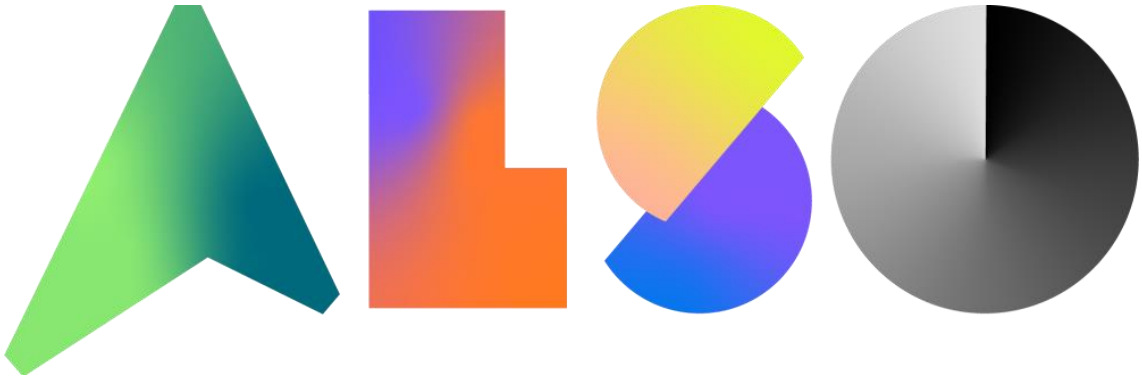

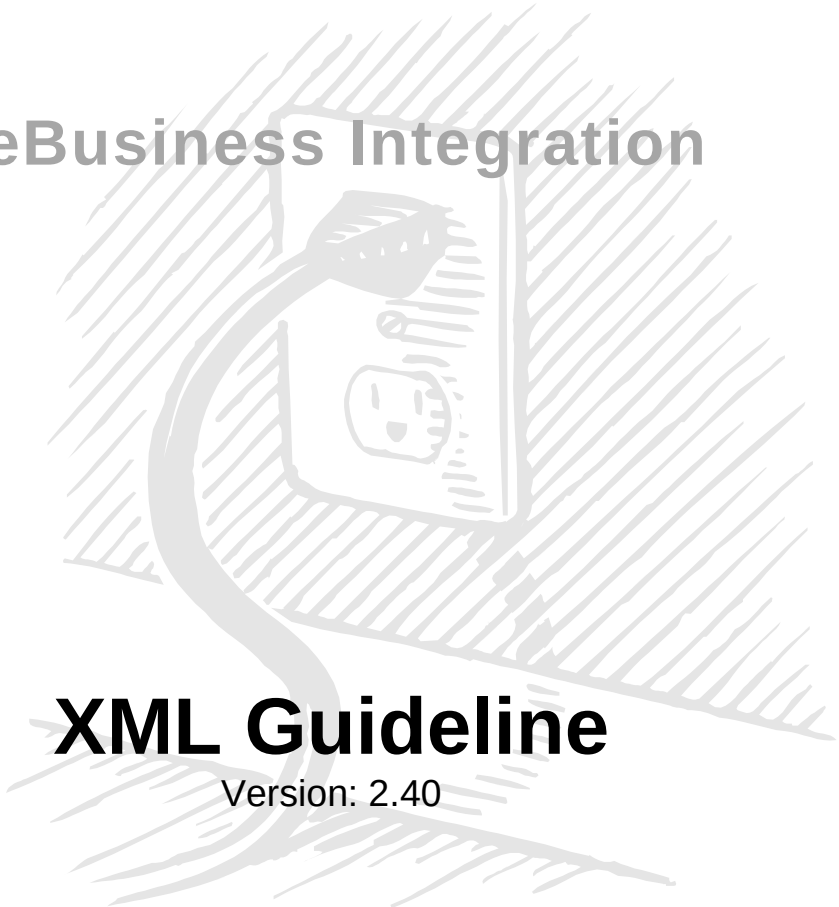

XML Guideline

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 / 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 „ └ " sign. For Example:

XML Tags / Attribute	Description
| |-- DateStamp └*type="Message* |	This is a **XML tag** named DateStamp, which is two levels below the root element. This is an **attribute** named type, which belongs to the XML tag DateStamp.
Request"	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
  - Dates: 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: edi-support.nl@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

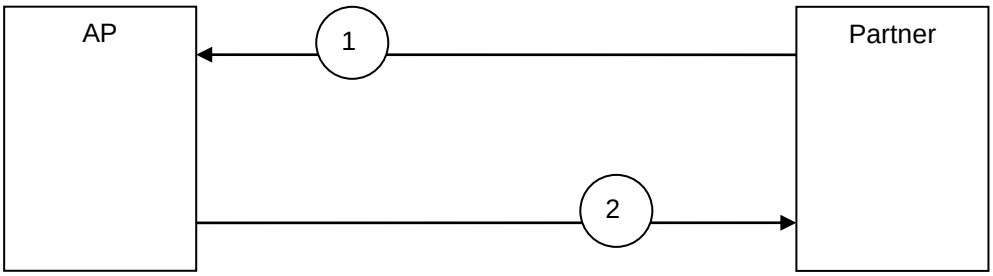
The advice of settlement is used to assure the assignment of a payment transaction. For transmitting the remittance advice message it is required, that a partner received also the invoice message from ALSO, since the advice of settlement references the invoice message.

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 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)

HTTPS:
For the data transference the preferred protocol is HTTPS. Please keep in mind that ALSO accepts only incoming messages over the HTTPS 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 FTP server.

3.2.2 Outgoing messages (ALSO → Partner)

HTTPS:
The HTTPS 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 HTTPS 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 HTTPS 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 sends all outgoing messages with the HTTPS post method. The incoming messages are also expected in form of the HTTPS post method from the partner.

3.3.3 HTTPS Status codes

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

The client will receive a HTTPS status code 200 if ALSO received the message successfully. ALSO 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)

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 VXNlcm5hbWU6UGFzc3dvcnQ=
```

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 → Partner)

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

3.5 Partnernumber

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

For ALSO Benelux following ILNs are in use as ReceiverID for incoming orders:

ALSO Nederland BV	4005922024000
ALSO Belgium BV	4005922023201
ALSO International BV	4005922024208

SenderID
A partner can use as SenderID a GLN, ILN or alternatively the DUNS-number if an ILN/GLN does not exist. This number can be applied without any costs incurred via http://europe.dnb.com/find-my-DUNS/
First search if you already have a DUNS-number. If not, you can apply for one in the same process.

Should neither an ILN/GLN or a DUNS be possible, it is possible to use the ALSO customer ID for the partner identification.

3.6 Receive parameters for the ALSO HTTPS gateways

ALSO 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
└*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
└*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 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
| |-- 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**			ReceiptAcknowledgementException header
				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
| |-- 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
|-- LineItem	**1..n**			**Line item data**
| |-- ProductNumber	1	N	18,0	Product number
└*type="Distributor"*				ALSO 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 debtor number
└*type="Distributor"*				(Mandatory if no ILN is used)
| | |-- PartnerNumber	0..1	N	13,0	ILN
└*type="ILN"*				(Mandatory if no ALSO 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 debtor number
└*type="Distributor"*				(Mandatory if no ILN is used)
| | |-- PartnerNumber	0..1	N	13,0	ILN
└*type="ILN"*				(Mandatory if no ALSO debtor number is
				Is used)
| | |-- PartnerNumber	0..1	S	35	Partner number
└*type="Buyer"*				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	0..1	S	70	Header text
└*type="Information"*				Information, not printable
| | |-- Information	1..10	S	70	Header text 1-10
└*type="Line1 … Line10"*				
| |-- ProjectInformation	0..1			Contact data **Important: A contact number in the header forbids an application on the position level (and backwards)!**
| | |-- ProjectIdentifier	0..1	S	35	Contract number ALSO (mandatory if no
└*type="Distributor"*				Manufacturer contract number is used)
| | |-- ProjectIdentifier	0..1	S	35	Contract number manufacturer (Deal ID or
└*type="Manufacturer"*				SBO), e.g. 70569730-001 DE-ACCGS-5HUMHP- 2-I2 Mandatory if no ALSO 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	1..8	S	35	Reference text for press proof on the
└*type="Line1 … Line8“*				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	0..1			Header text
└*type="Delivery"*				for print out on delivery note
| | | | |-- Information	1..20	S	70	Header text 1-20
└*type="Line1 … Line20“*				
| | |-- 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
| | | |-- PartnerDescription	0..1			Partner address fort he management of consignment stocks
└*type="Consignment"*				Handling
| | | | |-- PartnerNumber	0..1	S	17	ALSO debtor number
└*type="Distributor"*				(Mandatory if no ILN is used)
| | | | |-- PartnerNumber	0..1	N	13,0	ILN
└*type="ILN"*				(Mandatory if no ALSO debtor number is
				Is used)
| | | | |-- PartnerNumber	0..1	S	35	Buyer partner number
└*type="Buyer"*				
| | | | |-- 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
└*type="Request"*				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
└*type="SumDelivery"*				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
└*type="WarrantyUser"*				Partner role delivery party
| | | | |-- PartnerNumber	0..1	S	17	ALSO debtor number
└*type="Distributor"*				(Mandatory if no ILN is used)
| | | | |-- PartnerNumber	0..1	N	13,0	ILN
└*type="ILN"*				(Mandatory if no ALSO 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
└*type="DeliveryParty"*				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
└*type="EndCustomerNumber"*				Endcustomer number
| | | |-- ReferenceNumber	0..1	S	35	Reference data
└*type="CSNNumber"*				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
└*type="DeliveryParty"*				Partner role delivery party
| | | | |-- PartnerNumber	0..1	S	17	ALSO debtor number
└*type="Distributor"*				(Mandatory if no ILN is used)
| | | | |-- PartnerNumber	0..1	N	13,0	ILN
└*type="ILN"*				(Mandatory if no ALSO debtor number is

				Is used)
| | | | |-- 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
└*type="DeliveryParty"*				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 : **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 └*type="**ContractStartDate**"*	0..1	S	8	Contract startdate
| | | | |-- 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 …
				The different licence type offers different input for the partner data fields, therefor the conditional marked fields can be mandatory for each manufacture.
| | | |-- **PartnerDescription**	1			Partner address information
└*type="**Buyer**"*				Partner role buyer
| | | | |-- PartnerNumber	0..1	S	17	ALSO debtor number
└*type="Distributor"*				Mandatory, if no ILN is used
| | | | |-- PartnerNumber	0..1	N	13,0	Partner number ILN
└*type="ILN"*				Mandatory, if no debtor number is used
| | | | |-- ContactInformation	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
| | | | | |-- ContactFax	0..1	S	35	Contact fax
| | | | | |-- ContactMail	0..1	S	70	Contact e-mail address
| | | |-- **PartnerDescription**	1			Partner address information "Enduser"
└*type="**Enduser**"*				Partner role licence Enduser
| | | | |-- PartnerNumber	1	S	17	ALSO debtor number
└*type="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
└*type="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
└*type="Information"*				Additional informationen
| | | | |-- Information	0..20	S	70	
└*type="Line1..20"*				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
└*type="…"*				and Type attribute have to be bilateral agreed.
				Example: „6080"
| | |-- Information	1..20	S	70	Header text 1-20
└*type="Line1 … Line20"*				
|-- LineItem	**1..n**			**Position data**
| |-- LineNumber	1	S	6	Position number
└*type="PurchaseOrder"*				Order position
| |-- ProductNumber	0..1	N	18,0	Material number ALSO (Mandatory if no
└*type="Distributor"*				EAN is in use)
| |-- ProductNumber	0..1	N	14,0	Material number EAN (Mandatory if no
└*type="EAN"*				ALSO material number is in use)
| |-- ProductNumber	0..1	S	35	Material number
└*type="Buyer"*				Customer material number
| |-- Quantity	1	N	6,0	Quantity
└*type="Request"*				Order size
| |-- MonetaryAmount	0..1	N	10,2	Amount
└*type="NetCustomer"*				Net amount apiece (form PriceCatalogue)
| |-- ProjectInformation	0..1			Contract data
| | |-- ProjectIdentifier	0..1	S	35	Contract number ALSO (Mandatory if no
└*type="Distributor"*				Manufacture contract number is in use)
| | |-- ProjectIdentifier	0..1	S	35	Contract number manufacture (Deal ID / SBO),
└*type="Manufacturer"*				Example 70569730-001 DE-ACCGS-5HUMHP-2-I2,
				Mandatory if no ALSO 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 Fulfillment Licence Configuration	Standard assignment Fulfillment assignment with certain services (former agreed) 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 throw 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 successful 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	1..2			Partner address information
└type="DeliveryParty | Buyer"				Delivery party | buyer
| | |-- PartnerNumber	0..1	N	17,0	ALSO debtor number
└type="Distributor"				(Mandatory if no ILN is used)

| | |-- PartnerNumber └*type="ILN"*	0..1	N	13,0	Partner number ILN (Mandatory if no ALSO 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 └*type="SalesOrder"*	1	N	15,0	Document number Sales order number ALSO
| |-- 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**
| |-- ProductModificationModifier	1	S	6	Action for line item*: Change or Add
| |-- LineNumber └*type="PurchaseOrder"*	1	S	6	Line item number Purchase order line number
| |-- ProductNumber └*type="Distributor "*	0..1	N	18,0	Product number ALSO (mandatory if no EAN is used)
| |-- ProductNumber └*type="EAN"*	0..1	N	14,0	Product number EAN (mandatory if no ALSO product number is used)
| |-- ProductNumber └*type="Buyer"*	0..1	S	35	Product number Buyer product number, only allowed when adding data
| |-- Quantity └*type="Request"*	0..1	N	6,0	Quantity Requested quantity
| |-- MonetaryAmount └*type="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 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
| |-- 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**			**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
└*type="SalesOrder"*				Sales order number ALSO
| | |-- DateStamp	1	D	8	Date stamp YYYYMMDD
└*type="SalesOrder"*				Sales order date
| |-- DocumentReference	0..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 the Endcustomer*
| |-- PartnerDescription	1			Partner address information
└*type="Buyer"*				Partner role buyer
| | |-- PartnerNumber	1	N	17,0	Partner number
└*type="Distributor"*				ALSO debtor number
| | |-- PartnerNumber	0..1	N	13,0	Partner number
└*type="ILN"*				ILN
| |-- PartnerDescription	1			Partner address information
└*type="DeliveryParty"*				Partner role delivery party
| | |-- PartnerNumber	1	N	17,0	Partner number
└*type="Distributor"*				ALSO 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
| |-- CompleteDelivery	0..1	S	3	Complete delivery sign* (Yes or No)
| |-- ShippingTerms	0..1	S	10	Shipping terms*
| |-- Comments	0..1			Header text
└*type="Information"*				Information, not printable
| | |-- Information	1..10	S	70	Header text 1-10
└*type="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	1	D	8	Date stamp YYYYMMDD
└*type="Request"*				Requested delivery date

| | | |-- 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	1	N	10,2	Amount
└*type="SumDelivery"*				Cash on delivery 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	1	N	6	Line item number
└*type="SalesOrder"*				Sales order line number
| |-- LineNumber	0..1	S	6	Line item number
└*type="PurchaseOrder"*				Purchase order line number
| |-- ProductNumber	1	N	18,0	Product number
└*type="Distributor"*				ALSO product number
| |-- ProductNumber	0..1	N	14,0	Product number
└*type="EAN"*				EAN
| |-- ProductNumber	0..1	S	35	Product number
└*type="Buyer"*				Buyer product number
| |-- ProductNumber	0..1	S	40	Product number
└*type="Manufacturer"*				Manufacturer product number
| |-- ProductDescription	1	S	40	Product description
└*type="Distributor"*				ALSO description
| |-- Quantity	1	N	6,0	Quantity
└*type="Request"*				Requested quantity
| |-- Conditions	0..n			Agio or disagio (line item)
| | |-- ConditionType	1	S	1	+ (=agio) or – (=disagio)
| | |-- MonetaryAmount	1	N	10,2	Amount
└*type="Condition"*				Condition amount
| | |-- ConditionPercentage	1	N	3,2	Condition percentage rate
| | |-- ConditionDescription	1	S	80	Condition description
| |-- MonetaryAmount	1	N	10,2	Amount
└*type="NetCustomer"*				Net value per item
| |-- MonetaryAmount	0..1	N	10,2	Amount
└*type="NetCustomerIncludingConditions"*				Net value per item inclusive all additional fee
| |-- MonetaryAmount	0..1	N	10,2	Amount
└*type="SumNetPosition"*				Net value item sum inclusive all additional fee
| |-- Reject	0..1	S	40	Reject reason for line item rejection
└*code="NN"*	0..1	N	2,0	Two digit code for reject reason
| |-- Schedule [1)]	1..n			Schedule data
| | |-- DateStamp	1	D	8	Date stamp YYYYMMDD
└*type="Schedule"*				Scheduled date
| | |-- Quantity	1	N	6,0	Quantity
└*type="Schedule"*				Scheduled quantity
| |-- MonetaryAmount	0..1	N	10,2	Amount

[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	Set complete delivery for order on yes
	No	Set complete delivery for order on no
Required	Yes	Use logistic services within order
	No	Don't use logistic services within order
ShippingTerms	Standard	Standard shipping terms
OverallStatus	Open	Open
	InProcess	In process
	Done	done
	Unknown	Status unknown
DeliveryStatus	NotShipped	Not shipped
	PartialShipped	Partial shipped
	Shipped	shipped
	Unknown	Status unknown
RejectStatus	NotRejected	Not rejected
	PartialRejected	Partial rejected
	Rejected	Complete rejected
	Unknown	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 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 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 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 debitor 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	1	N	6,0	Quantity
└*type="Package"*				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	Mac-address
	Telephone	Telephone
	Serial	Serial number
	Serial2	Serial number 2
	IMEI	IMEI-ID
	ctmMAC	ctmMAC
	mtaMAC	mtaMAC
	SIM	SIM-card-number
	ICC	ICCID
	EG	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	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**			**Invoice header data**
| |-- DocumentType	1	S	15	Invoice types: Invoice, CreditNote or
				DebitAdvice
| |-- DocumentReference	1			Reference data
| | |-- DocumentNumber	1	N	15,0	Document number
└*type="Invoice"*				Invoice number
| | |-- DateStamp	1	D	8	Date stamp YYYYMMDD
└*type="Invoice"*				Invoice date
| |-- DocumentReference	0..1			Reference data
| | |-- DocumentNumber	0..1	S	35	Document number
└*type="PurchaseOrder | SalesOrder | Delivery"*				Purchase order number | ALSO sales order number | Delivery note number
| | |-- DateStamp	0..1	D	8	Date stamp YYYYMMDD

└*type="PurchaseOrder | SalesOrder | Delivery"*				Purchase order date | Sales order date | Delivery date
|-- DocumentReference	0..1			Reference data
| |-- DocumentNumber	0..1	S	70	Document number
└*type="PaymentForm"*				Payment form number (only CH)
|-- PartnerDescription	5			Partner address information
└*type="Buyer | DeliveryParty | BillTo | InvoicingParty | Payer"*				Partner role buyer | delivery party | bill to party | invoicing party (regulator) | regulator
| |-- PartnerNumber	0..1	N	17,0	ALSO debtor number
└*type="Distributor"*				Mandatory, if no ILN is used
| |-- PartnerNumber	0..1	N	13,0	Partner number ILN
└*type="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	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
└*type="Document"*				Document date
|-- DateStamp	0..1	D	8	Date stamp YYYYMMDD
└*type="Delivery"*				Delivery date
|-- DateStamp	0..1	D	8	Date stamp YYYYMMDD
└*type="Due"*				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
└*type="Condition"*				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
└*type="Invoice"*				Invoice line number
|-- ProductNumber	1	N	18,0	Product number
└*type="Distributor"*				ALSO 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
|-- ProductNumber	0..1	S	40	Product number
└*type="Manufacturer"*				Manufacturer product number
|-- ProductNumber	0..1	S	17	Product number
└*type="Statistical"*				Statistical product number
|-- ProductDescription	1	S	40	Product description
└*type="Distributor"*				ALSO product description
|-- Quantity	1	N	6,0	Quantity
└*type="Invoiced"*				Invoiced quantity
|-- Unit	1	S	3	Unit (PCE=piece)
|-- DocumentReference	1..3			Reference data
| |-- DocumentNumber	0..1	S	35	Document number
└*type="PurchaseOrder | SalesOrder*				Purchase order number | ALSO sales

|				
Delivery"				Order number | delivery note number
| | |-- LineNumber				Line item number
└*type="PurchaseOrder"*	0..1	S	6	Purchase order line number
└*type=" SalesOrder"*	0..1	N	6	Sales order line number
└*type="Delivery"*	0..1	S	6	Delivery note line number
| | |-- DateStamp	0..1	D	8	Date stamp YYYYMMDD
└*type="PurchaseOrder | SalesOrder* |				Purchase order date | Sales order date |
Delivery"				Delivery date
| |-- Conditions	0..n			Agio / disagio
| | |-- ConditionType	1	S	1	+ (=agio) or - (=disagio)
| | |-- MonetaryAmount	0..1	N	10,2	Amount
└*type="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
└*type="NetCustomer"*				Net value per item
| |-- MonetaryAmount	0..1	N	10,2	Amount
└*type="NetCustomerIncludingConditions"*				Net value per item inclusive all additional fee
| |-- MonetaryAmount	1	N	10,2	Amount
└*type="SumNetPosition"*				Net value item sum inclusive all additional
				Fee
| |-- MonetaryAmount	1	N	10,2	Amount
└*type="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 Givin**
└*VAT="xxxxx"*	1	S	5	VAT percentage rate (16.00, …) or over all
				VAT rates (total)
| |-- MonetaryAmount	1	N	15,2	Amount
└*type="SumNet"*				Net amount
| |-- MonetaryAmount	1	N	15,2	Amount
└*type="SumVAT"*				Vat amount
| |-- MonetaryAmount	0..1	N	15,2	Amount
└*type="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 . 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 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 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 , 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	Datestamp 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	1	N	15,2	Amount
└*type="SumGross"*				Gross amount
| |-- MonetaryAmount	1	N	15,2	Amount
└*type="CashDiscount"*				Discount amount
| |-- MonetaryAmount	0..1	N	15,2	Amount
└*type="Discount"*				Gross amount - discount
| |-- MonetaryAmount	0..1	N	15,2	Amount
└*type="Remittance"*				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	1	D	8	Time stamp YYYYMMDD
└*type="Message"*				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	1	N	15,0	Document number
└*type=" CreditNote*				Document number of credit note
| *ServiceNote*				Document number of service note
| ReturnNotification				Document number of quality notification
| Delivery				Document number of goods receipt
| | |-- DateStamp	1	D	8	Time stamp YYYYMMDD
└*type=" CreditNote*				Timestamp of credit note
| *Delivery"*				Timestamp of delivery
| *ServiceNote "*				Timestamp of repair order
| |-- PartnerDescription	2..5			Partner address information
└*type=" InvoicingParty*				Invoicing party (regulator)
| *Buyer*				Partner role buyer
| *BillTo*				Bill to party
| *Payer*				Regulator
| *DeliveryParty* "				Delivery party
| | |-- PartnerNumber	0..1	N	17,0	ALSO debitor number
└*type="Distributor"*				Mandatory, if no ILN is used
| | |-- PartnerNumber	0..1	N	13,0	Partner number ILN
└*type="ILN"*				Mandatory, if no debitor 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	1			Line item number

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

5. Contact

Should you have any questions on EDI-integration in the Benelux, please contact our EDI support via:
EDI-support.nl@also.com