



IMP

Response (XML)

Business Integration for the Port of Hamburg

Message Implementation Guide

Version 1.3/E

(Valid from November 2022)

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DAKOSY <u>Datenkommunikationssystem AG</u>	IMP – ResponseMessage (XML)	
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Change History

Version	Concerned section	Reason	Name	Datum
1.0	All	First English version	Blanken	March 2010
1.1		Layout changes	Dietrich	2013-11-25
1.2	All	<ul style="list-style-type: none"> - XSD files combined in one XSD - Addition of qualifier for freight forwarders 	Schwanke, Dietrich	2016-09-12
1.3	All	<ul style="list-style-type: none"> - New URL imp.dakosy.de - Chapter „Components“ deleted - Chapter 3.3: Addition of note regarding the schemalocation 	Schwanke	2022-09-13

Change requests

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Used tools

Number	Used tools
W1	This document was created with the word processing programme MS Word 2016 .
W2	Schema and descriptions were created with the programme GEFEG.FX 7

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1 ResponseMessage in the IMP

Similar to other EDI systems in DAKOSY, IMP features acknowledgment messages to confirm the receipt and processing status to the sender of an EDI message.

Within the Import Message Platform, these response messages have a special function when confirming the receipt of an Import Operation Instruction from the forwarder, informing him about the IMP reference number assigned to his instruction message.

IMP offers response messages in two different formats, either as an XML message (type “Response”) or an EDIFACT message of type “APERAK”. The response message will always be generated in accordance of the message acknowledged, i.e. inbound EDIFACT messages will be acknowledged with an APERAK whereas inbound XML messages will be acknowledged with an XML.

This implementation guide describes the XML Response.

2 Message content of Responses

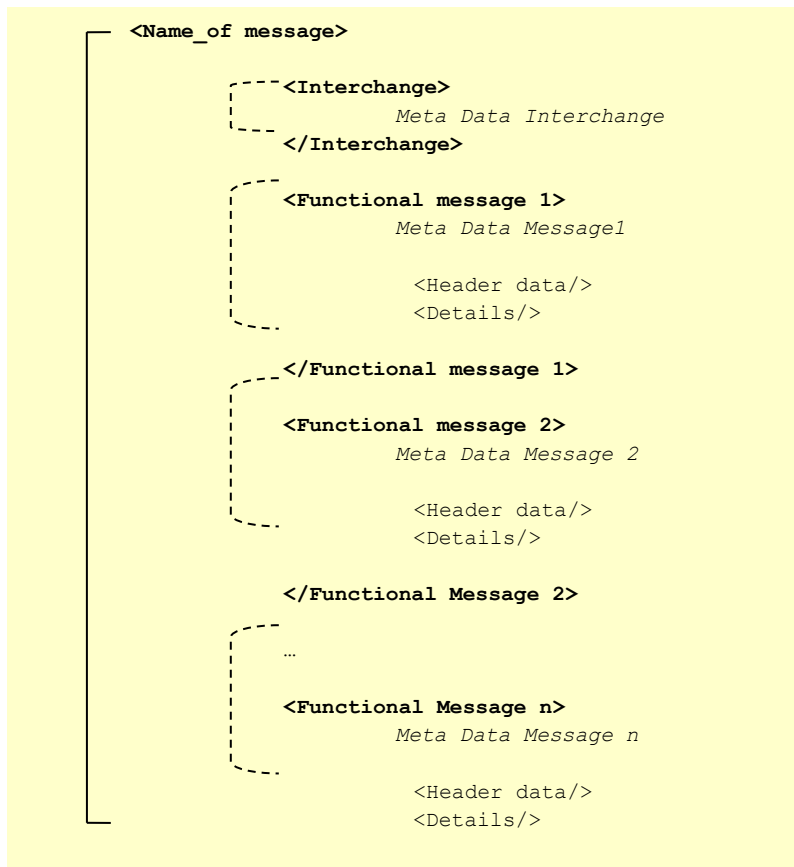
Response Messages sent from IMP contain following data items:

- Reference number (“Message Reference Number”) of the message which is being responded
- Creation date of the message which is being responded
- One or several additional references (e.g. IMP reference of the relevant process)
- (Optional) Technical contact person in case of questions concerning the Response Message
- Error code and messages (Note: The list of error codes is published separately at <https://imp.dakosy.de>)
- Further error information / Error description

3 Messages

3.1 Structure

The XML messages defined in IMP are basically composed according to the following structure:



An interchange comparable with a physical transmission file contains one or more messages. Basically only documents of the same message type are incorporated. Import operation instructions, status messages or else will not be compiled within a transmission, but exclusively messages of the same type – in the present case the import operation instructions.

Functional messages are preceded by meta information describing the data concerning the physical transmission, e.g. sender and recipient of the data set, creation of data set.

3.2 Notes for using XML namespaces

Elements of different namespaces are used within the XML version of the Import Operation Instruction. Due to technical reasons following rules are required:

- The Root-Element has to be provided with namespace prefix imp:
(`<imp:ImportOperationInstruction>...</imp:ImportOperationInstruction>`)
- All other elements have to be provided *without* namespace prefix.

3.1 SchemaLocation

In the future the Schemata of IMP will be published at the following URL:

Production: <https://schema.dakosy.de/imp>

Test: <https://schema-test.dakosy.de/imp>

The SchemaLocation in the ResponseMessage is expected to be changed to this URL in the mid November. The exact date will be communicated via the IMP newsletter.

4 XML Message structure

Occurrence	Element/Attribute
1 .. 1	xs:sequence
1 .. 1	Interchange
1 .. 1	xs:sequence
1 .. 1	CreationTime
1 .. 1	ExchangeNumber
0 .. 1	TestIndicator
0 .. 1	MessageCount
1 .. 1	Sender
1 .. 1	xs:sequence
1 .. 1	ParticipantCode
	<i>AgencyID</i>
0 .. 1	Contact
1 .. 1	xs:sequence
1 .. 1	Name
0 .. 1	Telephone
0 .. 1	Fax
0 .. 1	Email
1 .. 1	Recipient
1 .. 1	xs:sequence
1 .. 1	ParticipantCode
	<i>AgencyID</i>
0 .. 1	Contact
1 .. 1	xs:sequence
1 .. 1	Name
0 .. 1	Telephone
0 .. 1	Fax
0 .. 1	Email
1 .. 999	ResponseMessage
	<i>MessageType</i>
required	<i>MessageVersionID</i>
1 .. 1	xs:sequence
1 .. 1	MessageHeader
1 .. 1	xs:sequence
0 .. 1	MessageFunction
1 .. 1	MessageReferenceNumber
0 .. 1	PreviousMessageReferenceNumber
1 .. 1	MessageSender
1 .. 1	xs:sequence
1 .. 1	ParticipantCode
	<i>AgencyID</i>
0 .. 1	Contact
1 .. 1	xs:sequence
1 .. 1	Name
0 .. 1	Telephone
0 .. 1	Fax
0 .. 1	Email

Occurrence	Element/Attribute
1 .. 9	MessageRecipient
1 .. 1	xs:sequence
1 .. 1	ParticipantCode
	AgencyID
0 .. 1	Contact
1 .. 1	xs:sequence
1 .. 1	Name
0 .. 1	Telephone
0 .. 1	Fax
0 .. 1	Email
1 .. 1	ResponseType
0 .. 1	OriginalMessageDate
1 .. 1	OriginalMessageReferenceNumber
0 .. 1	InformationContact
	ContactTypeCode
1 .. 1	xs:sequence
1 .. 1	Name
0 .. 1	Telephone
0 .. 1	Fax
0 .. 1	Email
0 .. 999	Reference
1 .. 1	xs:sequence
1 .. 1	TypeCode
	listID
	agencyID
1 .. 1	ReferenceID
1 .. 999	Error
1 .. 1	xs:sequence
1 .. 1	ErrorCode
0 .. 99	ErrorInformation
optional	languageID

5 Guideline

Element/Attribute	Annotation
Response	Description The response is sent back to the original sender of an EDI message in order to indicate the successful or erroneous processing of that message.
xs:sequence	Occurrence 1 .. 1
Interchange	Occurrence 1 .. 1 Description Each Interchange starts with an element containing some meta information, followed by one or more messages.
xs:sequence	Occurrence 1 .. 1
CreationTime	Occurrence 1 .. 1 Description Date and time of document creation. Format : 2016-08-31T13:20:00 Example 2016-09-01T13:27:00
ExchangeNumber	Occurrence 1 .. 1 Length 1 .. 14 Description A unique reference number of an interchange. Example 000ICEN4040857
TestIndicator	Occurrence 0 .. 1 Name Test Indicator
MessageCount	Occurrence 0 .. 1 FractionDigits 0 Inclusive 1 .. Description Number of messages (elements) within the interchange
Sender	Occurrence 1 .. 1 Description Information about the party who assembled and sent an interchange
xs:sequence	Occurrence 1 .. 1
ParticipantCode	Occurrence 1 .. 1 Length 1 .. 17 Name Participant code
<i>AgencyID</i>	Default DAK
Contact	Occurrence 0 .. 1 Description Message sender's contact information
xs:sequence	Occurrence 1 .. 1
Name	Occurrence 1 .. 1 Length 1 .. 35 Description Name or department of a contact
Telephone	Occurrence 0 .. 1 Length 1 .. 35 Description Telephone communication number
Fax	Occurrence 0 .. 1 Length 1 .. 35 Description Telefax communication number
Email	Occurrence 0 .. 1 Length 3 .. 70 Description Email Address
Recipient	Occurrence 1 .. 1

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.

Element/Attribute	Annotation								
xs:sequence	Occurrence 1 .. 1								
ParticipantCode	Occurrence 1 .. 1 Length 1 .. 17 Name Participant code								
AgencyID	Default DAK								
Contact	Occurrence 0 .. 1 Description Contact Information								
xs:sequence	Occurrence 1 .. 1								
Name	Occurrence 1 .. 1 Length 1 .. 35 Description Name or department of a contact								
Telephone	Occurrence 0 .. 1 Length 1 .. 35 Description Telephone communication number								
Fax	Occurrence 0 .. 1 Length 1 .. 35 Description Telefax communication number								
Email	Occurrence 0 .. 1 Length 3 .. 70 Description Email Address								
ResponseMessage	Occurrence 1 .. 999 Description The response is sent back to the original sender of an EDI message in order to indicate the successful or erroneous processing of that message.								
MessageType	<table border="1"> <thead> <tr> <th colspan="2">Applicable Codes</th> </tr> </thead> <tbody> <tr> <td>ImpStatusRequest</td> <td>Status Request</td> </tr> <tr> <td>ImportOperationInstruction</td> <td>ImportOperationInstruction</td> </tr> <tr> <td>StatusMessage</td> <td>StatusMessage</td> </tr> </tbody> </table>	Applicable Codes		ImpStatusRequest	Status Request	ImportOperationInstruction	ImportOperationInstruction	StatusMessage	StatusMessage
Applicable Codes									
ImpStatusRequest	Status Request								
ImportOperationInstruction	ImportOperationInstruction								
StatusMessage	StatusMessage								
MessageVersionID	Fixed 1.0 Use required								
xs:sequence	Occurrence 1 .. 1								
MessageHeader	Occurrence 1 .. 1 Description The message header contains meta information about an actual message which is transmitted as part of an interchange.								
xs:sequence	Occurrence 1 .. 1								
MessageFunction	Occurrence 0 .. 1 Length .. 7 Name Message function code Description This indicator is used to mark a message as original, replacement or cancellation Example 9								
MessageReferenceNumber	Occurrence 1 .. 1 Length .. 35 Description Unique reference number identifying a single message. An interchange may contain more than one message. Example 47110815								
PreviousMessageReferenceNumber	Occurrence 0 .. 1 Length .. 35 Description For updates/cancellations (Message Function = 1 or 5), the reference number of a previous message for which an								

Element/Attribute	Annotation
	update or cancellation is sent
MessageSender	Occurrence 1 .. 1 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	Occurrence 1 .. 1
ParticipantCode	Occurrence 1 .. 1 Length 1 .. 17 Name Participant code
<i>AgencyID</i>	Default DAK
Contact	Occurrence 0 .. 1 Description Contact Information
xs:sequence	Occurrence 1 .. 1
Name	Occurrence 1 .. 1 Length 1 .. 35 Description Name or department of a contact
Telephone	Occurrence 0 .. 1 Length 1 .. 35 Description Telephone communication number
Fax	Occurrence 0 .. 1 Length 1 .. 35 Description Telefax communication number
Email	Occurrence 0 .. 1 Length 3 .. 70 Description Email Address
MessageRecipient	Occurrence 1 .. 9 Description This element contains information about a message's recipient/s.
xs:sequence	Occurrence 1 .. 1
ParticipantCode	Occurrence 1 .. 1 Length 1 .. 17 Name Participant code
<i>AgencyID</i>	Default DAK
Contact	Occurrence 0 .. 1 Description Contact Information
xs:sequence	Occurrence 1 .. 1
Name	Occurrence 1 .. 1 Length 1 .. 35 Description Name or department of a contact Example HR. MUELLER
Telephone	Occurrence 0 .. 1 Length 1 .. 35 Description Telephone communication number
Fax	Occurrence 0 .. 1 Length 1 .. 35 Description Telefax communication number
Email	Occurrence 0 .. 1 Length 3 .. 70 Description Email Address
ResponseType	Occurrence 1 .. 1 Description Type of response, can be either "functional" (similar to

Element/Attribute	Annotation				
	EDIFACT APERAK) or "technical" (similar to EDIFACT CONTRL).				
OriginalMessageDate	<p>Occurrence 0 .. 1</p> <p>Description Datum an dem die Nachricht zu der eine Response gehört EMPFANGEN wurde.</p> <p>Description Point of time when the original message (to which this response belongs) was sent</p>				
OriginalMessageReferenceNumber	<p>Occurrence 1 .. 1</p> <p>Length .. 35</p> <p>Description Reference number of the original message (the message to which this response belongs). This is the "Message Reference Number" of the original message.</p>				
InformationContact	<p>Occurrence 0 .. 1</p> <p>Description Contact Information of the person in charge at the sender of the response message</p>				
ContactTypeCode	<p>Remark Es gilt EDIFACT Codeliste 3139</p> <p>Remark Use EDIFACT Codelist 3139</p>				
xs:sequence	Occurrence 1 .. 1				
Name	<p>Occurrence 1 .. 1</p> <p>Length 1 .. 35</p> <p>Description Name or department of a contact</p>				
Telephone	<p>Occurrence 0 .. 1</p> <p>Length 1 .. 35</p> <p>Description Telephone communication number</p>				
Fax	<p>Occurrence 0 .. 1</p> <p>Length 1 .. 35</p> <p>Description Telefax communication number</p>				
Email	<p>Occurrence 0 .. 1</p> <p>Length 3 .. 70</p> <p>Description Email Address</p>				
Reference	<p>Occurrence 0 .. 999</p> <p>Description Depending on the type of message that this response applies to, numerous additional references can be sent with the Reference element(s) for easier processing. A response to an Import Operation Instruction message will *always* contain at least one Reference element which is used to transmit the IMP reference. The TypeCode within this reference element will be set to "IMP".</p>				
xs:sequence	Occurrence 1 .. 1				
TypeCode	<p>Occurrence 1 .. 1</p> <p>Name Reference code qualifier</p> <p>Description Code qualifying a reference.</p> <p>Remark Code um eine Referenzart anzugeben</p> <p>Applicable Codes</p> <table border="0"> <tr> <td>IMP</td> <td>IMP Reference</td> </tr> <tr> <td>FF</td> <td>Consignment identifier, freight forwarder assigned</td> </tr> </table> <p>[1460] Reference number assigned by the freight forwarder to identify a particular consignment.</p>	IMP	IMP Reference	FF	Consignment identifier, freight forwarder assigned
IMP	IMP Reference				
FF	Consignment identifier, freight forwarder assigned				
listID	<p>Default 3055</p> <p>Length 1 .. 9</p>				
agencyID	Default 6				

Element/Attribute	Annotation
<ul style="list-style-type: none"> └─ ReferenceID 	<p>Occurrence 1 .. 1</p> <p>Length 1 .. 35</p> <p>Description reference identifier: the kind of reference is defined in TypeCode</p>
<ul style="list-style-type: none"> └─ Error 	<p>Occurrence 1 .. 999</p> <p>Description The Error element contains information about an error which occurred while processing an EDI message.</p>
<ul style="list-style-type: none"> └─ xs:sequence 	<p>Occurrence 1 .. 1</p>
<ul style="list-style-type: none"> └─ ErrorCode 	<p>Occurrence 1 .. 1</p> <p>Length 1 .. 8</p> <p>Description A code describing the error (max. 8 digits). Code "000" means "no error", every other code indicates a certain type of error. A list of error codes can be obtained at http://www.imp-hamburg.de.</p>
<ul style="list-style-type: none"> └─ ErrorInformation 	<p>Occurrence 0 .. 99</p> <p>Length .. 70</p> <p>Description Free text information about the error.</p>
<ul style="list-style-type: none"> └─ <i>languageID</i> 	<p>Use optional</p>