German Ports

Secure Release Order XML

Message implementation guideline
Version 1.0.0/E

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Change Requests

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Used Tools

Number	Used tools
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1 Messages

Similar to other EDI systems, German Ports accepts various request messages for creating a release order. These request messages can be sent in two different formats: XML messages (type “Request”) or an EDIFACT message (type “COREOR”). The format of the request message determines the format of the subsequent response: a request sent via XML will trigger an XML response, while a request sent via EDIFACT will trigger an APERAK response.

This implementation guide describes the content and structure of the Secure Release Order XML message sent to German Ports by the carrier needed to create the digital Pick-Up Right.

1.1 Structure

The XML messages are normally composed according to the following structure:

```
<Name_der Nachricht>
        <Interchange>
                Meta-Daten Interchange
        </Interchange>
        <Fachliche Nachricht 1>
                Meta-Daten Nachricht1
                  <Kopfdaten/>
                  <Details/>
        </Fachliche Nachricht 1>
        <Fachliche Nachricht 2>
                Meta-Daten Nachricht 2
                  <Kopfdaten/>
                  <Details/>
        </Fachliche Nachricht 2>
        …
        <Fachliche Nachricht n>
                Meta-Daten Nachricht n
                  <Kopfdaten/>
                  <Details/>
```

An interchange, comparable with a physical transmission file, includes one or more messages. Basically only documents of the same message type are incorporated in an interchange. Thus, disposals, status messages or the like are not combined in a transmission, but only messages of one type – the disposal (i.e. release order) in this case.

The meta information is prepended to the technical messages of the interchange. It describes data regarding the physical transmission, e.g. the sender, receiver and creation of the file.

The meta information of the technical message, for instance, indicate the identity of the sender and receiver of the data.

2 Message Structure

Ocurrence	Element/Attribute
	GermanPortsReleaseOrder
1 .. 1	xs:sequence
1 .. 1	**Interchange**
1 .. 1	xs:sequence
1 .. 1	**CreationTimeStamp**
1 .. 1	**ExchangeNumber**
0 .. 1	**TestIndicator**
1 .. 1	**Sender**
1 .. 1	xs:sequence
1 .. 1	**ParticipantCode**
0 .. 1	**Contact**
1 .. 1	xs:sequence
1 .. 1	**Name**
0 .. 1	**Telephone**
0 .. 1	**Email**
1 .. 1	**Recipient**
1 .. 1	xs:sequence
1 .. 1	**ParticipantCode**
1 .. unbounded	**GPReleaseOrder**
1 .. 1	xs:sequence
1 .. 1	**MessageHeader**
1 .. 1	xs:sequence
1 .. 1	**Version**
1 .. 1	**Function**
1 .. 1	**ReferenceNumber**
1 .. 1	**Sender**
1 .. 1	xs:sequence
1 .. 1	**ParticipantCode**
0 .. 1	**Contact**
1 .. 1	xs:sequence
1 .. 1	**Name**
0 .. 1	**Telephone**
0 .. 1	**Email**
0 .. 1	**Recipient**
1 .. 1	xs:sequence

Ocurrence	Element/Attribute
1 .. 1	ParticipantCode
1 .. 1	**GPReleaseOrderDetails**
1 .. 1	xs:sequence
0 .. 1	**Container**
1 .. 1	xs:sequence
0 .. 1	ContainerID
0 .. 1	StuffingLevelCode
0 .. 1	ContainerTypeISOCode
0 .. 1	EquipmentStatusCode
1 .. 1	BillOfLadingID
0 .. 1	HandlingType
1 .. 1	xs:choice
0 .. 1	GermanPortsID
0 .. 1	PartnerID
0 .. 1	PartnerEmail
0 .. 1	CustomerReferenceID
0 .. 1	**Vessel**
1 .. 1	xs:sequence
0 .. 1	IMO
0 .. 1	CallSign
0 .. 1	Name
0 .. 1	VoyageNumber
0 .. 1	**Terminal**
1 .. 1	xs:sequence
0 .. 1	LocationID
0 .. 1	TerminalID
0 .. 1	TerminalName
0 .. 1	ReleaseOrderReference
0 .. 1	IssueTimeStamp
0 .. 1	ExpirationDate
0 .. 1	**ReturnLocationData**
1 .. 1	xs:sequence
0 .. 1	**FacilityLocation**
1 .. 1	xs:sequence
0 .. 1	LocationID
0 .. 1	FacilityID
0 .. 1	FacilityName
0 .. 1	TurnInReference

3 Guideline

Element/Attribute	Annotations	
xs:sequence	Ocurrence	1 .. 1
Interchange	Ocurrence	1 .. 1
	Type	gp:Interchange
	Description	Each Interchange starts with an element containing some meta information, followed by one or more messages.
xs:sequence	Ocurrence	1 .. 1
CreationTimeStamp	Ocurrence	1 .. 1
	Type	gp:DocumentCreationTimeStamp
	Description	Date and time of document creation. Format : 2024-03-31T13:20:00
	Example	2024-05-02T13:27:00
ExchangeNumber	Ocurrence	1 .. 1
	Type	gp:DocumentExchangeNumber
	Length	1 .. 14
	Description	A unique reference number of an interchange.
	Example	000ICEN4040857
TestIndicator	Ocurrence	0 .. 1
	Type	xs:boolean
	Name	Test Indicator
Sender	Ocurrence	1 .. 1
	Type	gp:SenderType
	Description	Information about the party who assembled and sent an interchange
xs:sequence	Ocurrence	1 .. 1
ParticipantCode	Ocurrence	1 .. 1
	Type	gp:ParticipantCode
	Length	1 .. 35
	Name	Participant code
Contact	Ocurrence	0 .. 1
	Type	gp:Contact
	Description	Message sender's contact information
xs:sequence	Ocurrence	1 .. 1
Name	Ocurrence	1 .. 1
	Type	gp:Name
	Length	1 .. 35
	Description	Name or department of a contact
Telephone	Ocurrence	0 .. 1
	Type	gp:Phone
	Length	1 .. 35
	Description	Telephone communication number
Email	Ocurrence	0 .. 1
	Type	gp:Email
	Length	3 .. 70
	Description	Email Address
Recipient	Ocurrence	1 .. 1
	Type	gp:RecipientType
	Description	Contains Information about the party receiving an Interchange. This party may forward the whole interchange or split it up into individual messages which will be further processed.
xs:sequence	Ocurrence	1 .. 1

Element/Attribute	Annotations	
ParticipantCode	Ocurrence	1 .. 1
	Type	gp:ParticipantCode
	Length	1 .. 35
	Name	Participant code
GPReleaseOrder	Ocurrence	1 .. unbounded
	Type	gp:GPReleaseOrder
xs:sequence	Ocurrence	1 .. 1
MessageHeader	Ocurrence	1 .. 1
	Type	gp:MessageHeader
	Description	The message header contains meta information about an actual message which is transmitted as part of an interchange.
xs:sequence	Ocurrence	1 .. 1
Version	Ocurrence	1 .. 1
	Type	gp:MessageVersionID
	Fixed	1.0.0
	Length	.. 17
	Description	Version of the message definition on which a message is based
Function	Ocurrence	1 .. 1
	Type	gp:MessageFunctionCode
	Example	CREATE
	Applicable Codes	
	CANCEL	Cancellation
	CREATE	Creates a new message, object etc
	UPDATE	update of an existing message
ReferenceNumber	Ocurrence	1 .. 1
	Type	gp:MessageReferenceNumber
	Length	.. 35
	Description	Uniqe reference number identifying a single message. An interchange may contain more than one message.
	Example	47110815
Sender	Ocurrence	1 .. 1
	Type	gp:SenderType
	Description	This element contains information about the actual sender of a message (which might be different from the party who assembled and sent an interchange)
xs:sequence	Ocurrence	1 .. 1
ParticipantCode	Ocurrence	1 .. 1
	Type	gp:ParticipantCode
	Length	1 .. 35
	Name	Participant code
Contact	Ocurrence	0 .. 1
	Type	gp:Contact
	Description	Contact Information
xs:sequence	Ocurrence	1 .. 1
Name	Ocurrence	1 .. 1
	Type	gp:Name
	Length	1 .. 35
	Description	Name or department of a contact
Telephone	Ocurrence	0 .. 1
	Type	gp:Phone
	Length	1 .. 35
	Description	Telephone communication number

Element/Attribute	Annotations	
Email	Ocurrence	0 .. 1
	Type	gp:Email
	Length	3 .. 70
	Description	Email Address
Recipient	Ocurrence	0 .. 1
	Type	gp:RecipientType
	Description	This element contains information about a message's recipient/s.
xs:sequence	Ocurrence	1 .. 1
ParticipantCode	Ocurrence	1 .. 1
	Type	gp:ParticipantCode
	Length	1 .. 35
	Name	Participant code
GPReleaseOrderDetails	Ocurrence	1 .. 1
	Type	gp:ReleaseOrderDetailsType
	Description	Message with technical data for the release
xs:sequence	Ocurrence	1 .. 1
Container	Ocurrence	0 .. 1
	Type	gp:ContainerDetails
	Description	Properties of a specific container
xs:sequence	Ocurrence	1 .. 1
ContainerID	Ocurrence	0 .. 1
	Type	gp:ContainerIDType
	Description	Container ID including both prefix and numeric part (format PPPNNNNNNZ, for official numbers, the prefix must be a value listed in BIC code list!)
StuffingLevelCode	Ocurrence	0 .. 1
	Type	gp:StuffingLevelCode
	Description	Code describing the stuffing level
ContainerTypeISOCode	Ocurrence	0 .. 1
	Type	gp:ContainerTypeISOCode
	Length	1 .. 4
	Description	Container type according to ISO code system
EquipmentStatusCode	Ocurrence	0 .. 1
	Type	gp:EquipmentStatusCode
	Description	Equipment Status, coded
	Applicable Codes	
	2	Export
	3	Import
	6	Transhipment
BillOfLadingID	Ocurrence	1 .. 1
	Type	gp:BillOfLadingID
	Length	1 .. 35
	Description	Document number of the bill of lading
HandlingType	Ocurrence	0 .. 1
	Type	gp:HandlingType
	Description	Mode of transport: carriers or merchants haulage
xs:choice	Ocurrence	1 .. 1
GermanPortsID	Ocurrence	0 .. 1
	Type	gp:PartyIDType
	Length	1 .. 35

Element/Attribute	Annotations	
PartnerID	Ocurrence	0 .. 1
	Type	gp:PartyIDType
	Length	1 .. 35
	Description	Partner ID as defined in the carrier's system. Can only be used during the migration period
PartnerEmail	Ocurrence	0 .. 1
	Type	gp:Email
	Length	3 .. 70
	Description	Email Address, to which the PIN will be sent. Element is optional and will only be used during the migration period.
CustomerReferenceID	Ocurrence	0 .. 1
	Type	gp:CustomerReference
	Length	1 .. 35
	Pattern	[A-Z0-9]+
	Description	Freight Forwarder's reference.
	Example	XC4020080723CD
Vessel	Ocurrence	0 .. 1
	Type	gp:VesselType
	Description	Transport means used for this transport leg
xs:sequence	Ocurrence	1 .. 1
IMO	Ocurrence	0 .. 1
	Type	gp:TransportMeansID
	Length	1 .. 7
	Description	IMO number
CallSign	Ocurrence	0 .. 1
	Type	gp:CallSign
	Length	1 .. 7
	Description	Call sign of a vessel
Name	Ocurrence	0 .. 1
	Type	gp:TransportMeansName
	Length	1 .. 35
	Description	Name of the means of transport
VoyageNumber	Ocurrence	0 .. 1
	Type	gp:VoyageNumber
	Length	1 .. 17
	Description	Voyage number
	Remark	EDIFACT TDT/8028
Terminal	Ocurrence	0 .. 1
	Type	gp:TerminalLocation
	Description	Terminal where the container will be discharged/accepted.
xs:sequence	Ocurrence	1 .. 1
LocationID	Ocurrence	0 .. 1
	Type	gp:LocationIDType
	Length	1 .. 5
	Description	UN Location code
TerminalID	Ocurrence	0 .. 1
	Type	gp:TerminalID
	Length	1 .. 17
	Description	Terminal code as defined by SMDG. Please refer to https://smdg.org/documents/smdg-code-lists/smdg-terminal-code-list
TerminalName	Ocurrence	0 .. 1
	Type	gp:TerminalName
	Length	1 .. 35

Element/Attribute	Annotations	
	Description	The name of a terminal
ReleaseOrderReference	Ocurrence	0 .. 1
	Type	gp:ReleaseOrderReference
	Length	.. 15
	Description	Release Number. Will be removed after migration period. Final date tbd.
IssueTimeStamp	Ocurrence	0 .. 1
	Type	xs:string
	Description	Date/time of issuing
ExpirationDate	Ocurrence	0 .. 1
	Type	gp:ExpirationDate
	Description	expiration date, end of a period
ReturnLocationData	Ocurrence	0 .. 1
	Type	gp:ReturnLocationData
	Description	Information on the return of the containers
xs:sequence	Ocurrence	1 .. 1
FacilityLocation	Ocurrence	0 .. 1
	Type	gp:FacilityLocation
	Description	Return depot/ empty depot. One or more of the following elements can be transmitted.
xs:sequence	Ocurrence	1 .. 1
LocationID	Ocurrence	0 .. 1
	Type	gp:LocationIDType
	Length	1 .. 5
	Description	Specification of UNLocationCode, where the depot is located
FacilityID	Ocurrence	0 .. 1
	Type	gp:FacilityID
	Length	1 .. 9
	Description	Facilitycode of BIC. Also see https://www.bic-code.org/facility-codes/
FacilityName	Ocurrence	0 .. 1
	Type	gp:Name
	Length	1 .. 35
	Description	Name of facility (depot)
TurnInReference	Ocurrence	0 .. 1
	Type	gp:TurnInReference
	Length	.. 35
	Description	Turn in reference for empty containers.