

ALSO



eBusiness Integration

XML Guideline

Version: 2.40

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1. General Information

1.1 Intention of this document

This document describes the technical specification for the development of the ALSO Deutschland / partner interface in order to connect the corresponding enterprise resource planning (ERP) systems.

1.2 Explanation to the tables

All elements for the messages are explained in a table:

- **Column 1: defines the element (tag or attribute) with hierarchy level.** The hierarchical levels are displayed with the pipe sign „ | ” for a tag. Attributes are displayed cursive with the „ L ” sign. For Example:

XML Tags / Attribute	Description
-- DateStamp	This is a XML tag named DateStamp, which is two levels below the root element.
Ltype="Message Request"	This is an attribute named type, which belongs to the XML tag DateStamp. The Possible value for the attribute type is Message or Request.

Notice: Normally, the possible value for the attribute is fixed the specification.

- **Column 2: defines the number of iterations for the elements.** Examples:

- 0..1 The element can occur once or not once.
- 1 The element must occur once.
- 0..n The element can occur multiple or not once.
- 1..n The element must occur at least once and to a maximum of n.

Notice: If a tag does not contain an iteration or format description within this specification, there will be no data expected. It is just an introduction for another block of data (tag).

- **Column 3: defines the data type for an element.** The following data types are used:

- S: String
- N: Numeric value
- D: Date value

- **Column 4: defines the format for the data type.**

- At strings: Maximum field length
- At numeric values: digits before and after the comma, decimal separator is a point
- bei Datumswerten: maximum field length

Notice: If a Tag does not contain an iteration or format description within this specification, there will be no data expected. It is just an introduction for another block of data (tag).

- **Column 5: describes the content of an element,** maybe with example.

1.3 Contacts at ALSO Group

If you have any technical questions to this specification please contact your contact person at the eBusiness Integration Team or use the email address: b2b@also.com.

2. Business processes

2.1 Message overview

On this section the available messages will be described, which can be exchanged between partners.

Category	From ALSO to partner	From partner to ALSO	Message
V. / Price	→		webService PriceAvailability
Messages		←	Orders
	→		Order Response
		←	Order Change
	→		Delivery Notes
	→		Invoice
		←	Remittance Advice

2.1.1 Webservice PriceAvailability

You can require real-time prices as well as the product availability information from ALSO by using the PriceAvailability service.

2.1.2 Orders

The partner sends an electronic order to ALSO. Following order types are possible:

- Normal order
- Special handling (i.e. TPDIS, TPCOD, configuration, licences, etc.)

2.1.3 Order Response

Order responses will be processed directly after handling the original entry. They are separated in two different characteristics:

- Initial order response
- Confirmation of a changed order

2.1.4 Order Change

It is possible to change an already send order by using the order change message. You can change all orders specified at 2.1.2.

Possible changes are:

- Change of ordered quantity
- Change of dates

2.1.5 Delivery

ALSO will send a dispatch notification after the goods issue posting. Following information will be send:

- Delivered quantity
- Schedules on position
- Packing units
- Serial shipping container code (SSCC)
- Serial numbers
- Shipper
- Tracking information

2.1.6 Invoice

After goods issue ALSO will send electronic invoice messages. Delivered quantities and prices will be transmitted. An additional invoice will be send by mail.

2.1.7 Remittance Advice

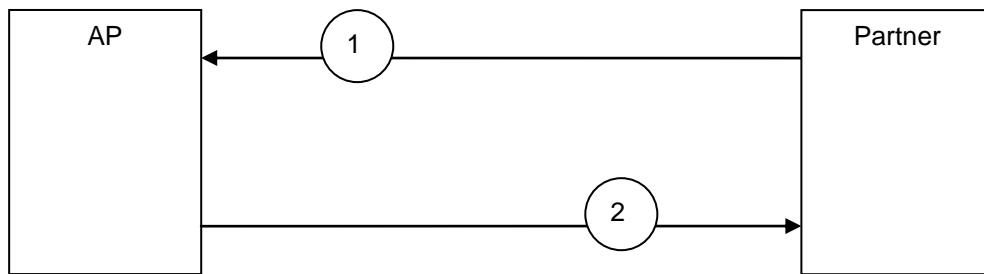
The advice of settlement is used to assure the assignment of a payment transaction. For transmitting the remittance advice message it is required, that a partner received also the invoice message from ALSO, since the advice of settlement references the invoice message.

2.1.8 Return Notification

In case of return shipments the message return notification contains information about the product condition. If applicable it will contain information about the reason for return as well. Partner will receive this message after goods receipt posting from ALSO. The use of this message is based on a bilateral agreement.

2.2 Example for communication process

This example shows the processing of the messages order / order response.



1. Message orders is send to ALSO
2. Message order response is send by ALSO after successful processing of the order

3. Communication parameter

3.1 Coding for the XML messages

All XML outgoing messages from ALSO Deutschland are encoded in UTF-8. The incoming XML order or order change messages are mandatory expected in UTF-8, UTF-18 or ISO 8859-1.

The declaration for the encoding has to be written within the XML prologue. Here is an example for an UTF-8 encoded message:

```
<?xml version="1.0" encoding="UTF-8"?>
<Order>
  [...]
</Order>
```

3.2 Communication protocols

3.2.1 Incoming messages (Partner → ALSO Deutschland)

HTTPS:

For the data transference the preferred protocol is HTTPS. Please keep in mind that ALSO Deutschland accepts only incoming messages over the HTTP standard port 443.

AS2:

Alternatively we do also accept AS2 as a communication protocol. AS2 provides a secure transport over HTTPS, an optional digital signature, message encryption as well as synchronous/ asynchronous message disposition notification (MDN).

Incoming messages can be signed with SHA-1 or MD5. The following encryption algorithms are supported: Triple DES, DES or RC2 (40 bit, 64 bit or 128 bit).

FTP:

After a mutual agreement it is also possible to use an ALSO Deutschland FTP server.

3.2.2 Outgoing messages (ALSO Deutschland → Partner)

HTTP(S):

The HTTP protocol is used for the message transference. For the outgoing messages an unencrypted HTTP communication over port 80 or an encrypted communication over port 443 can be used.

AS2:

Alternatively we do also accept AS2 as a communication protocol. AS2 provides a secure transport over HTTPS, an optional digital signature, message encryption as well as synchronous/ asynchronous message disposition notification (MDN).

For the outgoing message encryption (Triple DES, DES or RC2 (40 bit, 64 bit or 128 bit)) and signing (SHA-1) is S/MIME version 2 used.

FTP:

After a mutual agreement it is also possible to use an FTP server.

SMTP:

After a mutual agreement the messages can be sent to a given email address as an attachment.

3.3 Requirements for HTTP communication

3.3.1 MIME Header

For the correct message transference and routing the following content types and mime header declarations are expected:

```
Content-Type: text/xml; charset="utf-8"  
<?xml version="1.0" encoding="utf-8">
```

→ This is the recommended charset for the use of text/xml. Alternatively, the charset inside the mime header can also be left out:

```
Content-Type: text/xml  
<?xml version="1.0" encoding="utf-8">
```

Further information at: www.faqs.org/rfcs/rfc2376.html

3.3.2 HTTP Methods

Through a method the server knows how to handle the incoming request. The Method sends data for further processing to the server.

This means ALSO Deutschland sends all outgoing messages with the HTTP post method. The incoming messages are also expected in form of the HTTP post method from the partner.

3.3.3 HTTP Status codes

A HTTP status code tells the client how the request has been processed. HTTP status codes are in the first line of HTTP data for a request. In the following example the status code is 200: „HTTP/1.0 200 OK“.

The client will receive a HTTP status code 200 if ALSO Deutschland received the message successfully. ALSO Deutschland also expects a 200 code if the partner has received a message successfully.

Status code table:

Overall Range	Defined Range	Category
100-199	100-101	Informational
200-299	200-206	Successful
300-399	300-305	Redirection
400-499	400-415	Client Error
500-599	500-505	Server Error

Further information under: http://www.helpwithpcs.com/courses/html/html_http_status_codes.htm.

3.4 Authentication

3.4.1 Incoming messages (Partner → ALSO Deutschland)

In order to identify the partner an authentication is expected for all incoming messages. For this purpose the HTTP basic authentication is used. The user name and password must be encoded through base 64 within the authentication header which is situated within the mime header. An example:

```
Content-Type: text/xml
Authorization: Basic VXNlcjcm5hbWU6UGFzc3dvcnQ=
```

Further information to the basic authentication under:
http://www.bolege.de/http-header/#art2_authorization.

A base64 encoder/ decoder can be found under:
<http://www.motobit.com/util/base64-decoder-encoder.asp>

Alternatively a certificate based client authentication (x.509v3 certificate) can be used.

3.4.2 Outgoing messages (ALSO Deutschland → Partner)

Dependent on the partner receiving system, an authentication can be done when sending messages for the sender (here ALSO Deutschland). HTTP basic authentication as well as certificate based client authentication (x.509v3 certificate) is possible.

3.5 Partnernumber

ALSO Deutschland prefers for the sender and receiver identification a company overlapping number (ILN) within the <SenderEnvelope>.

For ALSO Deutschland following ILNs are in use:

ALSO Deutschland GmbH (DE)	4005922010102
ALSO Austria GmbH	4005922022006
ALSO B.V. (NL)	4005922024000
ALSO A/S (DK)	4005922028008
ALSO AB (SE)	4005922031008
ALSO AS (NO)	4005922029005
ALSO Finland Oy (FI)	4005922057107
ALSO Estonia AS (EE)	4005922051105

A partner can alternatively use the DUNS if an ILN does not exist. This number can be applied without any costs incurred:

www.upik.de/en/upik_anfrage.cgi?new=1

Shouldn't exist neither an ILN nor a DUNS it is possible to use the ALSO Deutschland customer ID for the partner identification.

3.6 Receive parameters for the ALSO Deutschland HTTP gateways

ALSO Deutschland has two systems (test and productive) for receiving the messages:

Test mode: https://b2b-test.actebis.com/Invoke/ActDelivery_HTTP.Inbound/receiveXML
Productive mode: https://b2b.actebis.com/Invoke/ActDelivery_HTTP.Inbound/receiveXML

Please note the information for transference under 3.1 - 3.4.

4. Message description

4.1 Message ReceiptAcknowledgement (up to 2.10)

4.1.1 Process description

The message ReceiptAcknowledgement can be sent back after receiving an incoming message through the HTTP gateway (Order or OrderChange) as a receiving acknowledgement. The transmission takes place in a separate sending session.

The ReceiptAcknowledgement shows the partner that the incoming document was successfully validated and will be forwarded to the backend system.

4.1.2 Tabular message description

XML Tags / Attributes	It.	Type	Length	Description
ReceiptAcknowledgement	1			Root element
-- SenderEnvelope	1			Sender envelope
-- SenderID	1	S	13	Unique sender-ID for the message
-- ReceiverID	1	S	13	Unique receiver-ID for the message
-- DateStamp	1	D	8	Time stamp YYYYMMDD
-- L:type="Message"				Message creation date
-- VersionID	1	S	5	Version for the specification, e.g. 2.30
-- ControlNumber	0..1			Not used in this message
-- Header	1			ReceiptAcknowledgement header data
-- Status	1	S	10	Status for incoming message
-- DocumentReference	1			Reference data
-- DocumentNumber	1	S	35	Document number
-- L:type="PurchaseOrder"				Purchase order number

4.1.3 Code list

XML Tag	Allowed Values	Description
Status	Accept	Validation successful, document will be forwarded to ALSO Deutschland backend system

4.2 Message ReceiptAcknowledgementException (up to 2.10)

4.2.1 Process description

The message ReceiptAcknowledgementException can be sent back after receiving an incoming message through the HTTP gateway (Order or OrderChange) as a receiving acknowledgement. The transmission takes place in a separate sending session.

The ReceiptAcknowledgementException shows the partner that the incoming document is not valid. In conclusion, the document could not be forwarded to the backend system. It has to be corrected and resent. The ReceiptAcknowledgementException contains as far as available further information to the failure cause.

4.2.2 Tabular message description

XML Tags / Attributes	It.	Type	Length	Description
ReceiptAcknowledgementException	1			Root element
-- SenderEnvelope	1			Sender envelope
-- SenderId	1	S	13	Unique sender-ID for the message
-- ReceiverID	1	S	13	Unique receiver-ID for the message
-- TimeStamp	1	D	8	Time stamp YYYYMMDD
type="Message"				Message creation date
-- VersionID	1	S	5	Version for the specification, e.g. 2.30
-- ControlNumber	0..1			Not used in this message
-- Header	1			ReceiptAcknowledgementException header
-- Data				Data
-- Status	1	S	10	Status for incoming message
-- DocumentReference	1			Reference data
-- DocumentNumber	1	S	35	Document number
type="PurchaseOrder"				Purchase order document number
-- Error	1..n			Validate errors
-- PathName	0..1	S	200	Path within the incoming message where the error has occurred
-- ErrorCode	0..1	S	100	Error code
-- ErrorMessage	1	S	500	Textual description for the validate error

4.2.3 Code list

XML Tag	Allowed Values	Description
Status	Reject	Validate error, document can not be processed

4.3 Message StockInfo (up to 2.20)

4.3.1 Process description

The message StockInfo includes the products of the PriceCatalogue with hourly updated stock. The message is available in your FTP account.

4.3.2 Tabular message description

XML Tags / Attributes	It.	Type	Length	Description
StockInfo	1			Root element
-- SenderEnvelope	1			Sender envelope
-- SenderId	1	S	13	Unique sender-ID for the message
-- ReceiverID	1	S	13	Unique receiver-ID for the message
-- TimeStamp	1	D	8	Time stamp YYYYMMDD
type="Message"				Message creation date
-- VersionID	1	S	5	Version for the specification, e.g. 2.30
-- ControlNumber	0..1			Not used in this message
-- LineItem	1..n			Line item data
-- ProductNumber	1	N	18,0	Product number
type="Distributor"				ALSO Deutschland product number
-- Quantity	1	N	6,0	Quantity
type="Stock"				Stock quantity (ATP)
-- AvailableNextDate	1	D	8	Next supply
type="Distributor"				Next supply date

4.4 Message Order (up to 2.40)

4.4.1 Process description

If the order message is received over the HTTP gateway, it is directly forwarded into the SAP system, an IDoc will be created and booked in the SAP system. An order response will be sent back after the order could be successful created and booked into the SAP system (condition: the order is not blocked).

4.4.2 Tabular message description

Notice: Fields that are marked with the * can only use the values from the code list in chapter 4.4.3

XML Tags / Attributes	It.	Type	Length	Description
Order	1			Root element
 -- SenderEnvelope	1			Sender envelope
-- SenderID	1	S	13	Unique sender-ID for the message
-- ReceiverID	1	S	13	Unique receiver-ID for the message
-- DateStamp	1	D	8	Time stamp YYYYMMDD
└type="Message"				Message creation date
-- VersionID	1	S	5	Version for the specification, e.g. 2.30
-- ControlNumber	0..1	N	10,0	Sequential control number per message
 -- Header	1			Order header data
-- OrderType	1	S	10	Order type*
-- DocumentReference	1			Reference data
-- DocumentNumber	1	S	35	Document number
└type="PurchaseOrder"				Purchase order number
-- DateStamp	1	D	8	Time stamp YYYYMMDD
└type="PurchaseOrder"				Purchase order date
-- DocumentReference	0..1			Reference data
-- DocumentNumber	1	S	35	Document number
└type="EndCustomer"				Order number of end customer; is required by some manufactures (Microsoft, Symantec) for the licence process
-- PartnerDescription	1			Partner address information
└type="Buyer"				Partner role buyer
-- PartnerNumber	0..1	S	17,0	ALSO Deutschland debtor number (Mandatory if no ILN is used)
-- PartnerNumber	0..1	N	13,0	ILN (Mandatory if no ALSO Deutschland debtor number is Is used)
-- ContactInformation	0..1			Contact data
└type="Buyer"				Buyer
-- ContactName	1	S	35	Contact Name 1
-- ContactName2	0..1	S	35	Contact Name 2
-- ContactPhone	0..1	S	35	Contact Phone number
-- ContactFax	0..1	S	35	Contact Fax number
-- ContactMail	0..1	S	70	Contact e-mail adress
-- PartnerDescription	1			Partner address information
└type="DeliveryParty"				Partner role delivery party
-- PartnerNumber	0..1	S	17,0	ALSO Deutschland debtor number (Mandatory if no ILN is used)
-- PartnerNumber	0..1	N	13,0	ILN (Mandatory if no ALSO Deutschland debtor number is Is used)
-- PartnerNumber	0..1	S	35	Partner number Partner number of the customer Note: currently not in work!
-- PartnerName1	0..1	S	35	Name 1 for partner role (only when using alternative address for delivery)

-- PartnerName2	0..1	S	35	Name 2 for partner role
-- PartnerName3	0..1	S	35	Name 3 for partner role
-- PartnerName4	0..1	S	35	Name 4 for partner role
-- PartnerAddress	0..1	S	35	Street for partner role
-- PartnerPostalCode	0..1	N	9,0	Postal code for partner role
-- PartnerCity	0..1	S	35	City for partner role
-- PartnerCountryCode	0..1	S	3	ISO Country code for partner role, e.g. DE
-- CompleteDelivery	0..1	S	3	Complete delivery sign* (Yes or No)
-- DeliveryBlock	0..1	S	3	Delivery block* (Yes or No)
-- ShippingTerms	1	S	10	Shipping terms*
-- Comments Ltype="Information"	0..1	S	70	Header text Information, not printable
-- Information Ltype="Line1 ... Line10"	1..10	S	70	Header text 1-10
-- ProjectInformation	0..1			Contact data Important: A contact number in the header forbids an application on the position level (and backwards)! Contract number ALSO Deutschland (mandatory if no manufacturer contract number is used)
-- ProjectIdentifier Ltype="Distributor"	0..1	S	35	Contract number manufacturer (Deal ID or SBO), e.g. 70569730-001 DE-ACCGS-5HUMHP- 2-I2 Mandatory if no ALSO Deutschland contact number is used
-- ProjectIdentifier Ltype="Manufacturer"	0..1	S	35	Contract number manufacturer (Deal ID or SBO), e.g. 70569730-001 DE-ACCGS-5HUMHP- 2-I2 Mandatory if no ALSO Deutschland contact number is used
-- ProjectDescription	0..1	S	35	Project specification – deal reference or end user; example: OPG-11FEB03-EUR
-- ProjectManufacturer	0..1	S	3	Contract manufacturer: HP or IBM
-- Services	0..1			Logistic services
-- Distribution	0..1			Shipping for a third party
-- Required	1	S	3	Service required* (Yes or No)
-- DeliveryNoteData	0..1			Data for the press proof of the delivery note; the allocation of the lines have to be bilateral agreed (6084)
-- Information Ltype="Line1 ... Line8"	1..8	S	35	Reference text for press proof on the delivery note
-- DeliveryNoteLanguage	0..1	S	2	Language code for multilingual delivery note
-- DeliveryNoteNumber	0..1	N	2,0	Number for the delivery note if using many TPDIs delivery notes
-- Comments Ltype="Delivery"	0..1			Header text for print out on delivery note
-- Information Ltype="Line1 ... Line20"	1..20	S	70	Header text 1-20
-- Consignment	0..1			Consignment handling
-- Required	1	S	3	Service required* (yes or no)
-- ConsignmentType	1	S	8	Consignment type (internal or external)
-- ConsignmentSpecification	1	S	8	Consignment FillUp or TakeFrom Partner address for the management of consignment stocks
-- PartnerDescription Ltype="Consignment"	0..1			Handling
-- PartnerNumber Ltype="Distributor"	0..1	S	17	ALSO Deutschland debtor number (Mandatory if no ILN is used)
-- PartnerNumber Ltype="ILN"	0..1	N	13,0	ILN (Mandatory if no ALSO Deutschland debtor number is used)
-- PartnerNumber Ltype="Buyer"	0..1	S	35	Buyer partner number
-- PartnerName1	0..1	S	35	Name 1 for partner role

-- PartnerName2	0..1	S	35	Name 2 for partner role
-- PartnerName3	0..1	S	35	Name 3 for partner role
-- PartnerName4	0..1	S	35	Name 4 for partner role
-- PartnerAddress	0..1	S	35	Street for partner role
-- PartnerPostalCode	0..1	S	9	Postal code for partner role
-- PartnerCity	0..1	S	35	City for partner role
-- PartnerCountryCode	0..1	S	3	ISO Country code for partner role, e.g. DE
-- RequestedDeliveryDate	0..1			Service delivery date
-- Required	1	S	3	Service required* (Yes or No)
-- DateStamp	1	D	8	Date stamp YYYYMMDD
<i>Ltype="Request"</i>				Requested delivery date
-- CashOnDelivery	0..1			Cash on delivery handling
-- Required	1	S	3	Service required* (Yes or No)
-- MonetaryAmount	0..1	N	10,2	Amount
<i>Ltype="SumDelivery"</i>				Cash on delivery amount
-- Prepayment	0..1			Advance payment (bilateral agreed)
-- Required	1	S	3	Service requires* (Yes or No)
-- ECarePack	0..1			ECare-Packs
-- Required	1	S	3	Service requires* (Yes or No)
-- PartnerDescription	1			Partner address
<i>Ltype="WarrantyUser"</i>				Partner role delivery party
-- PartnerNumber	0..1	S	17	ALSO Deutschland debtor number
<i>Ltype="Distributor"</i>				(Mandatory if no ILN is used)
-- PartnerNumber	0..1	N	13,0	ILN
<i>Ltype="ILN"</i>				(Mandatory if no ALSO Deutschland debtor number is used)
-- PartnerName1	1	S	35	Name 1 for partner role
-- PartnerName2	0..1	S	35	Name 2 for partner role
-- PartnerName3	0..1	S	35	Name 3 for partner role
-- PartnerName4	0..1	S	35	Name 4 for partner role
-- PartnerAddress	1	S	35	Street for partner role
-- PartnerPostalCode	1	S	9	Postal code for partner role
-- PartnerCity	1	S	35	City for partner role
-- PartnerCountryCode	1	S	3	ISO Country code for partner role, e.g. DE
-- ContactInformation	1			Contact data
<i>Ltype="DeliveryParty"</i>				Buyer
-- ContactName	1	S	35	Contact name 1
-- ContactName2	0..1	S	35	Contact name 2
-- ContactPhone	0..1	S	35	Contact phone
-- ContactFax	0..1	S	35	Contact fax
-- ContactMail	0..1	S	70	Contact e-mail address
-- ReferenceNumber	1	S	35	Reference data
<i>Ltype="EndCustomerNumber"</i>				Endcustomer number
-- ReferenceNumber	0..1	S	35	Reference data
<i>Ltype="CSNNumber"</i>				HP CSN number at the Reseller scenario; Format: Optional CSN#: CSN number
-- Refinement	0..1			Refinement; Service have to be agreed
-- Required	1	S	3	Service requires* (Yes or No) required field data may be different between the producers!
-- Configuration	0..1			TopConfig ; Service has to be agreed
-- Required	1	S	3	Service requires* (Yes or No)
-- SpecialDealID	0..1	S	15	Example: Deal-ID HP
-- SpecialDealVersion	0..1	S	3	Example: Version of OPG HP
-- ConfigurationID	0..1	S	15	Example: Config-/Bundle-ID HP
-- ConfigManufacturer	0..1	S	35	Manufacture configuration
-- PartnerDescription	1			Partner address
<i>Ltype="DeliveryParty"</i>				Partner role delivery party
-- PartnerNumber	0..1	S	17	ALSO Deutschland debtor number

	<i>Ltype="Distributor"</i>				(Mandatory if no ILN is used)
-- PartnerNumber	0..1	N	13,0	ILN	(Mandatory if no ALSO Deutschland debtor number is used)
-- <i>Ltype="ILN"</i>					
-- PartnerName1	1	S	35	Name 1 for partner role (only when using alternative address for delivery)	
-- PartnerName2	0..1	S	35	Name 2 for partner role	
-- PartnerName3	0..1	S	35	Name 3 for partner role	
-- PartnerName4	0..1	S	35	Name 4 for partner role	
-- PartnerAddress	1	S	35	Street for partner role	
-- PartnerPostalCode	1	S	9	Postal code for partner role	
-- PartnerCity	1	S	35	City for partner role	
-- PartnerCountryCode	1	S	3	ISO Country code for partner role, e.g. DE	
-- ContactInformation	1			Contact data	
-- <i>Ltype="DeliveryParty"</i>				Buyer	
-- ContactName	1	S	35	Contact name 1	
-- ContactName2	0..1	S	35	Contact name 2	
-- ContactPhone	0..1	S	35	Contact phone	
-- ContactFax	0..1	S	35	Contact fax	
-- ContactMail	0..1	S	70	Contact e-mail address	
-- LicenceInformation	0..1			Licence data, Service is only available after former agreement!	
-- Required	1	S	3	Service requires* (Yes or No)	
-- LicenceIdentifier	1			Licence field ALSO Deutschland: The filling of the fields depend on the licence type and the manufacturer.	
-- ContractType	0..1	S	7	Contract Type, Example: OPEN (=MS Open), OV (=MS Open-Value) ...	
-- ContractNumber	0..1	S	20	Contact number	
-- LicenceLevel	0..1	S	5	Licence Level	
-- MSOpenPool	0..1	S	1	MS OpenPool	
-- MSBranchEndCustomer	0..1	S	2	MS Branch of the customer	
-- ReOrder	0..1	S	3	Re-Order (Yes or No), Example Open-Value	
-- DateStamp	0..1	S	8	Contract startdate	
-- <i>Ltype="ContractStartDate"</i>					
-- SpecialPrice	0..1	S	3	Special Price (Yes or No)	
-- SpecAgreementNumber	0..1	S	20	Special Deal No	
-- SecContractNumber	0..1	S	7	2. Contact number (Symantec)	
-- LicenceDescription	0..1	S	35	Licence description, Example MS Open	
-- LicenceManufacturer	0..1	S	35	Microsoft, Symantec ...	
-- PartnerDescription	1			The different licence type offers different input for the partner data fields, therefor the conditional marked fields can be mandatory for each manufacture.	
-- <i>Ltype="Buyer"</i>				Partner address information	
-- PartnerNumber	0..1	S	17	Partner role buyer	
-- <i>Ltype="Distributor"</i>				ALSO Deutschland debtor number	
-- PartnerNumber	0..1	N	13,0	Mandatory, if no ILN is used	
-- <i>Ltype="ILN"</i>				Partner number ILN	
-- ContactInformation	1			Mandatory, if no debtor number is used	
-- <i>Ltype="Buyer"</i>				Contact data	
-- ContactName	1	S	35	Buyer	
-- ContactName2	0..1	S	35	Contact name 1	
-- ContactPhone	0..1	S	35	Contact name 2	
-- ContactFax	0..1	S	35	Contact phone	
-- ContactMail	0..1	S	70	Contact fax	
-- PartnerDescription	1			Contact e-mail address	
-- <i>Ltype="Enduser"</i>				Partner address information "Enduser"	
-- PartnerNumber	1	S	17	Partner role licence Enduser	
-- PartnerDescription	1			Partner role licence Enduser	
-- PartnerNumber	1	S	17	ALSO Deutschland debtor number	

Ltype="Distributor"				Fixed: ENDUSER	
-- PartnerName1	1	S	35	Name 1 for partner role	
-- PartnerName2	0..1	S	35	Name 2 for partner role	
-- PartnerName3	0..1	S	35	Name 3 for partner role	
-- PartnerName4	0..1	S	35	Name 4 for partner role	
-- PartnerAddress	1	S	35	Street for partner role	
-- PartnerPostalCode	1	S	9	Postal code for partner role	
-- PartnerCity	1	S	35	City for partner role	
-- PartnerCountryCode	1	S	3	Country code for partner role, e.g. DE	
-- ContactInformation	1			Contact data	
Ltype="Enduser"				Enduser	
-- ContactName	1	S	35	Contact name 1; personal contact!	
-- ContactName2	0..1	S	35	Contact name 2	
-- ContactPhone	0..1	S	35	Contact phone	
-- ContactFax	0..1	S	35	Contact fax	
-- ContactMail	0..1	S	70	Contact e-mail address	
-- Comments	0..1			Comments	
Ltype="Information"				Additional informationen	
-- Information	0..20	S	70	Linenumber (allowed is 1 to 20)	
-- TaxCountry	0..1	S	2	Tax destination country, example: GER for a delivery to foreign countries out of GER (only after former agreement)	
-- Currency	0..1	S	3	Currency code, example: EUR	
-- AdditionalData	0..10			Reference information; first of all appropriation and Type attribute have to be bilateral agreed. Example: „6080“	
Ltype="..."					
-- Information	1..20	S	70	Header text 1-20	
Ltype="Line1 ... Line20"					
-- LineItem	1..n			Position data	
-- LineNumber	1	S	6	Position number	
Ltype="PurchaseOrder"				Order position	
-- ProductNumber	0..1	N	18,0	Material number ALSO Deutschland (Mandatory if no EAN is in use)	
Ltype="Distributor"				EAN is in use)	
-- ProductNumber	0..1	N	14,0	Material number EAN (Mandatory if no ALSO Deutschland material number is in use)	
Ltype="EAN"				ALSO Deutschland material number is in use)	
-- ProductNumber	0..1	S	35	Material number	
Ltype="Buyer"				Customer material number	
-- Quantity	1	N	6,0	Quantity	
Ltype="Request"				Order size	
-- MonetaryAmount	0..1	N	10,2	Amount	
Ltype="NetCustomer"				Net amount apiece (form PriceCatalogue)	
-- ProjectInformation	0..1			Contract data	
-- ProjectIdentifier	0..1	S	35	Contract number ALSO Deutschland (Mandatory if no Manufacture contract number is in use)	
Ltype="Distributor"				Manufacture contract number is in use)	
-- ProjectIdentifier	0..1	S	35	Contract number manufacture (Deal ID / SBO), Example 70569730-001 DE-ACCGS-5HUMHP-2-I2,	
Ltype="Manufacturer"				Mandatory if no ALSO Deutschland contract number is in use	
-- ProjectDescription	0..1	S	35	Project specification – Deal Reference Enduser; Example: OPG-11FEB03-EUR	
-- ProjectManufacturer	0..1	S	3	Contract Manufacture: HP or IBM	
-- Services	0..1			Logistic services	
-- Consignment	1			Management of consignment stocks	
-- Required	1	S	3	Service required * (only Yes)	
-- ConsignmentType	1	S	8	Consignment type (internal or external)	
-- ConsignmentSpecification	1	S	8	Consignment fill-up or consignment issue (FillUp, TakeFrom)	

-- SerialNumber	0..n	S	20	Serial number; only consignment issue
-- Comments	0..1			Position text
type="Delivery"				To print out the bill of order
-- Information	1..5	S	70	Header text 1-5
type="Line1 ... Line5"				

4.4.3 Code list

The following table shows the possible values for the XML tags:

XML Tag	Allowed Values	Description
CompleteDelivery	Yes	Set complete delivery for order on yes
	No	Set complete delivery for order on no
DeliveryBlock	Yes	Set delivery block for order on yes
	No	Set delivery block for order on no
OrderType	Standard	Standard assignment
	Fulfillment	Fulfillment assignment with certain services (former agreed)
	Licence Configuration	Licence assignment (former agreed) Example: TopConfig, HP (former agreed)
ProjectManufacturer	HP	Contract assignment HP
	IBM	Contract assignment IBM
Required	Yes	Use logistic services within order
	No	Use logistic services within order
ShippingTerms	Standard	Standard terms of delivery (all other terms of delivery have to be agreed bilateral)
	ExternalProduct	Handling third party good
	Express10	On-time delivery on weekdays 10 o'clock
	Express12	On-time delivery on weekdays 12 o'clock
	ExpressSa12	On-time delivery on Saturday 12 o'clock
	Overnight	To be defined
ConsignmentType	Internal	Internal management of consignment stocks
	External	External management of consignment stocks
ConsignmentSpecification	FillUp	Consignment fill-up
	TakeFrom	Consignment issue

4.5 Message OrderChange (up to 2.30)

4.5.1 Message description

If the order change message is received through the HTTP gateway, it is directly forwarded into the SAP system, an IDoc will be created and booked in the SAP system. An order response will be sent back after the order change could be successfully created and booked into the SAP system (condition: the order is not blocked).

4.5.2 Tabular message description

Notice: Fields that are marked with the * can only use the values from the code list in chapter 4.5.3

XML Tags / Attributes	It.	Type	Length	Description
OrderChange	1			Root element
-- SenderEnvelope	1			Sender envelope
-- SenderID	1	S	13	Unique sender-ID for the message
-- ReceiverID	1	S	13	Unique receiver-ID for the message
-- DateStamp	1	D	8	Time stamp YYYYMMDD
type="Message"				Message creation date
-- VersionID	1	S	5	Version for the specification, e.g. 2.30
-- ControlNumber	0..1	N	10,0	Sequential control number per message

-- Header		1		Order change header data
-- PartnerDescription	Ltype="DeliveryParty Buyer"	1..2		Partner address information Delivery party buyer
-- PartnerNumber	Ltype="Distributor"	0..1	N	17,0 ALSO Deutschland debtor number (Mandatory if no ILN is used)
-- PartnerNumber	Ltype="ILN"	0..1	N	13,0 Partner number ILN (Mandatory if no ALSO Deutschland debtor number is Used)
-- PartnerName1		0..1	S	35 Name 1 for partner role
-- PartnerName2		0..1	S	35 Name 2 for partner role
-- PartnerName3		0..1	S	35 Name 3 for partner role
-- PartnerName4		0..1	S	35 Name 4 for partner role
-- PartnerAddress		0..1	S	35 Street for partner role
-- PartnerPostalCode		0..1	N	9,0 Postal code for partner role
-- PartnerCity		0..1	S	35 City for partner role
-- PartnerCountryCode		0..1	S	3 ISO Country code for partner role, e.g. DE
-- DocumentReference		1		Reference data
-- DocumentNumber	Ltype="SalesOrder"	1	N	15,0 Document number Sales order number ALSO Deutschland
-- CompleteDelivery		0..1	S	3 Complete delivery sign* (Yes or No)
-- DeliveryBlock		0..1	S	3 Delivery block* (Yes or No)
-- LineItem		0..n		Line item data
-- ProductModificationIdentifier		1	S	6 Action for line item*: Change or Add
-- LineNumber	Ltype="PurchaseOrder"	1	S	6 Line item number Purchase order line number
-- ProductNumber	Ltype="Distributor"	0..1	N	18,0 Product number ALSO Deutschland (mandatory if no EAN is used)
-- ProductNumber	Ltype="EAN"	0..1	N	14,0 Product number EAN (mandatory if no ALSO Deutschland product number is used)
-- ProductNumber	Ltype="Buyer"	0..1	S	35 Product number Buyer product number, only allowed when adding data
-- Quantity	Ltype="Request"	0..1	N	6,0 Quantity Requested quantity
-- MonetaryAmount	Ltype="NetCustomer"	0..1	N	10,2 Net price per item (from Price Catalogue), only allowed when adding data

4.5.3 Code List

The following table shows the possible values for the XML tags:

XML Tag	Allowed Values	Description
CompleteDelivery	Yes	Set complete delivery for order on yes
	No	Set complete delivery for order on no
DeliveryBlock	Yes	Set delivery block for order on yes
	No	Set delivery block for order on no
ProductModificationIdentifier	Add	Add line item
	Change	Change line item

4.6 Message OrderResponse (up to 2.40)

4.6.1 Process description

This message is immediately created after the order has been created successfully (condition: the order is not blocked). An order response is also created when changing the order, for example at change of schedules data.

The Message OrderResponse will be send immediately on the part of ALSO Deutschland after the order attachment succeeds.

4.6.2 Tabular message description

Notice: Fields that are marked with the * can only use the values from the code list in chapter 4.6.3

XML Tags / Attributes	It.	Type	Length	Description
OrderResponse	1			Root element
-- SenderEnvelope	1			Sender envelope
-- SenderId	1	S	13	Unique sender-ID for the message
-- ReceiverID	1	S	13	Unique receiver-ID for the message
-- TimeStamp	1	D	8	Time stamp YYYYMMDD
-- Ltype="Message"				Message creation date
-- VersionID	1	S	5	Version for the specification, e.g. 2.30
-- ControlNumber	0..1			Not used in this message
-- Header	1			Order response header data
-- StatusOverview	0..1			Reference data
-- OverallStatus	1	S	40	Orderstatus*
-- DeliveryStatus	1	S	40	Deliverystatus*
-- RejectStatus	1	S	40	Rejectestatus*
-- DocumentReference	1			Reference data
-- DocumentNumber	1	N	15,0	Document number
-- Ltype="SalesOrder"				Sales order number ALSO Deutschland
-- TimeStamp	1	D	8	Date stamp YYYYMMDD
-- Ltype="SalesOrder"				Sales order date
-- DocumentReference	0..1			Reference data
-- DocumentNumber	1	S	35	Document number
-- Ltype="PurchaseOrder"				Purchase order number
-- TimeStamp	1	D	8	Time stamp YYYYMMDD
-- Ltype="PurchaseOrder"				Purchase order date
-- DocumentReference	0..1			Reference data
-- DocumentNumber	1	S	35	Document number
-- Ltype="EndCustomer"				<i>Order number of the Endcustomer</i>
-- PartnerDescription	1			Partner address information
-- Ltype="Buyer"				Partner role buyer
-- PartnerNumber	1	N	17,0	Partner number
-- Ltype="Distributor"				ALSO Deutschland debtor number
-- PartnerNumber	0..1	N	13,0	Partner number
-- Ltype="ILN"				ILN
-- PartnerDescription	1			Partner address information
-- Ltype="DeliveryParty"				Partner role delivery party
-- PartnerNumber	1	N	17,0	Partner number
-- Ltype="Distributor"				ALSO Deutschland debtor number
-- PartnerNumber	0..1	N	13,0	Partner Number
-- Ltype="ILN"				ILN
-- PartnerName1	1	S	35	Name 1 for partner role
-- PartnerName2	0..1	S	35	Name 2 for partner role
-- PartnerName3	0..1	S	35	Name 3 for partner role
-- PartnerName4	0..1	S	35	Name 4 for partner role
-- PartnerAddress	0..1	S	35	Street for partner role
-- PartnerPostalCode	0..1	N	9,0	Postal code for partner role
-- PartnerCity	0..1	S	35	City for partner role
-- PartnerCountryCode	0..1	S	3	Country code for partner role, e.g. DE
-- CompleteDelivery	0..1	S	3	Complete delivery sign* (Yes or No)
-- ShippingTerms	0..1	S	10	Shipping terms*
-- Comments	0..1			Header text
-- Ltype="Information"				Information, not printable
-- Information	1..10	S	70	Header text 1-10
-- Ltype="Line1 ... Line10"				
-- Services	0..1			Logistic services
-- Distribution	0..1			Shipping for a third party

-- Required	1	S	3	Service required* (Yes or No)
-- RequestedDeliveryDate	0..1			Service delivery date
-- Required	1	S	3	Service required* (Yes or No)
-- DateStamp Ltype="Request"	1	D	8	Date stamp YYYYMMDD
-- RequestedDeliveryDateWarranted	0...1	S	3	Requested delivery date warranted (Yes or No)
-- CashOnDelivery	0..1			Cash on delivery handing
-- Required	1	S	3	Service required* (Yes or No)
-- MonetaryAmount Ltype="SumDelivery"	1	N	10,2	Amount
-- LineItem	1..n			Line item data
-- StatusOverview	0..1			Reference data
-- OverallStatus	1	S	40	Overall status*
-- DeliveryStatus	1	S	40	Delivery status*
-- RejectStatus	1	S	40	Rejecte status*
-- LineNumber Ltype="SalesOrder"	1	N	6	Line item number
-- LineNumber Ltype="PurchaseOrder"	0..1	S	6	Sales order line number
-- ProductNumber Ltype="Distributor"	1	N	18,0	Purchase order line number
-- ProductNumber Ltype="EAN"	0..1	N	14,0	Product number
-- ProductNumber Ltype="Buyer"	0..1	S	35	EAN
-- ProductNumber Ltype="Manufacturer"	0..1	S	40	Product number
-- ProductDescription Ltype="Distributor"	1	S	40	Manufacturer product number
-- Quantity Ltype="Request"	1	N	6,0	Product description
-- Conditions	0..n			ALSO Deutschland description
-- ConditionType	1	S	1	Quantity
-- MonetaryAmount Ltype="Condition"	1	N	10,2	Requested quantity
-- ConditionPercentage	1	N	3,2	Agio or disagio (line item)
-- ConditionDescription	1	S	80	+ (=agio) or - (=disagio)
-- MonetaryAmount Ltype="NetCustomer"	1	N	10,2	Amount
-- MonetaryAmount Ltype="NetCustomerIncludingConditions"	0..1	N	10,2	Condition amount
-- MonetaryAmount Ltype="SumNetPosition"	0..1	N	10,2	Condition percentage rate
-- Reject Lcode="NN"	0..1	S	80	Condition description
-- Schedule ¹⁾	1..n			Amount
-- DateStamp Ltype="Schedule"	1	D	8	Net value per item
-- Quantity Ltype="Schedule"	1	N	6,0	Net value per item inclusive all additional fee
-- MonetaryAmount	0..1	N	10,2	Amount
-- MonetaryAmount Ltype="SumNetPosition"	0..1	N	10,2	Net value item sum inclusive all additional fee
-- Reject Lcode="NN"	0..1	S	40	Reject reason for line item rejection
-- Schedule ¹⁾	1..n			Two digit code for reject reason
-- DateStamp Ltype="Schedule"	1	D	8	Schedule data
-- Quantity Ltype="Schedule"	1	N	6,0	Scheduled date
-- MonetaryAmount	0..1	N	10,2	Quantity
-- MonetaryAmount Ltype="SumNetPosition"	0..1	N	10,2	Scheduled quantity

¹⁾ The schedule element is a mandatory field within the order response. If SAP does not create any schedule data, the schedule date 20501231 with schedule quantity 0 will be written. There can be no further prediction for the delivery date made.

4.6.3 Code list

The following table shows the possible values for the XML tags:

XML Tag	Allowed Values	Description
CompleteDelivery	Yes No	Set complete delivery for order on yes Set complete delivery for order on no
Required	Yes No	Use logistic services within order Don't use logistic services within order
ShippingTerms	Standard	Standard shipping terms
OverallStatus	Open InProcess Done	Open In process done
	Unknown	Status unknown
DeliveryStatus	NotShipped PartialShipped Shipped	Not shipped Partial shipped shipped
	Unknown	Status unknown
RejectStatus	NotRejected PartialRejected	Not rejected Partial rejected
	Rejected Unknown	Complete rejected Status unkown

4.7 Message Delivery (up to 2.40)

4.7.1 Process description

The message delivery is immediately created after goods issue posting for the delivery.

4.7.2 Tabular message description

XML Tags / Attributes	It.	Type	Length	Description
Delivery	1			Root element
-- SenderEnvelope	1			Sender envelope
-- SenderID	1	S	13	Unique sender-ID for the message
-- ReceiverID	1	S	13	Unique receiver-ID for the message
-- DateStamp	1	D	8	Time stamp YYYYMMDD
type="Message"				Message creation date
-- VersionID	1	S	5	Version for the specification, e.g. 2.30
-- ControlNumber	0..1			Not used in this message
-- Header	1			Delivery note header data
-- DocumentReference	1			Reference data
-- DocumentNumber	1	N	15,0	Document number
type="Delivery"				Delivery note number
-- DateStamp	1	D	8	Date stamp YYYYMMDD
type="Delivery"				Delivery date
-- DocumentReference	0..1			Reference data
-- DocumentNumber	0..1	S	35	Document number
type="PurchaseOrder"				Purchase order number
-- DateStamp	0..1	D	8	Date stamp YYYYMMDD
type="PurchaseOrder"				Purchase order date
-- DocumentReference	0..1			Reference data
-- DocumentNumber	0..1	S	35	Document number
type="EndCustomer"				Order number of the Endcustomer
-- PartnerDescription	2			Partner address information
type="Buyer DeliveryParty"				Partner role buyer delivery party
-- PartnerNumber	1	N	17,0	Partner number
type="Distributor"				ALSO Deutschland debtor number
-- PartnerNumber	0..1	N	13,0	Partner number
type="ILN"				ILN

-- PartnerName1	1	S	35	Name 1 for partner role
-- PartnerName2	0..1	S	35	Name 2 for partner role
-- PartnerName3	0..1	S	35	Name 3 for partner role
-- PartnerName4	0..1	S	35	Name 4 for partner role
-- PartnerAddress	0..1	S	35	Street for partner role
-- PartnerPostalCode	0..1	N	9,0	Postal code for partner role
-- PartnerCity	0..1	S	35	City for partner role
-- PartnerCountryCode	0..1	S	3	Country code for partner role, e.g. DE
-- Comments	0..1			Header text
└type="Information"				Information, not printable
-- Information	1..10	S	70	Text lines 1-10
└type="Line1 ... Line10"				
-- LineItem	1..n			Line item data
-- LineNumber	1	S	6	Line item number
└type="Delivery"				Delivery note line number
-- ProductNumber	1	N	18,0	Product number
└type="Distributor"				ALSO Deutschland product number
-- ProductNumber	0..1	N	13,0	Product number
└type="EAN"				EAN
-- ProductNumber	0..1	S	35	Product number
└type="Buyer"				Buyer product number
-- Quantity	1	N	6,0	Quantity
└type="Delivery"				Delivery quantity
-- Unit	1	S	3	Unit (PCE = piece)
-- DocumentReference	1			Reference data
-- DocumentNumber	1	N	15,0	Document number
└type="SalesOrder"				ALSO Deutschland sales order number
-- LineNumber	1	N	6	Line item number
└type="SalesOrder"				Sales order line number
-- DateStamp	1	D	8	Date stamp YYYYMMDD
└type="SalesOrder"				Sales order date
-- DocumentReference	0..1			Reference data
-- DocumentNumber	0..1	S	35	Document number
└type="PurchaseOrder"				Purchase order number
-- LineNumber	0..1	S	6	Line item number
└type="PurchaseOrder"				Purchase order line number
-- DateStamp	0..1	D	8	Date stamp YYYYMMDD
└type="PurchaseOrder"				Purchase order date
-- DocumentReference	0..1			Reference data
-- DocumentNumber	0..1	S	35	Document number
└type="EndCustomer"				Document number endcustomer
-- SerialNumber	0..n	S	50	Serial number for delivery position
-- IdentNumbers	0..n	S	50	Extended Serialnumbers (IMEI, MAC, etc.)
-- Number	1...5	S	50	Serial number
└type=" "				Serial number type (IMEI, MAC etc.)
-- ShipmentInformation	0..1			Shipment information
-- PartnerDescription	1			Partner address information
└type="Carrier"				Partner role carrier
-- PartnerNumber	1	N	17	Partner number
└type="Distributor"				ALSO Deutschland debtor number
-- PartnerName1	1	S	35	Partner name 1
-- PackageUnits	1	N	6	Quantity of packages
-- PackageData	1..n			Package hierarchy
-- PackageNumber	1	S	20	Number of dispatch element
└type="Pallet Parcel"				Type of dispatch element (Palett / Package)
-- TrackingLink	0..n	S	200	WWW Tracking link from the carrier
-- LineItem	0..n			Packing details
-- LineNumber	1	N	6,0	Line item number
└type="Delivery"				Delivery note position

-- Quantity └type="Package"	1	N	6,0	Quantity Quantity of particular packages
-- PackageWeight	0..1	N	10,2	Weight of the package
-- WeightUnit	0..1	S	5	Weight unit

4.7.3 Codelisten

The following table shows the possible values for the XML tags:

XML Tag	Allowed Values	Description
Number	Mac Telephone Serial Serial2 IMEI ctmMAC mtaMAC SIM ICC EG	Mac-address Telephone Serial number Serial number 2 IMEI-ID ctmMAC mtaMAC SIM-card-number ICCID EG-Coupon

4.8 Message Invoice (up to 2.40)

4.8.1 Message description

The message invoice is being created after delivery. The transferred invoice types have to be coordinated in the first place (invoice, credit items or debit advice).

Usually, the invoices will be transmitted directly after the creation of the documents. In founded exceptional cases a transmission in the early morning (7 AM o'clock) is possible.

4.8.2 Tabular message description

Notice: Fields that are marked with the * can only use the values from the code list in chapter 4.8.3

XML Tags / Attributes	It.	Type	Length	Description
Invoice	1			Root element
-- SenderEnvelope	1			Sender envelope
-- SenderID	1	S	13	Unique sender-ID for the message
-- ReceiverID	1	S	13	Unique receiver-ID for the message
-- DateStamp └type="Message"	1	D	8	Time stamp YYYYMMDD Message creation date
-- VersionID	1	S	5	Version for the specification, e.g. 2.30
-- ControlNumber	0..1			Not used in this message
-- Header	1			Invoice header data
-- DocumentType	1	S	15	Invoice types: Invoice, CreditNote or DebitAdvice
-- DocumentReference	1			Reference data
-- DocumentNumber └type="Invoice"	1	N	15,0	Document number Invoice number
-- DateStamp └type="Invoice"	1	D	8	Date stamp YYYYMMDD Invoice date
-- DocumentReference	0..1			Reference data
-- DocumentNumber └type="PurchaseOrder SalesOrder Delivery"	0..1	S	35	Document number Purchase order number ALSO Deutschland sales order number Delivery note number
-- DateStamp └type="PurchaseOrder SalesOrder"	0..1	D	8	Date stamp YYYYMMDD Purchase order date Sales order date

<i> Delivery"</i>					Delivery date
-- DocumentReference	0..1				Reference data
-- DocumentNumber	0..1	S	70		Document number
<i>Ltype="PaymentForm"</i>					Payment form number (only CH)
-- PartnerDescription	5				Partner address information
<i>Ltype="Buyer DeliveryParty BillTo InvoicingParty Payer"</i>					Partner role buyer delivery party bill to party invoicing party (regulator) regulator
-- PartnerNumber	0..1	N	17,0		ALSO Deutschland debtor number
<i>Ltype="Distributor"</i>					Mandatory, if no ILN is used
-- PartnerNumber	0..1	N	13,0		Partner number ILN
<i>Ltype="ILN"</i>					Mandatory, if no debtor number is used
-- PartnerName1	1	S	35		Name 1 for partner role
-- PartnerName2	0..1	S	35		Name 2 for partner role
-- PartnerName3	0..1	S	35		Name 3 for partner role
-- PartnerName4	0..1	S	35		Name 4 for partner role
-- PartnerAddress	0..1	S	35		Street for partner role
-- PartnerPostalCode	0..1	N	9,0		Postal code for partner role
-- PartnerCity	0..1	S	35		City for partner role
-- PartnerCountryCode	0..1	S	3		Country code for partner role, e.g. DE
-- VATRegNumber	0..1	S	20		VAT reg number for partner role
-- DateStamp	1	D	8		Date stamp YYYYMMDD
<i>Ltype="Document"</i>					Document date
-- DateStamp	0..1	D	8		Date stamp YYYYMMDD
<i>Ltype="Delivery"</i>					Delivery date
-- DateStamp	0..1	D	8		Date stamp YYYYMMDD
<i>Ltype="Due"</i>					Due date
-- Currency	1	S	3		ISO currency code, e.g. EUR (euro)
-- VAT	0..1	N	3,2		VAT percentage rate
-- Conditions	0..n				Agio / disagio
-- ConditionType	1	S	1		+ (=agio) or - (=disagio)
-- MonetaryAmount	0..1	N	10,2		Amount
<i>Ltype="Condition"</i>					Condition amount
-- ConditionPercentage	0..1	N	3,2		Condition percentage rate
-- ConditionDescription	0..1	S	80		Condition description
-- PaymentAndShippingTerms	0..1				Payment and shipping terms
-- TextualDescription	1..20	S	71		Invoicing information to delivery-, payment
					Conditions and general terms and conditions
 -- LineItem	1..n				Line item data
-- LineNumber	1	S	6		Line item number
<i>Ltype="Invoice"</i>					Invoice line number
-- ProductNumber	1	N	18,0		Product number
<i>Ltype="Distributor"</i>					ALSO Deutschland product number
-- ProductNumber	0..1	N	13,0		Product number
<i>Ltype="EAN"</i>					EAN
-- ProductNumber	0..1	S	35		Product number
<i>Ltype="Buyer"</i>					Buyer product number
-- ProductNumber	0..1	S	40		Product number
<i>Ltype="Manufacturer"</i>					Manufacturer product number
-- ProductNumber	0..1	S	17		Product number
<i>Ltype="Statistical"</i>					Statistical product number
-- ProductDescription	1	S	40		Product description
<i>Ltype="Distributor"</i>					ALSO Deutschland product description
-- Quantity	1	N	6,0		Quantity
<i>Ltype="Invoiced"</i>					Invoiced quantity
-- Unit	1	S	3		Unit (PCE=piece)
-- DocumentReference	1..3				Reference data
-- DocumentNumber	0..1	S	35		Document number
<i>Ltype="PurchaseOrder SalesOrder"</i>					Purchase order number ALSO Deutschland sales

<i>Delivery"</i>					Order number delivery note number
-- LineNumber					Line item number
Ltype="PurchaseOrder"					6 Purchase order line number
Ltype="SalesOrder"					6 Sales order line number
Ltype="Delivery"					6 Delivery note line number
-- DateStamp					8 Date stamp YYYYMMDD
					Purchase order date Sales order date
<i>Delivery"</i>					Delivery date
-- Conditions					Agio / disagio
-- ConditionType					1 + (=agio) or - (=disagio)
-- MonetaryAmount					0..1 N 10,2 Amount
Ltype="Condition"					Condition amount
-- ConditionPercentage					0..1 N 3,2 Condition percentage rate
-- ConditionDescription					0..1 S 80 Condition description
-- MonetaryAmount					1 N 10,2 Amount
Ltype="NetCustomer"					Net value per item
-- MonetaryAmount					0..1 N 10,2 Amount
Ltype="NetCustomerIncludingConditions"					Net value per item inclusive all additional fee
-- MonetaryAmount					1 N 10,2 Amount
Ltype="SumNetPosition"					Net value item sum inclusive all additional Fee
-- MonetaryAmount					1 N 10,2 Amount
Ltype="VAT"					VAT per line item
-- VAT					1 N 3,2 VAT percentage rate
-- CountryOfOrigin					0..1 S 3 Country of origin
-- SerialNumber					0..n S 20 Serial number(s) for position
-- CalculationSum					1..4 Sum segment, VAT="Total" is always Given
Ltype="xxxxx"					1 S 5 VAT percentage rate (16.00, ...) or over all VAT rates (total)
-- MonetaryAmount					1 N 15,2 Amount
Ltype="SumNet"					Net amount
-- MonetaryAmount					1 N 15,2 Amount
Ltype="SumVAT"					Vat amount
-- MonetaryAmount					0..1 N 15,2 Amount
Ltype="SumGros"					Gross amount

4.8.3 Code list

The following table shows the possible values for the XML tags:

XML Tag	Allowed Values	Description
ConditionType	+	Agio (extra pay condition)
	-	Disagio (reduction condition)
DocumentType	Invoice	Invoice
	CreditNote	Credit note
	DebitAdvice	Debit advice

4.9 Message Remittance Advice (up to 2.30)

4.9.1 Process description

The remittance advice is used for the correct assignment of a payment to ALSO Deutschland. To send an RemittanceAdvice the partner must receive the Invoice message, because the RemittanceAdvice references to the invoices.

4.9.2 Tabular message description

XML Tags / Attributes	It.	Type	Length	Description
Invoice	1			Root element
 -- SenderEnvelope	1			Sender envelope
-- SenderID	1	S	13	Unique sender-ID for the message
-- ReceiverID	1	S	13	Unique receiver-ID for the message
-- DateStamp	1	D	8	Time stamp YYYYMMDD
type="Message"				Message creation date
-- VersionID	1	S	5	Version for the specification, e.g. 2.30
-- ControlNumber	0..1			Not used in this message
 -- Header	1			Delivery note header data
-- DocumentReference	1			Reference data
-- DocumentNumber	1	N	15,0	Document number
type="Remittance"				
-- DateStamp	1	D	8	Date stamp YYYYMMDD
type="Remittance"				Remittancedate
-- PartnerDescription	4			Partner address information
type="Payee"				Partner role buyer delivery party
-- PartnerNumber	0..1	N	17,0	Partner number
type="Distributor"				ALSO Deutschland debtor number
-- PartnerNumber	0..1	N	13,0	Partner number
type="ILN"				ILN
-- PartnerName1	1	S	35	Name 1 for partner role
-- PartnerName2	0..1	S	35	Name 2 for partner role
-- PartnerName3	0..1	S	35	Name 3 for partner role
-- PartnerName4	0..1	S	35	Name 4 for partner role
-- PartnerAddress	0..1	S	35	Street for partner role
-- PartnerPostalCode	0..1	S	9	Postal code for partner role
-- PartnerCity	0..1	S	35	City for partner role
-- PartnerCountryCode	0..1	S	3	Country code for partner role, e.g. DE
-- PartnerDescription	4			Partner address information
type="Payer"				Partner role buyer delivery party
-- PartnerNumber	0..1	N	17,0	Partner number
type="Distributor"				ALSO Deutschland debtor number
-- PartnerNumber	0..1	N	13,0	Partner number
type="ILN"				ILN
-- PartnerName1	1	S	35	Name 1 for partner role
-- PartnerName2	0..1	S	35	Name 2 for partner role
-- PartnerName3	0..1	S	35	Name 3 for partner role
-- PartnerName4	0..1	S	35	Name 4 for partner role
-- PartnerAddress	0..1	S	35	Street for partner role
-- PartnerPostalCode	0..1	S	9	Postal code for partner role
-- PartnerCity	0..1	S	35	City for partner role
-- PartnerCountryCode	0..1	S	3	Country code for partner role, e.g. DE
OrganizationID	0..1	N	4	Organization ID ALSO Deutschland, e.g. 1010 for DE
Currency	0..1	S	3	ISO currency code, e.g. EUR (euro)
 -- Document	1..n			Document data
-- DocumentReference	1			Reference data
-- DocumentNumber	1	N	15,0	Document number
type="Invoice"				Invoice
-- DateStamp	1	D	8	Datesstamp YYYYMMDD
type="Remittance"				Document date
-- MonetaryAmount	1	N	15,2	Amount
type="SumGross"				Gross amount
-- MonetaryAmount	1	N	15,2	Amount
type="Remittance"				Total document amount
-- MonetaryAmount	1	N	15,2	Amount
type="CashDiscount"				Discount amount

-- CalculationSum	1..4			Sum segment
-- MonetaryAmount └type="SumGross"	1	N	15,2	Amount Gross amount
-- MonetaryAmount └type="CashDiscount"	1	N	15,2	Amount Discount amount
-- MonetaryAmount └type="Discount"	0..1	N	15,2	Amount Gross amount - discount
-- MonetaryAmount └type="Remittance"	0..1	N	15,2	Amount Total amount of remittance advice

4.10 Message Return Notification (up to 2.30)

4.10.1 Process description

The return message will be send to the partner as soon as a quality notification is created and the goods receipt was posted by ALSO Germany.

4.10.2 Tabular message description

XML Tags / Attribute	It.	Typ	Länge	Beschreibung
ReturnNotification	1			Root element
-- SenderEnvelope	1			Sender envelope
-- SenderId	1	S	13	Unique sender-ID for the message
-- ReceiverID	1	S	13	Unique receiver-ID for the message
-- DateStamp └type="Message"	1	D	8	Time stamp YYYYMMDD Message creation date
-- VersionID	1	S	5	Version for the specification, e.g. 2.40
-- ControlNumber	0..1			Not used in this message
-- Header	1			Header data
-- DocumentType	1	S		Message type (ServiceNote)
-- DocumentReference	1..2			Reference data
-- DocumentNumber └type="CreditNote" ServiceNote ReturnNotification Delivery	1	N	15,0	Document number Document number of credit note Document number of service note Document number of quality notification Document number of goods receipt
-- DateStamp └type="CreditNote" Delivery ServiceNote	1	D	8	Time stamp YYYYMMDD Timestamp of credit note Timestamp of delivery Timestamp of repair order
-- PartnerDescription └type="InvoicingParty"	2..5			Partner address information Invoicing party (regulator)
Buyer				Partner role buyer
BillTo				Bill to party
Payer				Regulator
DeliveryParty				Delivery party
-- PartnerNumber └type="Distributor"	0..1	N	17,0	ALSO debtor number Mandatory, if no ILN is used
-- PartnerNumber └type="ILN"	0..1	N	13,0	Partner number ILN Mandatory, if no debtor number is used
-- PartnerName1	1	S	35	Name 1 for partner role
-- PartnerName2	0..1	S	35	Name 2 for partner role
-- PartnerName3	0..1	S	35	Name 3 for partner role
-- PartnerName4	0..1	S	35	Name 4 for partner role
-- PartnerAddress	0..1	S	35	Street for partner role
-- PartnerPostalCode	0..1	S	9	Postal code for partner role
-- PartnerCity	0..1	S	35	City for partner role
-- PartnerCountryCode	0..1	S	3	Country code for partner role, e.g. DE
-- Currency	0..1	S	3	ISO currency code, e.g. EUR (euro)
-- LineItem	1..n			Line item data

-- LineNumber Ltype=" ServiceNote "	1	N	15,0	Line item number Document number
-- DocumentReference	1..2			Reference data
-- DocumentNumber Ltype=" PurchaseOrder / SalesOrder "	1	N	15,0	Document number Purchase order number (customer) Sales order number (ALSO)
-- ProductNumber Ltype="Buyer"	0..1	S	15	Buyer product number
-- ProductNumber Ltype="Distributor"	1	N	15	ALSO product number
-- ProductNumber Ltype="EAN"	1	N	15	EAN
-- ProductNumber Ltype="Manufacturer"	0..1	S	15	Manufacturer product number
-- ReturnInformation	1..n			Retoureninformationen
-- DateStamp Ltype=" Returned "	1	N	8,0	Date of returned goods receipt
-- Quantity Ltype=" Returned "	1	D	10,0	Returned quantity
-- ReturnReason Ltype=" "	1	S	10,0	Returning reason Bilateral agreement
-- ReturnStatus	1	S	10,0	Product condition

5. History

5.1 Communication Parameter

Version	Date	Name	Description
2.10c	13.04.2005	Lars Rektorschek	2.2 Adding communication protocol AS2 and SMTP
			2.4 Adding incoming and outgoing authentication
			2.5 Adding ALSO Deutschland and partner number
			2.6 Change: receiving parameter for ALSO Deutschland HTTP gateway

5.2 Messagees

Message ReceiptAcknowledgement

Version	Date	Name	Description
2.10c	13.04.2005	Lars Rektorschek	Adding message
2.10c	31.05.2005	Lars Rektorschek	Error correction in DocumentNumber

Message ReceiptAcknowledgementException

Version	Date	Name	Description
2.10c	13.04.2005	Lars Rektorschek	Adding message
2.10c	31.05.2005	Lars Rektorschek	Error correction in DocumentNumber, Adaptation of field size

Message CnetData

Version	Date	Name	Description
2.10	10.01.2005	Lars Rektorschek	Adding CnetData in LineItem: Adding ProductDescription type="CnetMarketing" Adding ProductDatasheet Adding ProductModificationIdentifier
2.10	19.01.2005	Lars Rektorschek	Substitution MaterialNumber through ProductNumber

Message StockInfo

Version	Date	Name	Description
2.10	19.01.2005	Lars Rektorschek	Substitution MaterialNumber through ProductNumber
2.20	29.04.2008	Daniel Gade	Extension for LineItem , added NextAvailableDate

Message Order

Version	Date	Name	Description
2.10	19.01.2005	Lars Rektorschek	Substitution MaterialNumber through ProductNumber
2.10c	13.04.2005	Lars Rektorschek	Adaptation of process description (3.6.1)
2.20	20.04.2007	Thomas Haucap	Creation Order 2.20
2.20	03.06.2007	Thomas Haucap	Adding Configuration and LicenceInformation in Services Changed Order/Header/Services/ECarePack – Added PartnerDescription
2.40	21.09.2010	Daniel Gade	
2.40	11.10.2011	Daniel Gade	Added Order/Header/Services/LicenceInformation/Comments

Message OrderChange

Version	Date	Name	Description
2.10	21.12.2004	Lars Rektorschek	Adding OrderChange in LineItem: Adding ProductNumber type="Buyer" Adding MonetaryAmount type="NetCustomer" (for adding Line items) Adding ProductModificationIdentifier (for separation, Adding and changing of line items)
2.10	19.01.2005	Lars Rektorschek	Substitution MaterialNumber through ProductNumber
2.10c	13.04.2005	Lars Rektorschek	Adaptation of process description (3.7.1)

Message OrderResponse

Version	Date	Name	Description
2.10	19.01.2005	Lars Rektorschek	Substitution MaterialNumber through ProductNumber
2.10b	22.03.2005	Lars Rektorschek	Insertion Conditions Insertion MonetaryAmount type="NetCustomerIncludingConditions" Insertion MonetaryAmount type="SumNetPosition"
2.30b	28.07.2008	Daniel Gade	Added RequestedDeliveryDateWarranted Renamed OverallStatus to StatusOverview
2.40	21.09.2010	Daniel Gade	Added StatusOverview on LineItem-level

Message Delivery

Version	Date	Name	Description
2.10	07.12.2004	Thomas Haucap	Enhancement Delivery in Header: Adding DocumentNumber type="PurchaseOrder"
2.10	19.01.2005	Lars Rektorschek	Substitution MaterialNumber through ProductNumber
2.40	21.09.2010	Daniel Gade	Added PackageWeight, PackageUnit and TrackingLink

Message Invoice

Version	Date	Name	Description
2.10	07.12.2004	Thomas Haucap	Enhancement Invoice in Header: Adding DocumentNumber type="PurchaseOrder"
2.10	03.01.2005	Lars Rektorschek	Adding PaymentAndShippingTerms
2.10	19.01.2005	Lars Rektorschek	Substitution MaterialNumber through ProductNumber
2.10c	22.03.2005	Lars Rektorschek	Insertion Conditions on LineItem level Insertion Monetary Amount on LineItem level type="NetCustomerIncludingConditions" Insertion MonetaryAmount type="SumNetPosition"
2.10c	01.02.2007	Thomas Haucap	Insertion DocumentNumber type = "PaymentForm"
2.20b	18.04.2008	Daniel Gade	Increment Invoice to 2.20b Standard Insertion DocumentNumber type="SalesOrder Delivery"
2.40	21.06.2011	Benedikt Schumacher	Insertion PartnerDescription type="Payer" Insertion ProductDescription

Message Remittance Advice

Version	Date	Name	Description
2.30	21.05.2008	Daniel Gade	Message added