



EDItX XML transaction message formats

XML MESSAGE STRUCTURE

Version 1.0, March 2007

This document is an outline description of an XML message structure, intended to be used to carry one or more EDItX documents of a single type so that they can be transmitted together as a single message by any appropriate means, eg by FTP or as an email attachment.

The structure consists of an <EDItXMessageHeader> and an <EDItXMessagePayload>, all enclosed in an <EDItXMessage> element. The message header is defined in this document. The payload consists of an unlimited number of EDItX documents which must, however, all be of the single transaction type stated in the header. In summary:

```
<EDItXMessage version="1.0">
  <EDItXMessageHeader>
    Header content
  </EDItXMessageHeader>
  <EDItXMessagePayload>
    EDItX transaction documents
  </EDItXMessagePayload>
</EDItXMessage>
```

The main elements of the message header can also be returned as an acknowledgement of receipt of the message – <EDItXMessageAcknowledgement> – ahead of any full response that is generated when the contents of the message are processed by the receiver's application system.

Provision has been made for an optional digital signature to be included both in the message and in its acknowledgement.

EDItX MESSAGE HEADER

Document name and version

	EDItX Message Version 1.0	<EDItXMessage version="1.0">
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Header

	Element	M ¹	EDItXMessage.EDItXMessageHeader	
1	Interchange reference: assigned by sender to be unique to each trading relationship and document type. The combination of interchange reference and message number gives the message an identifier that is unique within the trading relationship.	M	InterchangeReference	
2	Message number: sequential per document type between trading partners, assigned by sender, to allow detection of gaps in message sequence	M	MessageNumber	
3	Payload type: the name of the EDItX document type that is carried in the payload, eg <i>Order, LibraryOrder</i>	M	DocumentType	
4	Version number: the version number of the EDItX document type that is carried in the payload, eg <i>1.1</i>	M	VersionNumber	
5	Number of documents included in the message payload.	M	NumberOfDocuments	
6	Manifest: a list of the unique identifying numbers of the documents included in the message payload, eg from the OrderNumber element if the payload consists of orders. Document number (repeatable)	D	Manifest.	
		D	DocumentNumber	R
7	Sender of message – usually, but not necessarily, the same as the sender of the documents in the payload. Main identifier (<i>SAN, GLN, VKNR, NBSN</i>) Additional identifiers. As above list plus: <i>BAGNR, TaxRegistrationNumber, VATRegistrationNumber</i> Party name Address Communication details (phone, fax etc) Contacts Country where located.	M	Sender.	
		M	PartyID	R
		D	AdditionalPartyIdentifier	
		D	PartyName	R R
		D	PostalAddress	
		D	CommunicationDetails	
		D	ContactPerson	
D	CountryCode			
8	Receiver ² of message – usually, but not necessarily, the same as the intended receiver of the documents in the payload.	M	Receiver.	
9	Message status Values: <i>Original, Duplicate, Test</i>	M	PurposeCode	
10	Date/time of transmission. Permitted formats are: YYYYMMDD YYYYMMDDTHHMM YYYYMMDDTHHMMZ (universal time) YYYYMMDDTHHMM±HHMM (time zone) where "T" represents itself, ie letter T	M	SentDateTime	
11	Digital signature of sender of message.	D	<Signature xmlns="http://www.w3.org/2000/09/xmldsig#"> ... digital signature elements in accordance with W3C specification ... </Signature>	

¹ In the column headed "M", "M" means mandatory, and "D" means dependent.

² Elements 7 and 8 have the same structure

EDItX MESSAGE ACKNOWLEDGEMENT

Document name and version

EDItX Message Acknowledgement Version 1.0	<EDItXMessageAcknowledgement version="1.0">
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Acknowledgement body

Element			
1	Interchange reference: assigned by sender to be unique to each trading relationship and document type	M	InterchangeReference
2	Message number: sequential per document type between trading partners, assigned by sender, to allow detection of gaps in message sequence	M	MessageNumber
3	Payload: the name of the EDItX document type that is carried in the payload	M	DocumentType
4	Version number: the version number of the EDItX document type that is carried in the payload.	M	VersionNumber
5	Number of documents included in the message payload.	M	NumberOfDocuments
6	Sender of original message – usually, but not necessarily, the same as the sender of the documents in the payload. Main identifier (<i>SAN, GLN, VKNR, NBSN</i>) Additional identifiers. As above list plus: <i>BAGNR, TaxRegistrationNumber, VATRegistrationNumber</i> Party name Address Communication details (phone, fax etc) Contacts Country where located.	M M D D D D D D	Sender. PartyID AdditionalPartyID PartyName PostalAddress CommunicationDetails ContactPerson CountryCode
7	Receiver ³ of original message – usually, but not necessarily, the same as the intended receiver of the documents in the payload.	M	Receiver.
8	Message status Values: <i>Original, Duplicate, Test</i>	M	PurposeCode
9	Date/time of receipt of original message. Permitted formats are: YYYYMMDD YYYYMMDDTHHMM YYYYMMDDTHHMMZ (universal time) YYYYMMDDTHHMM±HHMM (time zone) where "T" represents itself, ie letter T	M	ReceivedDateTime
10	Date/time of acknowledgement. Permitted formats are: YYYYMMDD YYYYMMDDTHHMM YYYYMMDDTHHMMZ (universal time) YYYYMMDDTHHMM±HHMM (time zone) where "T" represents itself, ie letter T	M	AcknowledgedDateTime

³ Elements 6 and 7 have the same structure

Acknowledgement body (continued)

	Element			
11	Acknowledgement status Received and passed on for processing Received but processing will be delayed (eg because system is not available) Message is not well-formed as an XML document Message does not parse correctly against schema Payload does not match header (wrong document type and/or document numbers, wrong number of documents, etc) Document type invalid within the trading relationship Message out of sequence – must be accompanied by last message number, below	M	AcknowledgementStatusCode. <i>Accepted</i> <i>AcceptedDelayed</i> <i>XMLErrors</i> <i>SchemaErrors</i> <i>PayloadErrors</i> <i>InvalidDocument</i> <i>OutOfSequence</i>	
12	Message number last received	D	LastMessageNumber	
13	Digital signature of sender of acknowledgement	D	<Signature xmlns="http://www.w3.org/2000/09/xmldsig#"> ... digital signature elements in accordance with W3C specification ... </Signature>	

Elements 1 to 5 are identical to the corresponding elements in the incoming message header. Elements 6, 7 and 8 are identical to 7, 8 and 9 in the header, since it is not considered necessary to repeat the manifest in the acknowledgement.