



# papiNet

**Global Transaction Standards  
for the Paper Supply Chain**

**Business Acknowledgement  
Documentation**

**Papinet Standard - Version 2.10**

**April 2003**

# **Business Acknowledgement Documentation - papiNet Standard - Version 2.10**

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### Message Documentation

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#### The Business Acknowledgement Message

##### An Overview of the Business Acknowledgement

The message receiver uses the Business Acknowledgement message to notify the message sender how a message was processed in the receiver's ERP system. It can be used to acknowledge any papiNet message. Although the message is optional between two trading partners, its use is strongly recommended since it provides positive verification of the end result of an electronic exchange.

If the Business Acknowledgement message is used, the sender of the original message should have in place an error resolution process. This process should monitor errors received via the Business Acknowledgement, routing them to the correct organisation for resolution. The monitoring process may also check for unacknowledged messages to increase the verification that all sent messages have been processed.

##### The Scope of the Business Acknowledgement Message

The Business Acknowledgement message includes:

- BusinessAcknowledgementNumber
- BusinessAcknowledgementDate
- Information on the Document acknowledged including DocumentName, DocumentNumber and DocumentDate
- If applicable, information on Errors found in processing the message
- Contact information for error resolution

Business Acknowledgement Message Types

- There are no Business Acknowledgement message types.

##### Business Rules for Business Acknowledgement

###### General Business Acknowledgement Business Rules

Reference	Rule
BA001	A Business Acknowledgement confirms the success or failure of a single document.
BA002	If the sent document failed, errors are required to describe what was wrong with the sent document.

# Business Acknowledgement Documentation

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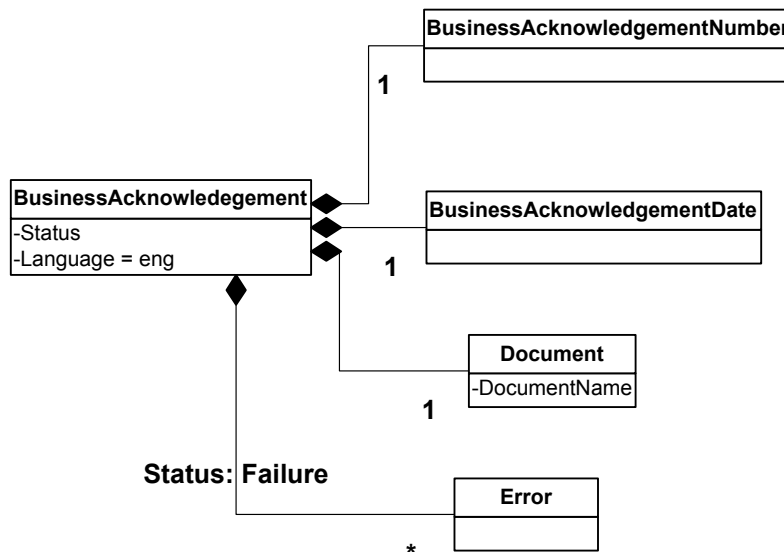
### Processing Business Acknowledgement

The message can be sent with one of two values in the Status attribute.

#### Status Values Used When Processing Business Acknowledgement

Level	Attribute	Value
Message	Status	<p><b>Success</b> – Indicates that the electronic transaction successfully processed in the receiver ERP system.</p> <p><b>Failure</b> – Indicates that the electronic transaction failed to process in the receiver ERP system.</p> <ul style="list-style-type: none"> <li>Per business rule BA002, when there is a failure, error(s) describe why the message failed.</li> </ul>

### High-level UML Diagram of Business Acknowledgement



An abridged version of the UML diagram for the BusinessAcknowledgement is shown above. This diagram illustrates the relationship between key elements in the message.

The following observation needs to be made concerning the DTD/Schema structure inferred by the above UML diagram:

- The Error element is an optional element when BusinessAcknowledgement@Status is equal to "Success" then Error would not exist.

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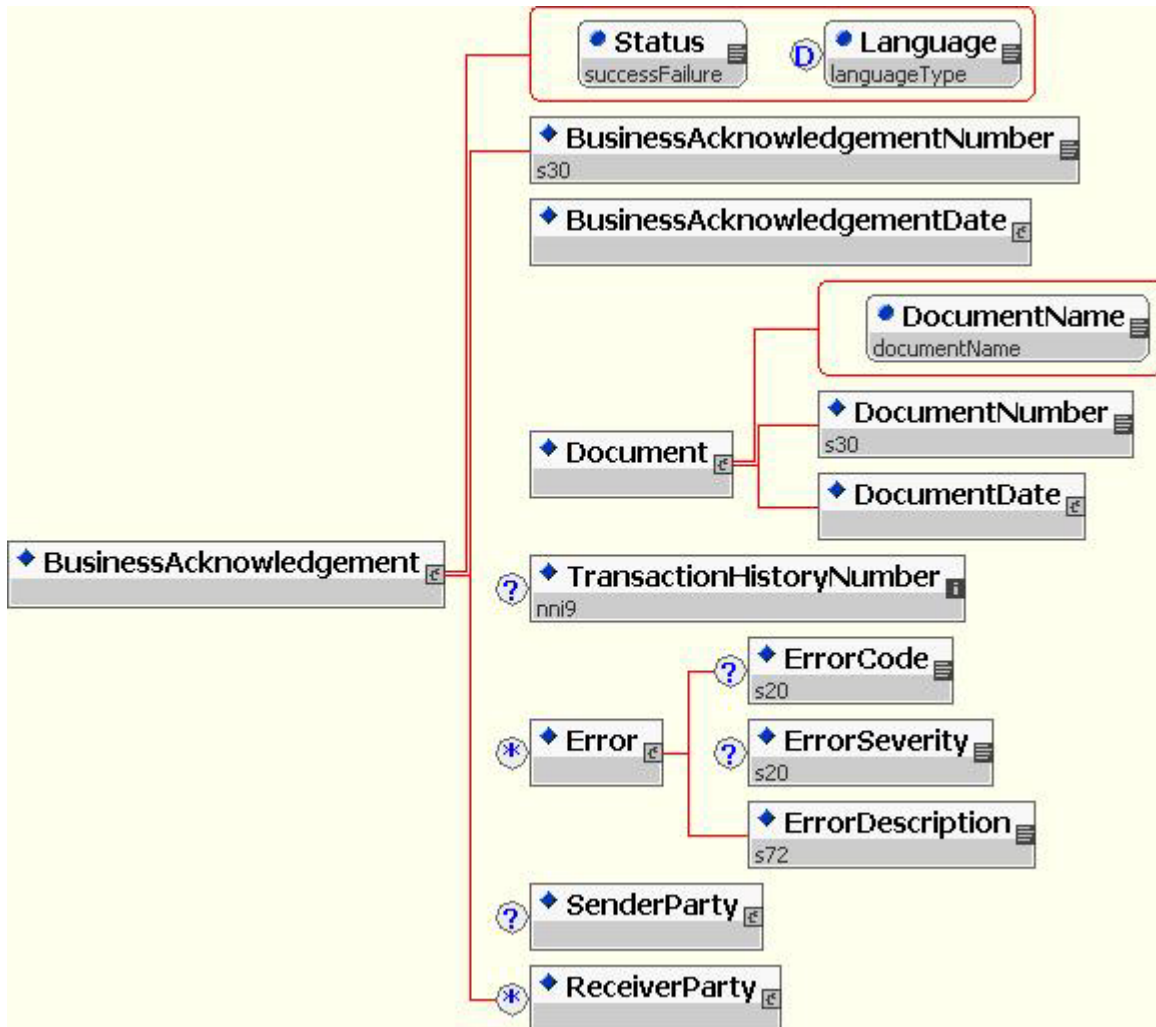
### Overview of the Business Acknowledgement Structure

		Type	Required	Occurrence
Business Acknowledgement		Root	Required	Single
	@Status	Attribute	Required	Single
	@Language	Attribute	Optional	Single
	BusinessAcknowledgementNumber	Element	Required	Single
	BusinessAcknowledgementDate	Element	Required	Single
	Document	Element	Required	Single
	@DocumentName	Attribute	Required	Single
	DocumentNumber	Element	Required	Single
	DocumentDate	Element	Required	Single
	TransactionHistoryNumber	Element	Optional	Single
	Error	Element	Optional	Multiple
	ErrorCode	Element	Optional	Single
	ErrorSeverity	Element	Optional	Single
	ErrorDescription	Element	Required	Single
	SenderParty	Element	Optional	Single
	ReceiverParty	Element	Optional	Multiple

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### Graphical Representation of the Business Acknowledgement



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### Business Acknowledgement Schema Structure and Processing Logic


This section provides a graphical view of the Business Acknowledgement Schema structure. Discussions of the subordinates to the BusinessAcknowledgement can be found in the Element and Attribute Data Dictionaries (available at [www.papiNet.org](http://www.papiNet.org)). This section also contains a review of the processing logic that is special to the Business Acknowledgement.

The graphical display of the Schema contains occurrence indicators and data type information. These indicators appear to the left of the boxes in the schema graphic and they have the following meanings:

- (Blank) Required, single instance
- (+) Required, multiple instances
- (?) Optional, single instance
- (\*) Optional, multiple instances

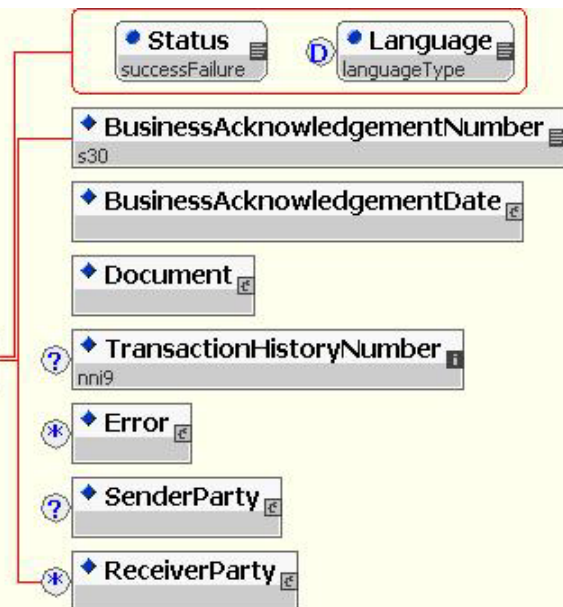
#### Business Acknowledgement Root

BusinessAcknowledgement has the following attributes:

- [Status](#)
  - ✧ Required, tells the sender if the message was processed.
- [Language](#)
  - ✧ Indicates the language for  the content of the message.

Business Acknowledgement has the following elements:

- [BusinessAcknowledgement-Number](#)
- [BusinessAcknowledgementDate](#)
- [Document](#)
- [TransactionHistoryNumber](#) (of the document in question)
- [Error](#)
- [SenderParty](#)
- [ReceiverParty](#)
  - ✧ Optionally used to describe who in the receiver location can be contacted to discuss document processing



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### Common Definition References - Elements

#### BusinessAcknowledgementDate

The [Date](#) and [Time](#) when the Business-Acknowledgement message was sent.



#### BusinessAcknowledgementNumber

The unique identifier for the Business-Acknowledgement message, not for the original Document.



#### Document

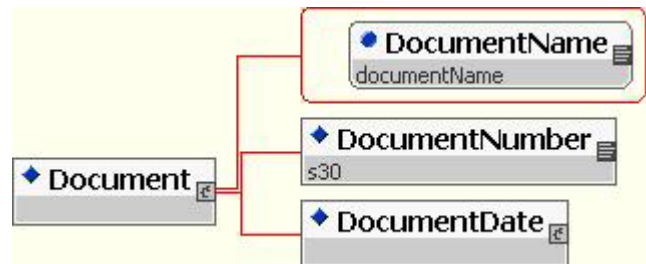
A group item containing information applicable to the original document whose disposition is being acknowledged.

Document contains a attribute, [DocumentName](#), which details the original document type

- [DocumentName](#)

Elements:

- [DocumentNumber](#)
  - ✧ The number of the original document
- [DocumentDate](#)
  - ✧ The date and time the original document was sent.

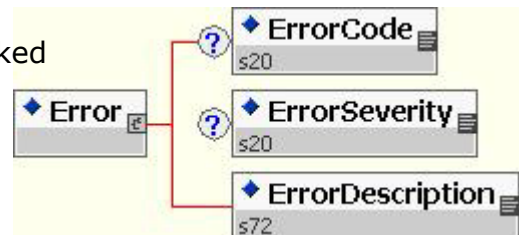


#### Error

A group item that details the errors that are delaying processing on an original document; present only when the Business Acknowledgement Status is marked "Failure".

Error contains the following elements:

- [ErrorCode](#)
- [ErrorSeverity](#)
- [ErrorDescription](#)



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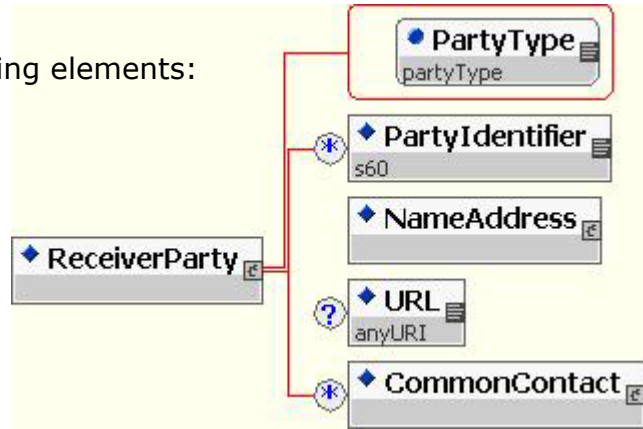
### ReceiverParty

The party for whom the information (message) is intended, typed by the attribute [PartyType](#).

ReceiverParty contains the following elements:

- [PartyIdentifier](#)
- [NameAddress](#)
- [URL](#)
- [CommonContact](#)

Refer to [Party](#) (in the Glossary) for additional information.



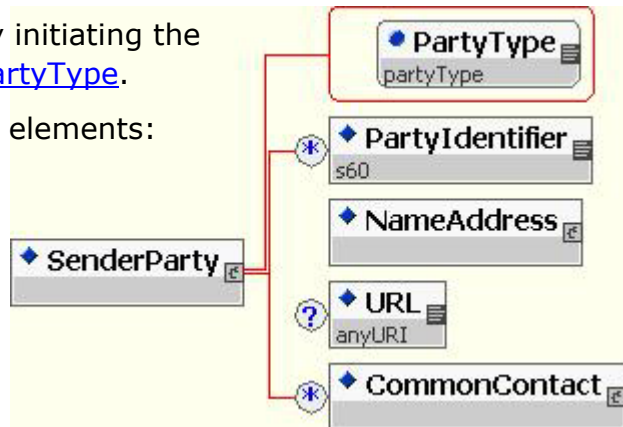
### SenderParty

The organisation or business entity initiating the message, typed by the attribute [PartyType](#).

SenderParty contains the following elements:

- [PartyIdentifier](#)
- [NameAddress](#)
- [URL](#)
- [CommonContact](#)

Refer to [Party](#) (in the Glossary) for additional information.



### TransactionHistoryNumber

A sequential number that keeps track of the version of any document being sent by the message originator.



**OrderConfirmation**– Used to associate an OrderConfirmation message with a specific PurchaseOrder message. This is the same number that was sent in the original purchase order.

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### Common Definition References – Attributes

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#### Language

XML has embraced 2 and 3 digit language codes through the application of an addendum to the standard. The various references are provided below.

papiNet has set the default value for Language to “eng”. RFC3066 would indicate that it should be set to “en” however, we feel that it is more appropriate to use the content-rich 3-digit codes whenever possible.

#### Used in:

- Availability
- BusinessAcknowledgement
- CallOff
- Complaint
- ComplaintResponse
- CreditDebitNote
- DeliveryMessage
- DeliveryMessageBook
- EndUses
- GoodsReceipt
- InfoRequest
- InventoryChange
- InventoryStatus
- Invoice
- OrderConfirmation
- OrderStatus
- PackagingDescription
- ProductDescription
- ProductQuality
- PurchaseOrder
- RFQ
- RFQResponse
- ShippingInstructions
- SenderProductAttributesDescription
- TermsAndDisclaimers
- Usage

#### Choices:

- <http://www.loc.gov/standards/iso639-2/>  
This is the official site of the ISO 639-2 Registration Authority.
- <http://www.w3.org/International/O-HTML-tags.html>  
Provides an explanation of the errata updating XML.
- <http://www.ietf.org/rfc/rfc3066.txt>  
is the key document that is referenced in the above errata.

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### **Status**

Defines whether or not the electronic transaction successfully processed in the receiver ERP system

#### **Used in:**

- BusinessAcknowledgement

#### **Choices:**

- **Failure** – Indicates that the electronic transaction failed to process in the receiver ERP system.
- **Success** – Indicates that the electronic transaction successfully processed in the receiver ERP system.

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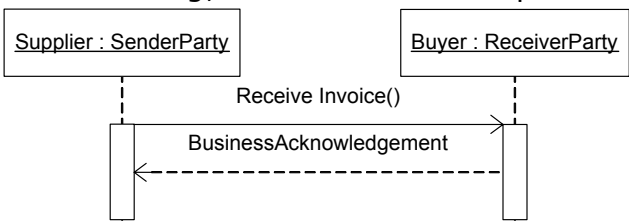
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### Business Acknowledgement Business Scenarios

#### Business Scenario List

<a href="#">Scenario A</a>	Business Acknowledgement: Success in Processing
<a href="#">Scenario B</a>	Business Acknowledgement: Failure in Processing

#### Scenario A

<b>Message</b>	Business Acknowledgement
<b>Business Scenario</b>	<p>Success in Processing; Invoice as an example</p>  <pre> sequenceDiagram     participant Supplier as Supplier : SenderParty     participant Buyer as Buyer : ReceiverParty     Buyer-&gt;&gt;Supplier: Receive Invoice()     Supplier--&gt;&gt;Buyer: BusinessAcknowledgement     </pre>
<b>Scenario Outcome</b>	Sender Records in their ERP system that the sent message has been processed
<b>Message Initiator</b>	Receiver of a Previous Electronic Message
<b>Message Receiver</b>	Sender of a Previous Electronic Message
<b>Preconditions</b>	Supplier sends Invoice document; example InvoiceNumber = "123459".
<b>Step 1</b>	Buyer successfully posts the Invoice into their ERP system recording it for later payment
<b>Step 2</b>	Buyer sends a Business Acknowledgement to the Supplier specifying that processing is successful; <ul style="list-style-type: none"> <li>Status = "Success"; DocumentName is set to "Invoice"</li> </ul>
<b>Step 3</b>	The Supplier system marks the Invoice document as successfully processed; there is no need to follow up on this document

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### Scenario B

<b>Message</b>	Business Acknowledgement
<b>Business Scenario</b>	<p>Failure to pass Edits; Invoice as an example</p> <pre> sequenceDiagram     participant S as Supplier : SenderParty     participant B as Buyer : ReceiverParty     S-&gt;&gt;B: Receive Invoice()     B--&gt;&gt;S: BusinessAcknowledgement     </pre>
<b>Scenario Outcome</b>	Sender Records in their ERP system that the message has an error that needs to be reconciled
<b>Message Initiator</b>	Receiver of a Previous Electronic Message
<b>Message Receiver</b>	Sender of a Previous Electronic Message
<b>Preconditions</b>	Supplier sends Invoice document; example InvoiceNumber = "123456"
<b>Step 1</b>	Buyer fails to post the Invoice into their ERP system getting an error that the "Invoice Net Amount is not equal to Contract Net Amount"
<b>Step 2</b>	<p>Buyer sends a Business Acknowledgement to the Supplier specifying that processing failed;</p> <ul style="list-style-type: none"> <li>Status = "Failure" and supplies an Error Description and optionally an Error Code; DocumentName is set to "Invoice".</li> <li>The Buyer sends CommonContact information on who to contact if further information is needed on the error condition</li> </ul>
<b>Step 3</b>	The Supplier system marks the Invoice document as a failure; there is need to follow up manually on this document