (1001) | |
| | IMO0194 | Ship-to-ship activity location, latitude | The latitude (geographical coordinate) of the location of the ship-to-ship activity which has been carried out during the period of the last 10 calls. | | | | | | | | 3.4 | | an10 | ISO 6709 | BR 08 |

| | | | | | | Cor | relation | to IMO S | Standard | Forms | | | | | |
|------------------|----------------|--|---|---------------------|-------------------|--------------------------|----------------------------|-----------|----------------|--------------------------|-----------------|---|--------|------------|----------------|
| Change Indicator | Data Number | Data Element | Definition | General Declaration | Cargo Declaration | Ships Stores Declaration | Crew's Effects Declaration | Crew List | Passenger List | Dangerous Goods Manifest | Security Report | Waste Delivery in Port (MEPC.1/Circ.834/Rev.1) | Format | Code lists | Business rules |
| | IMO0195 | Ship-to-ship activity location, longitude | The longitude (geographical coordinate) of the location of the ship-to-ship activity which has been carried out during the period of the last 10 calls. | | | | | | | | 3.4 | | an11 | ISO 6709 | BR 08 |
| | IMO0196 | Remarks | Statement of any other information relevant to ship arrival, stay or departure. | 15 | | | | | | | | | an512 | | |
| | IMO0197 | Vehicle identification number (VIN) | An alphanumeric identifier assigned by the shipper to identify a vehicle for tracking purposes. | | | | | | | 7 | | | an17 | | |

Section 3 The IMO Reference Data Model

A Data structure

3.1 Figure 3 shows the structure and relationships of the standard data elements. Please note that in the following diagram, the combination of the class name (in red) plus the attribute name (in green) provides the name to link with table 1.



For technical and consistency reasons, the text in the figure is in English only.

B Data structure business names

3.2 Table 2 shows the summary report of the data model structure.

Table 2: Data structure report⁵

| Occurrence | Components | Reference | Comment |
|-------------|--|-----------|-------------------------------------|
| 0 1 | Message Header | | Message Header |
| 0 1 | -Message type, coded | | IMO0192 |
| 0 1 | —Arrival/departure code | | IMO0013 |
| 0 1 | -Message Date Time | | IMO0078 |
| 0 1 | —Authentication date | | IMO0014 |
| 0 1 | Issuer Party | | Issuer Party |
| 0 1 | Message sender identifier | | IMO0082 |
| 0 1 | - Authenticator | | Authenticator |
| 0 1 | -Authenticator party identification number | | IMO0017 |
| 0 1 | —Authenticator role, coded | | IMO0178 |
| 0 1 | —Authenticator name | | IMO0126 |
| 0 1 | | | 1100010 |
| | Location | | 11100045 |
| 0 1 | L-Authenticator location | | IMO0015 |
| 0 1 | └ _Voyage | | Voyage |
| 0 1 | —Ship stay reference number | | IMO0153 |
| 0 1 | —Location in port | | IMO0144 |
| 0 1 | —Port facility, coded | | IMO0184 |
| 0 1 | —Port facility, name | | IMO0185 |
| 0 1 | ─Voyage number | | IMO0191 |
| 0 1 | —Cargo brief description | | IMO0019 |
| 0 1 | —Date and time of arrival - actual | | IMO0063 |
| 0 1 | —Date and time of arrival - estimated | | IMO0064 |
| 0 1 | —Date and time of departure - actual | | IMO0065 |
| 0 1 | —Date and time of departure - estimated | | IMO0066 |
| 0 1 | —Port of arrival, coded | | IMO0108 |
| 0 1 | —Port of arrival, name | | IMO0109 |
| 0 1 | —Port of departure, coded | | IMO0111 |
| 0 1 | —Port of departure, name | | IMO0112 |
| 0 1 | -Number of passengers | | IMO0087 |
| 0 1 | —Number of crew | | IMO0086 |
| 0 1 | -Number of persons on board | | IMO0088 |
| 0 1 | —Dangerous goods carried indicator | | IMO0046 |
| 0 1 | —Security, other matters to report | | IMO0131 |
| 0 unbounded | | | Itinerary |
| 0 1 | —Port of call sequence number | | IMO0110 |
| 0 1 | Last Port of Call, coded | | IMO0076 |
| 0 1 | Next Port of call, coded | | IMO0084 |
| | Previous Port of call, coded | | IMO0127 |
| | Subsequent Port of call, coded | | IMO0169 |
| 0 1 | Last Port of call, name | | IMO0075 |
| 0 1 | Next Port of call, name | | IMO0085 |
| | Previous port of call, name | | IMO0126 |
| | Subsequent Port of call, name | | IMO0168 |
| 0 1 | —Ship security level in a previous port, coded | | IMO0149 |
| 0 1 | Previous port facility, coded | | IMO0189 |
| 0 1 | —Previous port facility, name | | IMO0188 |
| 0 unbounded | | | Additional Securit |
| o unbounded | Additional Security Measure Taken | | Measure Taken |
| 0 1 | Ship additional security measures, coded | | IMO0133 |
| 0 1 | Ship additional security measures, coded Ship additional security measures, description | | IMO0135 |
| | | | |
| 0 1 | Previous Port Facility, Period of Stay | | Previous Port Fac Period of Stay |
| 0 1 | -Previous port facility call start date | | IMO0124 |
| 0 1 | Previous port facility call end date | | IMO0125 |
| 0 unbounded | | | Person on board |
| 0 1 | Person on board sequence number | | IMO0044 |
| - | —Person type, coded | | IMO0107 |
| | | | |
| 0 1 | Person family name | | IMO0098 |
| 0 1 | —Person given name | | IMO0100 |

For technical and consistency reasons, the text in the table is in English only.

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| Occurrence | Components | Reference | Comment |
|--------------------|---|-----------|-----------------------------|
| 0 1 | Person nationality, coded | | IMO0105 |
| 0 1 | —Passenger in transit indicator | | IMO0089 |
| 0 1 | —Crewmember rank or rating name | | IMO0042 |
| 0 1 | —Crewmember rank or rating, coded | | IMO0043 |
| 0 1 | —Passenger port of embarkation, coded | | IMO0091 |
| 0 1 | Passenger port of embarkation, name | | IMO0094 |
| 0 1 | —Passenger port of disembarkation, coded | | IMO0093 |
| 0 1 | Passenger port of disembarkation, name | | IMO0092 |
| 0 1 | —Person gender, coded | | IMO0099 |
| 0 1 | —Person date of birth | | IMO0097 |
| 0 1 | —Person place of birth name | | IMO0106 |
| 0 1 | Person country of birth, coded | | IMO0096 |
| 0 1 | TIdentity or Travel Document | | Identity or Travel |
| 0 1 | Paraan idantitu dagumant numbar | | Document |
| 0 1 0 1 | Person identify document number | | IMO0103 IMO0101 |
| 0 1 | Person identification or travel document expiry date | | |
| 0 1 | Person identity document type, coded Person identify document issuing nation, coded | | IMO0104 IMO0102 |
| | | | |
| 0 1 | -Visa | | Visa IMO0095 |
| 0 1 0 unbounded | □ □ Passenger visa number □ □ Crew Effects | | |
| 0 dribodrided | | | Crew Effects IMO0041 |
| 0 1 | —Crew effects sequence number —Crew effect description, coded | | IMO0037 |
| | —Crew effects description | | |
| 0 1 | Crew effect quantity onboard | | IMO0040 IMO0039 |
| 0 1 | | | |
| * | Ship | | Ship |
| 0 1 | —Ship call sign | | IMO0136 |
| 0 1 | —Ship IMO number | | IMO0140 |
| 0 1 | —Ship name | | IMO0142 |
| 0 1 | —Ship type | | IMO0160 |
| 0 1 | —Ship flag state, coded | | IMO0138 |
| 0 1 | —Ship current security level, coded | | IMO0137 |
| 0 1 | —Security Plan approval indicator | | IMO0130 |
| 0 1 | —Ship gross tonnage | | IMO0139 |
| 0 1 | Ship net tonnage | | IMO0143 |
| 0 unbounded | INMARSAT Number | | INMARSAT Number |
| 0 1 | Ship INMARSAT call number | | IMO0141 |
| 0 1 | Ship registry details | | Ship registry details |
| 0 1 | —Ship registry port, coded | | IMO0147 |
| 0 1 | Ship registry port, name | | IMO0148 |
| 0 1 | —Ship registry issue date | | IMO0145 |
| 0 1 | ☐Ship registry number | | IMO0146 |
| 0 1 | TISSC | | ISSC |
| 0 1 | ─ISSC expiry date | | IMO0071 |
| 0 1 | ISSC contracting Government code | | IMO0070 |
| 0 1 | RSO Name | | IMO0129 |
| 0 1 | —ISSC status, coded | | IMO0067 |
| 0 1 | Reason why ship has no valid ISSC or interim ISSC | | IMO0068 |
| 0 1 | ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ | | IMO0069 |
| 0 1 | Company Security Officer | | Company Security Officer |
| 0 1 | Company security officer name | | IMO0036 |
| 0 1 | ☐ Communication | | Communication |
| 0 1 | —Company security officer email | | IMO0033 |
| 0 1 | —Company security officer landline number | | IMO0034 |
| 0 1 | Company security officer mobile number | | IMO0035 |
| 0 1 | ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ | | |
| | | | IMO Company |
| 0 1 | —Company IMO number | | IMO0031 |
| 0 1 | └─Company IMO name | | IMO0032 |

| Occurrence | Components | Reference | Comment |
|-------------|--|-----------|--------------------------------------|
| 0 unbounded | ⊤Ship to Ship Activity | | Ship to Ship Activity |
| 0 1 | —Ship-to-ship activity sequence number | | IMO0165 |
| 0 1 | —Ship-to-ship activity, text | | IMO0162 |
| 0 1 | —Ship-to-ship activity, coded | | IMO0161 |
| 0 1 | -Ship-to-ship activity location, name | | IMO0164 |
| 0 1 | -Ship-to-ship activity location, coded | | IMO0167 |
| 0 1 | —Ship-to-ship activity start date | | IMO0166 |
| 0 1 | -Ship-to-ship activity end date | | IMO0163 |
| 0 unbounded | Security Measures Applied in lieu of the | | Security Measures |
| | Approved Plan | | Applied in lieu of the Approved Plan |
| 0 1 | —Ship security measures, coded | | IMO0150 |
| 0 1 | ☐ Ship security measures, text | | IMO0151 |
| 0 1 | Activity Geographical Coordinates | | Activity Geographical Coordinates |
| 0 1 | —Ship-to-ship activity location, latitude | | IMO0194 |
| 0 1 | LShip-to-ship activity location, longitude | | IMO0195 |
| 0 1 | Agent at port | | Agent at port |
| 0 1 | -Agent identification number | | IMO0007 |
| 0 1 | —Agent name | | IMO0010 |
| 0 1 | -Agent Contact Name | | IMO0002 |
| 0 1 | - Communication | | Communication |
| 0 1 | —Agent email | | IMO0006 |
| 0 1 | —Agent landline number | | IMO0008 |
| 0 1 | Agent mobile number | | IMO0009 |
| 0 1 | Address | | Address |
| 0 1 | Agent street and number/P.O. Box. | | IMO0012 |
| 0 1 | —Agent City | | IMO0001 |
| 0 1 | -Agent country sub-division name | | IMO0004 |
| 0 1 | —Agent country code | | IMO0003 |
| 0 1 | Agent postcode | | IMO0011 |
| 0 unbounded | ⊤Transport Equipment | | |
| | —Stowage position onboard | | Transport Equipment IMO0045 |
| 0 1 0 1 | Transport equipment identification number | | IMO0043 |
| | | | - |
| | Cargo | | Cargo |
| 0 1 | —Port of discharge, coded | | IMO0113 |
| 0 1 | —Port of discharge, name | | IMO0114 |
| 0 1 | —Port of loading, coded | | IMO0117 |
| 0 1 | —Port of loading, name | | IMO0118 |
| 0 unbounded | Cargo Item Details | | Cargo Item Details |
| 0 1 | Cargo item description of goods | | IMO0022 |
| 0 1 | Cargo item marks and numbers | | IMO0026 |
| 0 1 | Vehicle identification number (VIN) | | IMO0197 |
| 0 1 | —Cargo item HS code | | IMO0025 |
| 0 1 | Cargo item gross weight | | IMO0024 |
| 0 1 | Cargo item gross volume | | IMO0023 |
| 0 unbounded | ☐ Dangerous Goods | | Dangerous Goods |
| 0 1 | —Dangerous goods UNDG number | | IMO0060 |
| 0 1 | —Dangerous goods EmS number | | IMO0047 |
| 0 1 | —Dangerous goods IMO hazard class | | IMO0049 |
| 0 1 | —Dangerous goods proper shipping name | | IMO0055 |
| | —Dangerous goods technical specifications | | IMO0059 |
| 0 1 | | | IMO0052 |
| 0 1 0 1 | —Dangerous goods mass | | 110100032 |
| - | —Dangerous goods mass —Dangerous goods volume | | IMO0052 IMO0061 |
| 0 1 | | | |
| 0 1 0 1 | —Dangerous goods volume | | IMO0061 |

| Occurrence | Components | Reference Comment |
|-------------------|---|------------------------------------|
| 0 unbounded | | Subsidiary Risks |
| 0 1 | ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐ | IMO0058 Package |
| 0 1 0 1 | —Dangerous goods number of packages —Dangerous goods package type, coded | IMO0053 IMO0187 |
| 0 1 0 1 | Additional Information Dangerous goods additional information | Additional Information IMO0186 |
| 0 unbounded | Transport Equipment | Transport Equipment |
| 0 1 0 1 | Stowage position onboard Transport equipment identification number | IMO0045 IMO0021 |
| 0 1 0 1 | Package Cargo item number of packages | Package IMO0028 |
| 0 1 | Cargo item package type, coded | IMO0029 |
| 0 1 0 1 0 1 | Transport Contract —Transport contract number Dangerous goods shipper's reference number | Transport Contract IMO0170 IMO0056 |
| 0 unbounded | ⊤Ship Stores | Ship Stores |
| 0 1 0 1 0 1 | —Ship stores sequence number —Ship stores article name, coded —Ship stores quantity onboard | IMO0159 IMO0155 IMO0158 |
| 0 1 0 1 | Ship stores article name, text Ship stores location onboard, text | IMO0154 IMO0156 |
| 0 1 | → Waste →Port of last waste delivery, name | Waste IMO0115 |
| 0 1 0 1 0 1 | —Port of last waste delivery, riaffie —Port of last waste delivery, coded —Waste last delivery date | IMO0115 IMO0116 IMO0179 |
| 0 1 | —Port of next waste delivery, coded —Port of next waste delivery, name | IMO0120 IMO0119 |
| 0 1 | —All waste delivery indicator —Waste reception facility point of contact | IMO0178 IMO0181 |
| 0 unbounded | └┬ Waste Item | Waste Item |
| 0 1 0 1 | Waste type, coded Waste description | IMO0183 IMO0190 |
| 0 1 0 1 | —Port of remaining waste delivery, coded —Port of remaining waste delivery, name | IMO0121 IMO0122 |
| 0 1 0 1 | —Waste estimated amount to be generated —Waste maximum dedicated storage capacity | IMO0173 IMO0180 |
| 0 1 0 1 | Waste amount retained Waste amount to be delivered | IMO0175 IMO0174 |
| 0 1 | Additional Information Remarks | Additional Information IMO0196 |
| 0 unbounded | | Primary Purposes of Call |
| 0 1 | Primary purpose of call, coded | IMO0172 |

Section 4 Implementation business rules

A Business rules

4.1 Table 3 shows the business rules for using the IMO data elements.

Table 3: Business rules

| BR No. | Description of the business rules | Used in IMO data element |
|--------|---|---|
| BR 00 | In general, free text should not be used in case coded information is available | |
| BR 01 | Date time values are always provided with the indication of time zone | IMO0063 IMO0064 IMO0065 IMO0066 IMO0078 |
| BR 02 | The recommended unit to be used is KGM | IMO0024 |
| BR 03 | Leading zeroes shall not be used for numerical values. Trailing zeroes should only be used to indicate precision. | IMO0023 IMO0024 IMO0028 IMO0039 IMO0048 IMO0052 IMO0061 IMO0086 IMO0087 IMO0088 IMO0139 IMO0143 IMO0173 IMO0174 IMO0175 IMO0175 IMO0180 |
| BR 04 | The recommended units to be used are: LTR, MTQ | IMO0023 |
| BR 05 | The recommended units to be used for quantity values are: KGM, TNE, MTQ, LTR, NAR | IMO0039 IMO0158 |
| BR 06 | Port facility's codes can be found in the IMO GISIS maritime security database | IMO0184 IMO0189 |
| BR 07 | A value must be provided if the value for IMO0178 is "0" | IMO0121 IMO0122 IMO0173 IMO0175 IMO0180 |
| BR 08 | The ship-to-ship activity's location may be either LOCODE, latitude and longitude, or location name | IMO0164 IMO0167 IMO0194 IMO0195 |

| BR No. | Description of the business rules | Used in IMO data element |
|--------|--|---|
| BR 09 | If filled, the respective value of data element must be more than 0 | IMO0023 IMO0024 IMO0028 IMO0039 IMO0041 IMO0044 IMO0048 IMO0052 IMO0061 IMO0086 IMO0087 IMO0101 IMO0139 IMO0143 IMO0158 IMO0158 IMO0159 IMO0159 IMO0173 IMO0173 IMO0174 IMO0175 IMO0175 |
| BR 10 | The recommended values to be used are 36 (Identity card) or 101 (registration document) or 39 (Passport) | IMO0104 |
| BR 11 | The recommended references to be used are: The description format is dependent on the cargo unit type (container, bulk, etc.) as well as the type of ship (ro-ro, deep sea container, feeder, etc.). According with ISO Standard 28005-2, it is a string with one upper case letter specifying the type of location code, a colon (:) and then the actual location code. The following clauses specify the type of coding, the coding letter and the format of the code. 1) Containership – Code "C": A string of digits in the form BBRRTT where BB is the bay number, RR is the row number and TT is the tier number. This shall be coded according to ISO 9711-1. This includes leading zeros where necessary. As an example, "C:010212" means container in bay 1, row 2 and tier 12. 2) Container feeder – Code "F": A string of digits in the form HHHTTRR where HHH is the hatch number, TT is the tier number and RR is the row number. All fields shall be filled with leading zeros. As an example "F:0010204" means hatch 1, tier 2 and row 4. 3) Ro-ro – Code "R": A string of digits in the form DDBBBRRTT where DD is deck, BBB is bay, RR is row and TT is tier. As an example "R:030100204" means deck 3, bay 10, row 2 and tier 4. 4) General cargo – Code "G": A string of characters in the format CCS or CCSDDD, where CC is the cell number, S is side of ship ("S" – starboard, "P" – port side and "C" – centre), and DDD is an optional code specifying deck (WED – weather deck, TDn – tween deck n, where n is a digit zero to nine and LOH is lower hold deck). 5) Bulk vessel, including tankers – Code "B": The tank or hold number as numeral or other coding as used on board. | IMO0045 |

| BR No. | Description of the business rules | Used in IMO data element |
|--------|---|---|
| | 6) Other – Code "O": Free text description. Another common practice for ro-ro is to use the following description format: DECK/LANE/POSITION(FOR or FRN)/LEVEL • DECK number: counted from bottom to top • LANE number: counted from port to starboard • POSITION: distance measured in meters either from forward (FOR) or from frame number (FRN) to the centre of the cargo unit (which option is used has to be clearly indicated when providing the information • LEVEL number: counted from bottom to top (on a single deck where it is possible to stow in multiple levels) For tankers, the following description is commonly used: 3 characters for the tank number (01, 02, etc.) with a further indication: S (Starboard), P (Portside), C (Centre), F (Forward) or A (Aft). | |
| BR 12 | To be provided in chronological order with the most recent first. | IMO0110 IMO0165 |
| BR 13 | The unit to be used is MTQ. | IMO0173 IMO0174 IMO0175 IMO0180 |
| BR 14 | The unit to be used is LTR. | IMO0061 |
| BR 15 | An entry must be provided if the value for IMO0067 is "0". | IMO0068 IMO0069 |
| BR 16 | The unit to be used is KGM. | IMO0052 |
| BR 17 | The unit to be used is LTR. | IMO0061 |
| BR 18 | For all measurement items (e.g. volume, weight, mass, quantity) the indication of the unit is provided through IMO0077. | IMO0023 IMO0024 IMO0039 IMO0048 IMO0052 IMO0061 IMO0158 IMO0173 IMO0174 IMO0175 IMO0180 |

| BR No. | Description of the business rules | Used in IMO data element |
|--------|--|---|
| BR 19 | For all free text items or data elements related to text, the provision of the language code is necessary | |
| BR 20 | If the country of birth is not listed in code list 3166-1 the country of birth needs to be indicated in IMO0106 (Person place of birth) | IMO0096 IMO0106 |
| BR 21 | The name of a port always includes the port name and the country name. The format is: PortName, CountryName | IMO0075 IMO0085 IMO0092 IMO0094 IMO0109 IMO0112 IMO0114 IMO0115 IMO0118 IMO0119 IMO0122 IMO0126 IMO0168 IMO0148 |
| BR 22 | The name of facility name of a port of call includes the facility name and country of a port of call. The format is: FacilityName, PortName, CountryName | IMO0185 IMO0188 |
| BR 23 | The format to be used is: FamilyName, GivenName | IMO0002 IMO0016 IMO0036 IMO0083 |

Annex 1: World Customs Organization (WCO) Data Mapping