



German Ports

Secure Release Order XML

Message implementation guideline

Version 1.0.1/E



Mattentwiete 2
20457 Hamburg
www.dakosy.de

Phone: + 49 40 37003 - 0
info@dakosy.de

dbh und DAKOSY	German Ports – Secure Release Order (XML)	
----------------	---	--

Change history

Version	Concerned section	Reason	Name	Date
1.0.0/E	All	First Version	Diettrich	20.06.2025
1.0.1/E		Terminal in adoption to Web interface now mandatory	Schwanke	29.09.2025

Change Requests

The following offices are responsible for the change service, the receipt and processing of comments and change requests for this document:

DAKOSY Datenkommunikationssystem AG

- Port Communication Services -

Mattentwiete 2
20457 Hamburg

Tel.: 040 370030, Fax: 040 37003370

AND

dbh Logistics IT AG

Martinistr. 47-49
28195 Bremen
Tel.: 0421 30902-0

Used Tools

Number	Used tools
W1	This document was created with the word processing programme MS Word 2021 .
W2	Graphics and XSD-reports have been generated by GEFEG FX 7

Liability

Please note that no liability claims can be derived towards DAKOSY AG for the content of this manual, despite careful developing and examination of this document!

Table of contents

1	Messages.....	4
1.1	Structure	4
2	Message Structure	5
3	Guideline	7

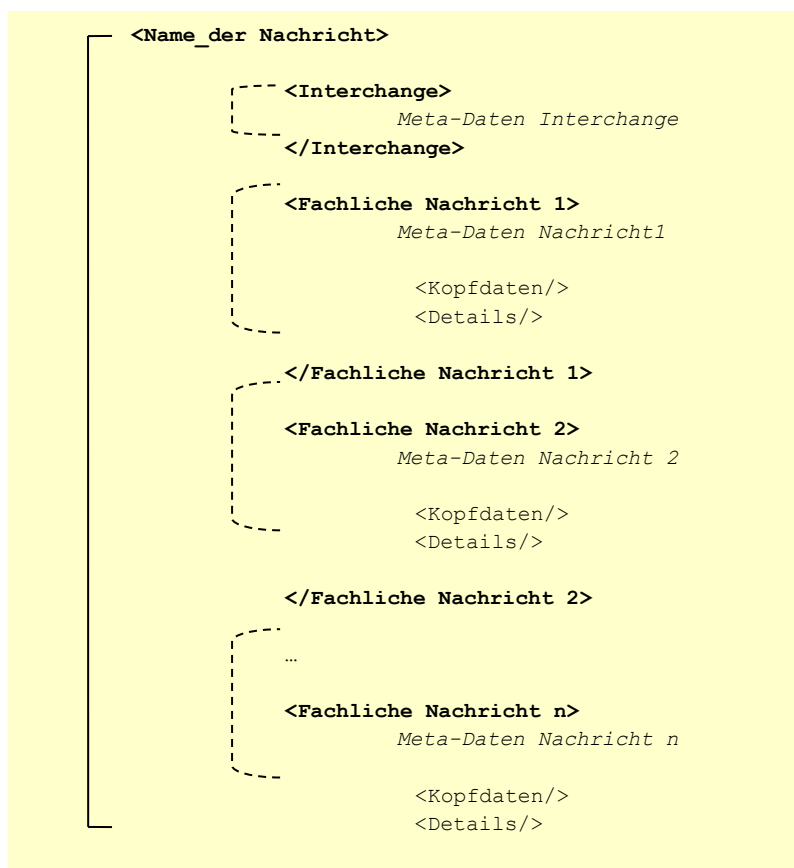
1 Messages

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:



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, notifications, release orders etc the like are not combined in a transmission, but only messages of one type – the 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
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

Ocurrence	Element/Attribute
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
1 .. 1	Terminal
1 .. 1	xs:sequence
0 .. 1	LocationID
1 .. 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
GermanPortsReleaseOrder	
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 : 2025-03-31T13:20:00 Example 2025-05-02T13:27:00
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, which is used for transferring the physical file.
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 1.0.1 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 Unique 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 Carrier code which will be the PickupRightIssuer. SMDG 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 Applicable Codes EMPTY Empty FULL Full
└ ContainerTypeISOCode	Ocurrence 0 .. 1 Type gp:ContainerTypeISOCode Length 1 .. 4 Description Container type according to ISO code system - see ISO ???
└ 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

Element/Attribute	Annotations
GermanPortsID	Occurrence 0 .. 1 Type gp:PartyIDType Length 1 .. 35 Description First releasy party. Party which shall receive the pickup right.
PartnerID	Occurrence 0 .. 1 Type gp:PartyIDType Length 1 .. 35 Description Partner ID as defined in the carrier's system Description Partner-ID, die im Sytem des Carriers verwendet wird.
PartnerEmail	Occurrence 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	Occurrence 0 .. 1 Type gp:CustomerReference Length 1 .. 35 Pattern [A-Z0-9]+ Description Freight Forwarder's reference. Example XC4020080723CD
Vessel	Occurrence 0 .. 1 Type gp:VesselType Description Transport means used for this transport leg
xs:sequence	Occurrence 1 .. 1
IMO	Occurrence 0 .. 1 Type gp:TransportMeansID Length 1 .. 7 Description IMO number
CallSign	Occurrence 0 .. 1 Type gp:CallSign Length 1 .. 7 Description Call sign of a vessel
Name	Occurrence 0 .. 1 Type gp:TransportMeansName Length 1 .. 35 Description Name of the means of transport
VoyageNumber	Occurrence 0 .. 1 Type gp:VoyageNumber Length 1 .. 17 Description Voyage number Remark EDIFACT TDT/8028
Terminal	Occurrence 1 .. 1 Type gp:TerminalLocation Description Terminal where the container will be discharged/accepted.
xs:sequence	Occurrence 1 .. 1
LocationID	Occurrence 0 .. 1 Type gp:LocationIDType Length 1 .. 5 Description UN Location code
TerminalID	Occurrence 1 .. 1 Type gp:TerminalID Length 1 .. 17

Element/Attribute	Annotations
	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 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.