- Zodiak ICS Interface (XML) -

Acknowledgement

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Change history

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1.3		VersionNumber in element <Version> is “007”	Blanken	15.10.2010
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Change requests

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Used tools

Number	Used tools
W1	This document has been created using *Microsoft Word 2010.*

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Table of contents

1 Introduction

This document describes the XML Message “Acknowledgement” which is used within the ZODIAK ICS XML Interface in order to confirm the successful processing of inbound messages or to report any functional/technical errors that might have occurred.

Each message sent to DAKOSY by a customer will be acknowledged with an Acknowledgement message. Only after a positive Acknowledgement has been generated, the customer’s message will be forwarded to customs, potentially generating a second message from customs which will be either a positive acknowledgement or a rejection.

In ZODIAK ICS, customs response messages are sent in the form of either an EntrySummaryDeclarationAck (positive reply to an EntrySummaryDeclaration or it’s update) or a CustomsAcknowledgement.

Note: General information about messages used within the ZODIAK ICS XML interface, a basic message flow diagram as well as a description of the metadata elements/types can be found in the “General Information” document for the XML Interface.

2 Data contained in Acknowledgement or Error Messages

This document describes one of the messages used by ZODIAK ICS to report the successful (or unsuccessful) processing of data back to the sender of that data.

2.1 Mapping of Acknowledgement and Error Messages to messages in ZODIAK ICS

Due to structural differences and different restrictions imposed by the EDIFACT and XML messages used for ZODIAK ICS, differences exist between the conversion of acknowledgement/error messages for the XML and EDIFACT formats. The following table describes which messages from customs/DAKOSY are converted into which type of message before being sent to the customer:

Message	Description	XML Message	EDIFACT Message
E_ENS_ACK, E_ENS_AAC, E_EXS_ACK	Customs Acknowledgement of Exit Summary Declaration, ENS or ENS Amendment	EntrySummaryDeclarationAck	IFTMCS “ACK”
E_ENS_REJ, E_ENS_ARJ, E_EXS_REJ	Customs Rejection of Exit Summary Declaration, ENS or ENS Amendment	CustomsAcknowledgement	APERAK
E_DIV_ACK, E_DIV_REJ	Acceptance or Rejection of a diversion request	CustomsAcknowledgement	APERAK
E_ARN_VAL, E_ARI_REJ	Acceptance or Rejection of an arrival notification / an arrival item	CustomsAcknowledgement	APERAK
--	Response Message from DAKOSY	Acknowledgement	APERAK
E_ENS_STA	Status Message	Customs Acknowledgement	APERAK

The purpose of these “multi use” messages can be determined based on the contents of certain data fields within the messages. An exact description of those data fields can be found in the format-specific sections of the respective guide.

2.2 Error Codes

A list of the error codes sent by DAKOSY will be made available on http://www.dakosy.de. The error codes sent by the different customs agencies in Europe are currently not published, therefore DAKOSY cannot provide a comprehensive list of these codes.

3 Elements used within the Acknowledgement Message

Within ZODIAK ICS only few elements of the Acknowledgement message are used. These are:

3.1 // Acknowledgement/TransactionReference

This field contains the IOReference of the message which is acknowledged.

3.2 //Acknowledgement/TechnicalAcknowledgements/ TechnicalAcknowledgement

This field contains the result of technical checks at DAKOSY. It's value will be either OKAY or ERROR. If it is ERROR, element TechnicalErrors/TechnicalError will contain an error description.

3.3 //Acknowledgement/FunctionalAcknowledgements/ FunctionalAcknowledgement

This field contains the result of technical checks at DAKOSY. It's value will be either OKAY or ERROR. If it is ERROR, element FunctionalErrors/FunctionalError will contain an error description

4 Message Structure

Occurrence	Element/Attribute
1 .. 1	xs:sequence
1 .. 1	**Transaction**
1 .. 1	xs:sequence
1 .. 1	**IOPartner**
0 .. 1	**IODivision1**
0 .. 1	**IODivision2**
0 .. 1	**IODivision3**
0 .. 1	**OrgUnit**
1 .. 1	**IOReference**
1 .. 1	**IODateTime**
1 .. 1	**Version**
1 .. 1	**Messages**
1 .. 1	xs:sequence
1 .. 1	xs:choice
0 .. 1	**Acknowledgement**
1 .. 1	xs:sequence
1 .. 1	**TransactionReference**
1 .. 1	**AcknowledgementObject**
1 .. 1	xs:sequence
1 .. 1	**TechnicalAcknowledgements**
1 .. 1	xs:sequence
1 .. unbounded	**TechnicalAcknowledgement**
1 .. 1	xs:sequence
0 .. 1	**TechnicalObjectID**
0 .. 1	**TechnicalObjectReference**
1 .. 1	**Result**
0 .. 1	**TechnicalErrors**
1 .. 1	xs:sequence
1 .. unbounded	**TechnicalError**
0 .. 1	**Corrections**
1 .. 1	xs:sequence
1 .. unbounded	**Correction**
0 .. 1	**Reason**
0 .. 1	**ValidationErrors**
1 .. 1	xs:sequence
1 .. unbounded	**ValidationError**
1 .. 1	**FunctionalAcknowledgements**
1 .. 1	xs:sequence
1 .. unbounded	**FunctionalAcknowledgement**
1 .. 1	xs:sequence
0 .. 1	**FunctionalObjectID**
0 .. 1	**FunctionalObjectReference**
1 .. 1	**Result**
0 .. 1	**ResultReason**
0 .. 1	**SuccessfulActions**
1 .. 1	xs:sequence
1 .. 10	**SuccessfulAction**
0 .. 1	**FailedActions**
1 .. 1	xs:sequence

Occurrence	Element/Attribute
1 .. 10	└ **FailedAction**
0 .. 1	**ApplicationErrors**
1 .. 1	xs:sequence
1 .. unbounded	└ **ApplicationError**

5 Guideline

Element/Attribute	Annotation	
ICSMessage		
xs:sequence	Occurence	1 .. 1
Transaction	Occurence	1 .. 1
xs:sequence	Occurence	1 .. 1
IOPartner	Occurence Length	1 .. 1 .. 10
IODivision1	Occurence Length	0 .. 1 .. 10
IODivision2	Occurence Length	0 .. 1 .. 10
IODivision3	Occurence Length	0 .. 1 .. 10
OrgUnit	Occurence Length	0 .. 1 .. 256
IOReference	Occurence Length	1 .. 1 .. 35
IODateTime	Occurence	1 .. 1
Version	Occurence Length Pattern Remark	1 .. 1 .. 3 006|007 This field should contain the following value: 007
Messages	Occurence	1 .. 1
xs:sequence	Occurence	1 .. 1
xs:choice	Occurence	1 .. 1
Acknowledgement	Occurence Remark Description	0 .. 1 The message type "Acknowledgement" is used to report technical or functional errors. Aus der Box
xs:sequence	Occurence	1 .. 1
TransactionReference	Occurence Length Remark	1 .. 1 .. 35 The TransactionReference element refers to the IOReference of the original message whcih is acknowledged/rejected.
AcknowledgementObject	Occurence	1 .. 1
xs:sequence	Occurence	1 .. 1
TechnicalAcknowledgements	Occurence	1 .. 1
xs:sequence	Occurence	1 .. 1
TechnicalAcknowledgement	Occurence Description	1 .. unbounded Type of error (technical or functional)
xs:sequence	Occurence	1 .. 1
TechnicalObjectID	Occurence FractionDigits TotalDigits Inclusive Pattern Description	0 .. 1 0 6 0 .. \d{6} Reference to the inbound message object
TechnicalObjectReference	Occurence Length Description	0 .. 1 1 .. 35 Local reference number of inbound message
Result	Occurence Length Description	1 .. 1 .. 35 Result of technical checks
TechnicalErrors	Occurence	0 .. 1
xs:sequence	Occurence	1 .. 1
TechnicalError	Occurence Length	1 .. unbounded .. 100

Element/Attribute	Annotation	
	Description	Textual description of any technical errors which occured
Corrections	Occurence	0 .. 1
xs:sequence	Occurence	1 .. 1
Correction	Occurence	1 .. unbounded
	Length	.. 100
	Description	Textual description of corrections leading to an *INFO severity
Reason	Occurence	0 .. 1
	Length	.. 100
	Remark	Textual description of the reason for a complete rejection
ValidationErrors	Occurence	0 .. 1
xs:sequence	Occurence	1 .. 1
ValidationError	Occurence	1 .. unbounded
	Length	.. 500
	Description	Result of schema validation
FunctionalAcknowledgements	Occurence	1 .. 1
xs:sequence	Occurence	1 .. 1
FunctionalAcknowledgement	Occurence	1 .. unbounded
xs:sequence	Occurence	1 .. 1
FunctionalObjectID	Occurence	0 .. 1
	FractionDigits	0
	TotalDigits	6
	Inclusive	0 ..
	Pattern	\d{6}
	Description	References the object id of the erroneous inbound object (technical reference)
FunctionalObjectReference	Occurence	0 .. 1
	Length	.. 35
	Description	Local Reference Number of the inbound message
Result	Occurence	1 .. 1
	Length	.. 35
	Remark	Contains the result of functional checks at DAKOSY. In ZODIAK ICS either *OKAY or *ERROR.
	Applicable Codes	
	ERROR	
	OKAY	
	WARNING	
ResultReason	Occurence	0 .. 1
	Length	.. 100
	Description	Reason / Result information
SuccessfulActions	Occurence	0 .. 1
xs:sequence	Occurence	1 .. 1
SuccessfulAction	Occurence	1 .. 10
	Length	.. 10
	Description	Successful actions
FailedActions	Occurence	0 .. 1
xs:sequence	Occurence	1 .. 1
FailedAction	Occurence	1 .. 10
	Length	.. 10
	Description	Failed actions
ApplicationErrors	Occurence	0 .. 1
xs:sequence	Occurence	1 .. 1
ApplicationError	Occurence	1 .. unbounded
	Length	.. 100
	Description	Application Error Information

6 Further information on ICS / ECS

On the EU's web site, a number of documents describe the specifics of ICS and ECS. Along with some FAQ documents, one can also find examples how to handle certain scenarios such as slot-chartering agreements or short shipped containers:

http://ec.europa.eu/ecip/security_amendment/procedures/index_en.htm

Another web site contains the original text of the Annex 30a, a document describing the changes to the EU customs codex which form the basis for the ICS and ECS regulations:

http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2006:360:0064:0125:EN:PDF