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Ships and marine technology
Electronic port clearance (EPC)

Part 3:

Data elements for ship and port ~~Operation~~operation

~~Navires et technologie maritime — Opérations portuaires assistées par systèmes électroniques —
Partie 3: Éléments de données pour l'exploitation des navires et des ports~~

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 11, *Intermodal and Short Sea Shipping*.

A list of all parts in the ISO 28005 series are found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Ships and marine technology — Electronic port clearance (EPC) — Part 3: Data elements for ship and port operation

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1 Scope

This document provides technical specifications to facilitate an efficient exchange of electronic information between ships and shore, for coastal transit and port calls, with a specific focus on the operational data exchange. It specifies requirements to enhance the safety, security and efficiency of information exchanges.

This document describes core data elements for use in electronic port clearance (EPC) messages. It does not define any structuring of messages, but rather gives general details on safety-, security- and operation-related maritime information in the context of EPC messages.

Details about message formats and applications are found in ISO 28005-1.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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ISO 6346, *Freight containers — Coding, identification and marking*

ISO 6709, *Standard representation of geographic point location by coordinates*

ISO 9711-1, *Freight containers — Information related to containers on board vessels — Part 1: Bay plan system*

UNECE R21, (UNECE Recommendation No. 21), Codes for Passengers, Types of Cargo, Packages and Packaging Materials (with Complementary Codes for Package Names)

UNECE R16, UNECE Recommendation No. 16, United Nations Code for Trade and Transport Locations (ECE/TRADE/459)

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3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>

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ISO/DIS 28005-3:2024(E)

IMO Compendium shall be carried out as specified in Annex A ~~in this document~~. The IMO Compendium^{[29],[30]} is approved by the facilitation committee in IMO (IMO FAL).

This document includes data types for all data elements in the IMO compendium as decided by IMO FAL 47^{[24],[31]} including data sets for:

- Maritime Declaration ~~of~~ Health^[38]
- Just in ~~Time Concept~~time concept
- Stowaways
- Ship and ~~Company~~company certificates
- Acknowledgment ~~Receipt~~receipt
- Maritime ~~Services~~service
- Ship registry and ~~Company~~company details
- Inspections
- ~~PSC Inspection History Data~~
- ~~Port state control (PSC) inspection history data~~
- Ship ~~Reporting Systems~~reporting systems
- Ballast ~~Water Arrival Reporting~~water arrival reporting
- Waste ~~Delivery Report~~delivery report
- Advanced ~~Passenger Information~~passenger information
- Verified ~~Gross Mass~~gross mass

6 EPC request body

~~Table 1~~Table 2 lists the data elements in the EPC request body.

Table 2 — EPC request body

Core element	Type	Card-C ardina lity	Description
Agent	epc:Agent Type	0..1	The ship's agent
Air Draught	epc:Air Draught Type	0..1	Air draught
Anchorage Arrival	epc:Anchorage Arrival Type	0..* ^(*)	Specification of arrival to an anchorage. The arrival time can be actual, estimated, planned or requested.
Anchorage Departure	epc:Anchorage Departure Type	0..*	Specification of departure from an anchorage. The departure time can be actual, estimated, planned or requested.

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Core element	Type	Cardinality	Description
ArrivalDeparture	epc:ArrivalDepartureType	0..1	Arrival or departure flag
ArrivalDraught	epc:ArrivalDraughtType	0..1	Arrival draught
ATP	epc:ATPType	0..1	Actual time of passage
Authenticator	epc:AuthenticatorType	0..1	Information about the authenticator of the information
BallastStatus	epc:BallastStatusType	0..1	Status of ship's ballast water when in port
BallastWaterArrivalReporting	Epc:BallastWaterManagementType	0..1	Ballast water arrival reporting
BerthArrival	epc:BerthArrivalType	0..*	Specification of arrival to a berth. The arrival time can be actual, estimated, planned or requested.
BerthDeparture	epc:BerthDepartureType	0..*	Specification of departure from a berth. The departure time can be actual, estimated, planned or requested.
BerthPositionArrival	epc:BerthPositionArrivalType	0..*	Specification of arrival to a berth position. The arrival time can be actual, estimated, planned or requested.
BerthPositionDeparture	epc:BerthPositionDepartureType	0..*	Specification of departure from a berth position. The departure time can be actual, estimated, planned or requested.
BulkLoadUnloadData	epc:BulkLoadUnloadDataType	0..1	Data required for safe loading and unloading
CallPurpose	epc:CallPurposeType	0..*	Purpose of call
CargoData	epc:CargoDataType	0..1	Detailed description of cargo
CargoOverview	epc:CargoOverviewType	0..1	Brief description of onboard cargo
CertificateList	epc:CertificateListType	0..1	List of ship's certificates
Company	epc:CompanyType	0..1	The ship's operating company
CSO	epc:CompanySecurityOfficerType	0..1	Information about the company security officer shown in the ship security plan.
CrewList	epc:CrewListType	0..1	Information about all crew on board, including information about the Master.
CrewReference	epc:CrewMemberDataType	0..1	Reference to the crew onboard that has authorized a message from the ship.
CurrentPortSecurityLevel	epc:CurrentPortSecurityLevelType	0..1	Current security level in port.
CurrentShipSecurityLevel	epc:CurrentShipSecurityLevelType	0..1	Current security level on ship.

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Core element	Type	Card-Cardinality	Description
DangerousGoodsCargoIndicator	epc: DangerousGoodsCargoIndicatorType	0..1	A yes/no indicator whether the ship is carrying any dangerous goods.
Departure Draught	epc: Departure Draught Type	0..1	Departure draught
DutiableCrewEffects	epc: DutiableCrewEffectType	0..1	List of crew effects that are dutiable
ETP	epc: ETPType	0..1	Estimated time of passage
FacilityArrival	epc: FacilityArrivalType	0..*	Specification of arrival to a facility. The arrival time can be actual, estimated, planned or requested.
FacilityDeparture	epc: FacilityDepartureType	0..*	Specification of departure from a facility. The departure time can be actual, estimated, planned or requested.
GeneralDescriptionOfDG	epc: GeneralDescriptionOfDGType	0..1	General description of dangerous cargo
GeneralRemark	epc: RemarksType	0..1	Statement of any other information relevant to ship arrival, stay or departure
HasSecurityPlan	epc: HasSecurityPlanType	0..1	Approved security plan
HealthData	epc: HealthDataType	0..1	Health information for the ship
INFClassContent	epc: INFClassContentType	0..1	Irradiated nuclear fuel class
ISSCertificateStatus	epc: ISSCertificateStatusType	0..1	International Ship Security (ISS) Certificate status
LastPortOfCall	epc: LastPortOfCallType	0..1	Last port of call
MaritimeService	Epc: MaritimeServiceType	0..1	Reference to a maritime service related to ServiceName and ServiceCode as given in the EPCMessageHeaderType.
NavigationalStatus	epc: NavigationalStatusContentsType	0..1	Navigational status
NextPortOfCall	epc: NextPortOfCallType	0..1	Next port of call
NextReportTime	epc: NextReportTimeType	0..1	Time of next report
OBOLoadUnloadData	epc: OBOLoadUnloadDataType	0..1	Data required for safe loading and unloading of oil-bulk-ore (OBO)
OtherPersonList	epc: OtherPersonListType	0..1	List of persons onboard that are neither crew nor passengers.
PassengerList	epc: PassengerListType	0..1	Information about passengers
PeriodOfStay	epc: PeriodOfStayType	0..1	Period of stay
PersonsOnboard	epc: PersonsOnboardNumberType	0..1	Number of persons onboard
PilotBoardingPlaceArrival	epc: PilotBoardingPlaceArrivalType	0..1	Time and location for an arrival to a pilot boarding place.
PilotBoardingPlaceDeparture	epc: PilotBoardingPlaceDepartureType	0..1	Time and location for a departure from a pilot boarding place.
PortCallList	PortCallListType	0..1	Last ten port calls.
PortOfArrival	epc: PortOfArrivalType	0..1	Arrival port and time.

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