Global Standard for the Paper and Forest Products

Book Order Status Documentation

papiNet

March 2006

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Introduction

This document is designed for use within the Book Manufacturing Industry, consisting of publishers, printers, and component suppliers including paper. It is based upon the standard papiNet Order Status Message, but customized to fit the Book Manufacturing Industry usage. It will be useful to become acquainted with certain papiNet documents such as the Data Dictionary and Business Process. These can be found at the papiNet site, http://www.papinet.org.

An Overview of the OrderStatus Message

The purpose of the OrderStatus message is for the Printer/Binder or Component vendor to report the current status of an order, specific order line items, or to report status of multiple orders based upon some specified criteria. The message enables the sender to indicate a primary status as well as an additional secondary status at the order level as well as for each line and component.

Prior to implementing an OrderStatus message it is assumed that the parties involved have already opened a trading partner relationship and a collaborative agreement has been reached. Such an agreement might include frequency of messages, content details, etc.

A trading partner sends an OrderStatus message to another trading partner based on a schedule or on an event basis agreed between them. The event that triggers an OrderStatus message might be the receipt of an InfoRequest message, or a manufacturing stage.

The Scope of the OrderStatus Message

The OrderStatus message includes:

- A specific date upon which the OrderStatus is generated;
- Purchase order information such as PO number, release number, PO date; and/or product information such as ISBN Number, Title, Author;
- SenderParty
- OrderPrimaryStatus

The OrderStatus message may include:

- Quantity information such as the original order quantity as well as the current order status quantities (such as the number of reels in a certain manufacturing stage; the number of reels shipped, etc.)
- Order product details such as item numbers, and paper characteristics
- Dates, such as press date, last date of change, and estimated delivery date
- OrderSecondaryStatus
- Order line level Primary Status and Secondary Status
- Carrier and transportation information

Order Status Message Types

There are three message types for the OrderStatus message:

- ByPurchaseOrder
- BySupplierOrderNumber
- ByProduct

OrderStatus Business Rules

The following table list the business rules that apply to OrderStatus message

Identifier	Business Rule
OS001	The OrderPrimaryStatus must apply to the order as a whole (i.e., an order cannot be considered to be "Complete" unless each line item is "Complete")
OS002	If the OrderStatus message is in response to an InfoRequest message, the RequestNumber must be included and reflect the RequestNumber of the InfoRequest.
OS003	If the InfoRequest message does not indicate a specific line item, the response must include each line item and its corresponding status.

OS004	If the InfoRequest message order status request type indicates a response type of ByPurchaseOrder", then the OrderStatusType must also be "ByPurchaseOrder". Similarly for InfoRequest order status request types of "ByProduct" and "BySupplierOrderNumber". The OrderStatusType must be of "ByProduct" and "BySupplierOrderNumber" respectively.

Processing the OrderStatus message

- The OrderStatus message is the proper response to an InfoRequest message containing an InfoRequestType of "OrderStatus". Alternatively, it may be published on a previously agreed upon schedule based on time intervals or process manufacturing stages. Under this second scenario, the supplier would publish the message at the agreed upon schedule without requiring an InfoRequest message as the trigger.

- It is possible that the OrderStatus message would not be received and processed by the recipient's procurement or order generation system. In this scenario, the OrderStatus message would be received and printed out for distribution to interested parties or alternatively published 'on line' and viewed via a URL or some form of website access designed to display the status.

- The OrderStatus message is an information-only message. It does not alter the legal agreement between the parties regarding the order submission and fulfilment. If the OrderStatus message indicates a serious problem or issue with the ability of the supplier to fulfil the order, then the parties involved must resolve the issue. If the OrderStatus message indicates that the PurchaseOrder cannot be fulfilled, then the Parties to this transaction must resolve this open transaction through other means. (It is recommended that an Amended OrderConfirmation message be sent when a PurchaseOrder cannot be fulfilled.)

- Based on the message information requested by the customer, the OrderStatus is processed automatically in the supplier's system.

OrderStatus Schema Structure and Processing Logic

This section provides a detailed graphical view of the OrderStatus Schema structure; the InventoryStatus root element, the OrderStatusHeader and the OrderStatus. Discussions of the subordinates to Invoice can be found in the Glossary document and a review of the data-types can be found in the Design document (available at www.papiNet.org). This section also contains a review of the processing logic that is special to the OrderStatus message.

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

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OrderStatus

The root element of the Order Status message.

OrderStatusType [attribute] Type (Order Status Message Definition)

OrderStatusType is mandatory. A single instance is required.

Be aware that this attribute has two rather dissimilar definitions depending on where it is used.
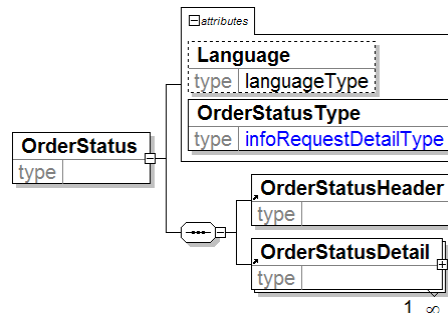
OrderStatus

- Communicates the method in which the order status has been summarized.

PurchaseOrderWood

- Communicates the stage of the wood Purchase Order.

Refer to the main item definition for any enumerations.

Language [attribute]

Language is optional. A single instance might exist.

XML has embraced 2 and 3 digit language codes through the application of an addendum to the standard.

Refer to the main item definition for any enumerations.

OrderStatusHeader

OrderStatusHeader is mandatory. A single instance is required.

Information that applies to the entire Order Status message.

OrderStatusDetail

OrderStatusDetail is mandatory. One instance is required, multiple instances might exist.

The specifics of the information being communicated in the Order Status message.

Primary Elements

OrderStatusHeader

Information that applies to the
entire Order Status message.

OrderStatusNumber

*OrderStatusNumber is mandatory. A
single instance is required.*

A number used to identify the Order
Status report.

OrderStatusResponseDate

*OrderStatusResponseDate is
mandatory. A single instance is
required.*

The Date and Time that the
OrderStatus message was created.

RequestNumber

RequestNumber is optional. A single instance might exist.

A unique tracking number specifically identifying the InfoRequest message to
the originator. The tracking number is returned with the "information", the
answer, to help match the answer to the request.

RequestingParty

RequestingParty is optional. A single instance might exist.

The party requesting the information.

RespondToParty

RespondToParty is optional. Multiple instances might exist.

The party the document should be responded to.

SenderParty

SenderParty is optional. A single instance might exist.

The business entity issuing the business document, the source of the
document.

- This is the same entity as the "From" party in the ebXML message service
  envelope. The entity responsible for the content. If the sender party has
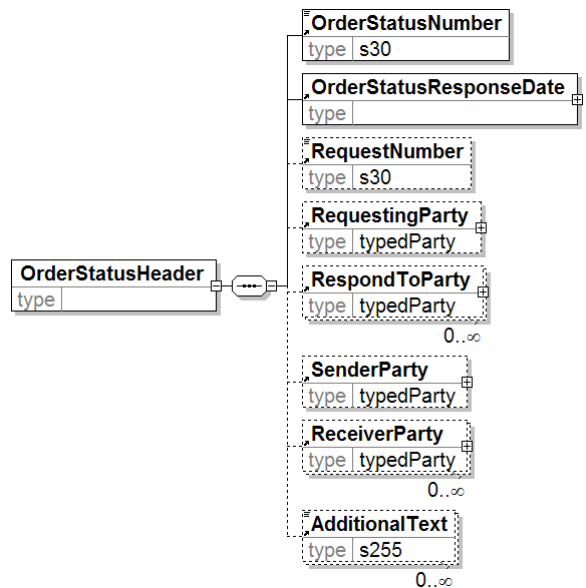
out sourced the transmission function to a third party the sender party is the original party not the party performing the transmission service.

ReceiverParty

ReceiverParty is optional. Multiple instances might exist.

The business entity for whom the business document is intended, the destination of the document.

- This is the same entity as the "To" party in the ebXML message service envelop. The entity interested in the content. If the receiver party has outsourced the message receipt function to a third party the receiver party is the intended party not the party performing the receiving process.

AdditionalText

AdditionalText is optional. Multiple instances might exist.

A text field that is used to communicate information not previously defined or for special instructions. To be used only for circumstances not covered by specific elements.

OrderStatusDetail

The specifics of the information being communicated in the Order Status message.

PurchaseOrderInformation

PurchaseOrderInformation is mandatory. A single instance is required.

A group item containing information unique to this purchase order, which is provided by the buyer. PurchaseOrderInformation can be optional in the supply chain. Invoices are created without having a Purchase Order in Vendor Managed Inventory. Freight invoices also will not have a Purchase Order number.

PurchaseOrderLineItemNumber

PurchaseOrderLineItemNumber is mandatory. A single instance is required.

The sequential number that uniquely identifies the purchase order line item.

(sequence)

(sequence) is optional. Multiple instances might exist.

SupplierOrderNumber

SupplierOrderNumber is mandatory. A single instance is required.

The number of the supplier order.

SupplierOrderLineItemNumber

SupplierOrderLineItemNumber is optional. A single instance might exist.

The number of the line item on the supplier order.

LocationParty

LocationParty is optional. A single instance might exist.
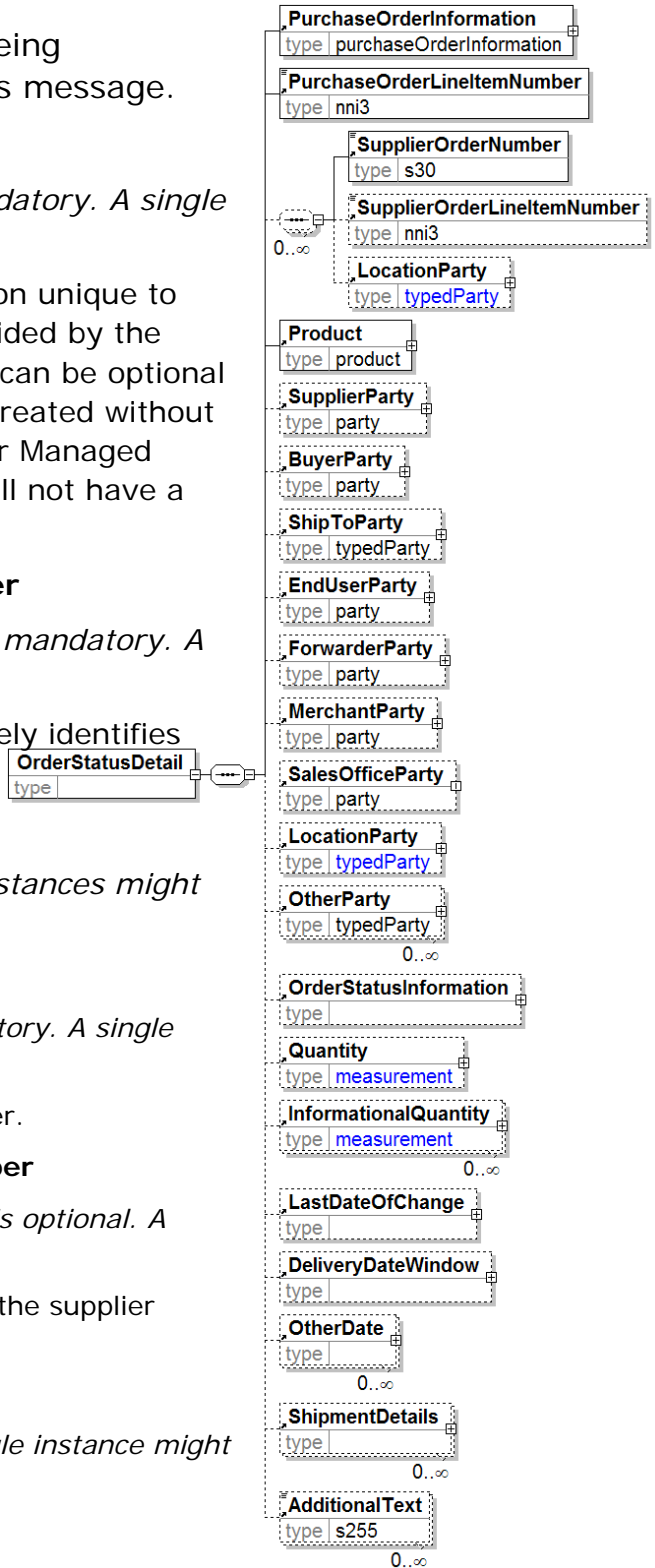
The organization or business entity where the business event took place or will take place.

Product

Product is mandatory. A single instance is required.

Product is a group item defining the article and its characteristics. Product is used to specify product characteristics organized by ProductIdentifier, ProductDescription, and Classification.

Book Manufacturing, Label Stock, Paper, Pulp, Recovered Paper, Wood Products, and Virgin Fibre market segments have defined their product characteristics and conversion features for implementation in papiNet. Refer to the specialized Product Data Dictionary, available at www.papiNet.org.

SupplierParty

SupplierParty is optional. A single instance might exist.

The organisation or business entity responsible for providing the product. SupplierParty is also the seller of the product, if Seller is not specified as OtherParty = Seller.

BuyerParty

BuyerParty is optional. A single instance might exist.

The legal entity to which the product is sold. Also commonly referred to as the sold-to party or customer.

ShipToParty

ShipToParty is optional. A single instance might exist.

The name and/or address to which the goods should be delivered with the party type indicated by the PartyType attribute.

EndUserParty

EndUserParty is optional. A single instance might exist.

The party using, consuming, or converting the product. For example, a printer using paper reels for a print job for a publisher. The final ShipTo destination for a product is normally to the end user's facilities.

ForwarderParty

ForwarderParty is optional. A single instance might exist.

The trading partner involved in the forwarding of the shipment.

MerchantParty

MerchantParty is optional. A single instance might exist.

This named party represents the merchant involved in the business transaction. This party is only used in the communication of Order Status otherwise it is handled via OtherParty.

SalesOfficeParty

SalesOfficeParty is optional. A single instance might exist.

This named party represents the sales office involved in the business transaction. This party is only used in the communication of Order Status otherwise it is handled via OtherParty.

LocationParty

LocationParty is optional. A single instance might exist.

The organization or business entity where the business event took place or will take place.

OtherParty

OtherParty is optional. Multiple instances might exist.

An organisation or business entity other than those specifically detailed within a business document.

OrderStatusInformation

OrderStatusInformation is optional. A single instance might exist.

A group element that stores two levels of Order status codes.

Quantity

Quantity is optional. A single instance might exist.

The Quantity element contains attributes that provide information about the type of quantity that is being communicated, the context in which the particular quantity is to be viewed, and (if the quantity represents an adjustment) an adjustment type.

The Quantity element contains three child elements that enable you to communicate a range of values for the quantity and a target or actual value. It is at this level (Value, RangeMin, and RangeMax) that the unit of measure is specified. This permits the range to be specified in a different unit of measure than the target.

InformationalQuantity

InformationalQuantity is optional. Multiple instances might exist.

A quantity given in a valid UOM used for information purposes only (not for calculation). For example, an ordered quantity was 100 reels as opposed to the invoice quantity of 20,000 pounds.

LastDateOfChange

LastDateOfChange is optional. A single instance might exist.

The last date for which changes to the line item may occur before it is "locked" in the production process. LastDateOfChange encapsulates Date.

DeliveryDateWindow

DeliveryDateWindow is optional. A single instance might exist.

A group item defining the date/time interval for delivery to take place. An element which may contain the estimated date for which delivery is expected. This date is not absolute.

OtherDate

OtherDate is optional. Multiple instances might exist.

A date that may not be specifically detailed within a document (example: print date at the PurchaseOrderLineItem).

ShipmentDetails

ShipmentDetails is optional. Multiple instances might exist.

A group element containing information that relates to the shipment details for the line item.

AdditionalText

AdditionalText is optional. Multiple instances might exist.

A text field that is used to communicate information not previously defined or for special instructions. To be used only for circumstances not covered by specific elements.

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Order Status Business Scenarios

OrderStatus Business Scenarios

Scenario A	Buyer/Publisher issues a Purchase Order to a Supplier and issues an InfoRequest to learn about the status of the order within the supplier's system. The InfoRequestType is "OrderStatus".
Scenario B	Buyer/Publisher issues a Purchase Order and later issues an InfoRequest to learn about the status of a specific product on that PO which has been ordered. The InfoRequestType is "OrderStatus".
Scenario C	Scenario C is skipped in the Book model for consistency at the documentation level with the broader papiNet Standard.
Scenario D	Partners have previously agreed upon the Supplier publishing a periodic OrderStatus update on a specific schedule. There is no InfoRequest message.
Scenario E	A small enterprise wants to check the status of an order via a web browser at an online marketplace. The Supplier publishes the current complete order status. The InfoRequestType is "OrderStatus".
Scenario F	Printer/Binder issues an InfoRequest to a Component Vendor to learn about the status of a Purchase Order issued by a Publisher to the Component Vendor for a product to be shipped to the Printer/Binder.

Scenario A

Message	OrderStatus
Type	ByPurchaseOrder
Business Scenario	Buyer/Publisher issues a Purchase Order to a Supplier and issues an InfoRequest to learn about the status of the order within the Mill system. The InfoRequestType is "OrderStatus" and the OrderStatusRequestDetailType is "ByPurchaseOrder".
Scenario Outcome	An InfoRequest is generated by the Buyer's system and received into the Supplier's system.
Initiator	Buyer
Receiver	Supplier
Trigger	None
Step 1	Buyer records an original request into their system then sends it to the Supplier. At a minimum, all required elements and corresponding attributes are recorded: • InfoRequestType = OrderStatus • RequestNumber = unique number • SenderParty = publisher • RequestingParty = publisher

Business Scenario diagram:

Buyer : RequestingParty → Supplier : ReceiverParty
Receive InfoRequest()
BusinessAcknowledgement

Supplier : SenderParty → Publisher : ReceiverParty
Receive OrderStatus()
BusinessAcknowledgement

	• RespondToParty = publisher • OrderStatusRequestDetailType = ByPurchaseOrder • ByPurchaseOrder = specified PO
Step 2	Seller receives an InfoRequest and responds with OrderStatus. At a minimum, all required elements and corresponding attributes are recorded: • OrderStatusType = ByPurchaseOrder • OrderStatusNumber = unique number • OrderStatusResponseDate = response date • RequestNumber = unique number • SenderParty = supplier • RequestingParty = publisher • RespondToParty = publisher • For each PO line item: • PurchaseOrderInformation = specified PO • PurchaseOrderLineItemNumber = PO line item • OrderStatusCode = status of PO line item • Product = product identifier It is likely that many of the optional elements in the OrderStatus message will also be populated in the response message.

Scenario B

Message	OrderStatus
Type	ByPurchaseOrder
Business Scenario	Buyer/Publisher issues a Purchase Order and later issues an InfoRequest to learn about the status of two specific line items contained within the Order. The InfoRequestType is "OrderStatus" and the OrderStatusRequestDetailType is "ByPurchaseOrder". Buyer : RequestingParty — Supplier : ReceiverParty Receive InfoRequest() BusinessAcknowledgement Supplier : SenderParty — Publisher : ReceiverParty Receive OrderStatus() BusinessAcknowledgement
Outcome	An InfoRequest is generated by the Buyer's system and received into the Supplier's system.
Initiator	Buyer
Receiver	Supplier
Trigger	None
Step 1	Buyer records an original request into their system then sends it to the Supplier. At a minimum, all required elements and corresponding attributes are recorded: • InfoRequestType = OrderStatus • RequestNumber = unique number • SenderParty = publisher • RequestingParty = publisher

	• RespondToParty = publisher • OrderStatusRequestDetailType = ByPurchaseOrder • ByPurchaseOrder = specified PO • PurchaseOrderLineItemNumber = specified PO line item 1 • PurchaseOrderLineItemNumber = specified PO line item 2
Step 2	Seller receives an InfoRequest and responds with OrderStatus. At a minimum, all required elements and corresponding attributes are recorded: • OrderStatusType = ByPurchaseOrder • OrderStatusNumber = unique number • OrderStatusResponseDate = response date • RequestNumber = unique number • SenderParty = supplier • RequestingParty = publisher • RespondToParty = publisher • For each PO line item: • PurchaseOrderInformation = specified PO • PurchaseOrderLineItemNumber = PO line item • OrderStatusCode = status of PO line item • Product = product identifier It is likely that many of the optional elements in the OrderStatus message will also be populated in the response message.

Scenario D

Message	OrderStatus
Type	ByPurchaseOrder or ByProduct
Business Scenario	Partners have previously agreed upon the Supplier publishing a periodic OrderStatus update on a specific schedule. ┌─────────────────────┐ ┌──────────────────────┐ │ Supplier : SenderParty │ │ Publisher : ReceiverParty │ └─────────────────────┘ └──────────────────────┘ Receive OrderStatus() BusinessAcknowledgement
Outcome	An OrderStatus is generated by the Supplier's system and received into the Buyer's system.
Initiator	NA
Receiver	Buyer
Trigger	Prearranged schedule
Step 1	Supplier initiates an OrderStatus message at predefined intervals. At a minimum, all required elements and corresponding attributes are recorded: • OrderStatusType = ByPurchaseOrder or ByProduct • OrderStatusNumber = unique number • OrderStatusResponseDate = response date • SenderParty = supplier • RequestingParty = publisher • RespondToParty = publisher • For each PO line item: • PurchaseOrderInformation = specified PO • PurchaseOrderLineItemNumber = PO line item
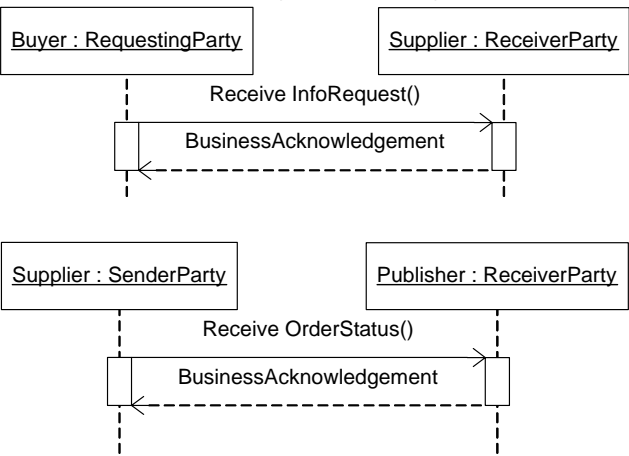
	and/or
	• Product = product identifier
	• OrderStatusCode = status of PO line item
	It is likely that many of the optional elements in the OrderStatus message will also be populated in the response message.

Scenario E

Message	OrderStatus
Type	ByPurchaseOrder
Business Scenario	A small enterprise wants to check the status of an order via a web browser at an online marketplace. The Supplier publishes the current complete order status. The InfoRequestType is "OrderStatus" and the OrderStatusRequestDetailType is "ByPurchaseOrder".
Outcome	An OrderStatus is generated by the Supplier's system and received into the Buyer's/Marketplace's system.
Initiator	Buyer/website
Receiver	Supplier
Trigger	InfoRequest
Step 1	The Buyer logs on to the website and views open orders online and indicate orders for which status is requested. Website creates InfoRequest and sends it to the Supplier. At a minimum, all required elements and corresponding attributes are recorded:

In the Business Scenario cell, the diagram contains:

Buyer : RequestingParty — Supplier : ReceiverParty
Receive InfoRequest()
BusinessAcknowledgement

Supplier : SenderParty — Publisher : ReceiverParty
Receive OrderStatus()
BusinessAcknowledgement

In the Step 1 cell:

- InfoRequestType = OrderStatus
- RequestNumber = unique number
- SenderParty = website or e-marketplace
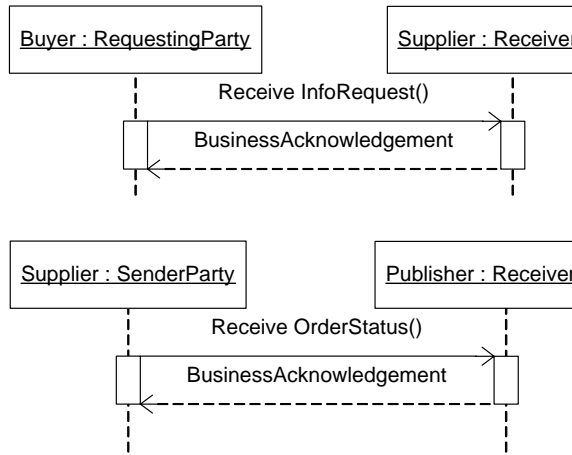
	• RequestingParty = publisher • RespondToParty = website or e-marketplace • OrderStatusRequestDetailType = ByPurchaseOrder • ByPurchaseOrder = specified PO
Step 2	Seller receives InfoRequest and responds with OrderStatus. At a minimum, all required elements and corresponding attributes are recorded: • OrderStatusType = ByPurchaseOrder • OrderStatusNumber = unique number • OrderStatusResponseDate = response date • RequestNumber = unique number • SenderParty = supplier • RequestingParty = website or e-marketplace • RespondToParty = publisher • For each PO line item: • PurchaseOrderInformation = specified PO • PurchaseOrderLineItemNumber = PO line item • OrderStatusCode = status of PO line item • Product = product identifier It is likely that many of the optional elements in the OrderStatus message will also be populated in the response message.

Scenario F

Message	OrderStatus
Type	ByPurchaseOrder
Business Scenario	Buyer/Publisher issues a PurchaseOrde[...] Component Vendor for a cover to be s[...] a printer/binder and transmits a copy [...] PurchaseOrder to the printer/binder. T[...] Printer/Binder later issues an InfoRequ[...] learn about the status of the covers or[...] which had been sent to the componen[...] The InfoRequestType is "OrderStatus" [...] OrderStatusRequestDetailType is "ByPurchaseOrder".
Outcome	An InfoRequest is generated by the Printer/Binder's system and received i[...] Component Vendor's system.
Initiator	Printer/Binder
Receiver	Supplier (Component Vendor)
Trigger	None
Step 1	Printer/Binder records an original requ[...] their system then sends it to the Supp[...] (component vendor). At a minimum, a[...]

	elements and corresponding attributes recorded:
	• InfoRequestType = OrderStatus
	• RequestNumber = unique number
	• SenderParty = printer/binder
	• RequestingParty = printer/binder
	• RespondToParty = printer/binder
	• OrderStatusRequestDetailType = ByPurchaseOrder
	• ByPurchaseOrder = specified PO
	• Product = specified product identif
Step 2	Supplier (Component Vendor) receives InfoRequest and responds with OrderS a minimum, all required elements and corresponding attributes are recorded:
	• OrderStatusType = ByPurchaseOr
	• OrderStatusNumber = unique num
	• OrderStatusResponseDate = respo
	• RequestNumber = unique number
	• SenderParty = supplier
	• RequestingParty = publisher
	• RespondToParty = publisher
	• For each PO:
	• PurchaseOrderInformation = speci
	• OrderStatusCode = status of PO li
	• Product = product identifier
	It is likely that many of the optional el

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Element	Type	Required	Occur-rence	Value/Notes
OrderStatus	Root	**Required**	Single	
Language	Attribute	Optional	Single	
OrderStatusType	Attribute	**Required**	Single	ByPurchaseOrd...
OrderStatusHeader	Group	**Required**	Single	
OrderStatusNumber	Element	**Required**	Single	CG08134A
OrderStatusResponseDate	Group	**Required**	Single	
Date	Group	**Required**	Single	
Year	Element	**Required**	Single	2002
Month	Element	**Required**	Single	07
Date	Element	**Required**	Single	22
Time	Element	Optional	Single	
RequestNumber	Element	Optional	Single	QM0802C07654
RequestingParty	Group	Optional	Single	
PartyIdentifier	Element	Optional	Multiple	9876534
PartyIdentifierType	Attribute	**Required**	Single	SAN
NameAddress	Group	**Required**	Single	
Name1	Element	**Required**	Single	Harper Collins P...
RespondToParty	Group	Optional	Multiple	Party Construct
PartyIdentifier	Element	Optional	Multiple	7778888
PartyIdentifierType	Attribute	**Required**	Single	SAN
NameAddress	Group	**Required**	Single	
Name1	Element	**Required**	Single	Quebecor - Mar...
SenderParty	Group	Optional	Single	Party Construct
PartyIdentifier	Element	Optional	Multiple	6665555
PartyIdentifierType	Attribute	**Required**	Single	SAN
NameAddress	Group	**Required**	Single	
Name1	Element	**Required**	Single	Coral Graphics
ReceiverParty	Group	Optional	Multiple	Party Construct
PartyIdentifier	Element	Optional	Multiple	9876534
PartyIdentifierType	Attribute	**Required**	Single	SAN
NameAddress	Group	**Required**	Single	
Name1	Element	**Required**	Single	Harper Collins P...
AdditionalText	Element	Optional	Multiple	
OrderStatusDetail	Element	**Required**	Multiple	
PurchaseOrderInformation	Group	**Required**	Single	

			PurchaseOrderNumber			Element	**Required**	Single	C-01056065
			PurchaseOrderReleaseNumber			Element	Optional	Single	
			PurchaseOrderIssuedDate			Group	Optional	Single	
			PurchaseOrderReference			Element	Optional	Multiple	
				PurchaseOrderReferenceType		Attribute	**Required**	Single	
		PurchaseOrderLineItemNumber				Element	Optional	Single	001
		"Supplier Order Group"				Group	Optional	Multiple	
			SupplierOrderNumber			Element	**Required**	Single	
			SupplierOrderLineItemNumber			Element	Optional	Single	
			LocationParty			Group	Optional	Single	Party Construct
		Product				Group	Optional	Single	
			ProductIdentifier			Element	**Required**	Multiple	Jacket006039240
			ProductIdentifierType			Attribute	**Required**	Single	PartNumber
				Agency		Attribute	**Required**	Single	Buyer
			ProductDescription			Group	Optional	Multiple	
				Language		Attribute	**Required**	Single	
				Text		Element	**Required**	Single	
			Classification			Group	Optional	Multiple	
				ClassificationCode		Element	**Required**	Single	
					Agency	Attribute	**Required**	Single	
				ClassificationDescription		Element	Optional	Multiple	
			Book Manufacturing			Group	Optional	Single	
		SupplierParty				Group	Optional	Single	
		BuyerParty				Group	Optional	Single	
		ShipToParty				Group	Optional	Single	
		EndUserParty				Group	Optional	Single	
		ForwarderParty				Group	Optional	Single	
		MerchantParty				Group	Optional	Single	
		SalesOfficeParty				Group	Optional	Single	
		LocationParty				Group	Optional	Single	
		OtherParty				Group	Optional	Multiple	
		OrderStatusInformation				Group	Optional	Single	
			OrderPrimaryStatus			Element	**Required**	Single	Accepted
				OrderStatusCode		Attribute	**Required**	Single	Packed
			OrderSecondaryStatus			Element	Optional	Single	Accepted
				OrderStatusCode		Attribute	Optional	Single	Unshipped
		Quantity				Group	Optional	Single	
			Value			Element	**Required**	Single	16110
				UOM		Attribute	**Required**	Single	Unit
			RangeMin			Element	Optional	Single	
			RangeMax			Element	Optional	Single	

					Type	Required	Occurrence	Value/Notes
		InformationalQuantity			Group	Optional	Multiple	
			Value		Element	**Required**	Single	
			RangeMin		Element	Optional	Single	
			RangeMax		Element	Optional	Single	
		LastDateOfChange			Group	Optional	Single	
		DeliveryDateWindow			Group	Optional	Multiple	
			DeliveryDateType		Attribute	**Required**	Single	DeliveryRequestedD
	1		DateTimeRange		Group	Optional	Single	
	1		Date		Group	**Required**	Single	
				Year	Element	**Required**	Single	2002
				Month	Element	**Required**	Single	07
				Date	Element	**Required**	Single	23
			Time		Element	Optional	Single	
		OtherDate			Group	Optional	Multiple	
	1	Date			Group	**Required**	Single	
		Time			Element	Optional	Single	
	1	Week			Element	**Required**	Single	
		ShipmentDetails			Element	Optional	Multiple	
		AdditionalText			Element	Optional	Multiple	

Element	Type	Required	Occur-rence	Value/Notes
OrderStatus	Root	**Required**	Single	
Language	Attribute	Optional	Single	
OrderStatusType	Attribute	**Required**	Single	ByProduct
OrderStatusHeader	Element	**Required**	Single	
OrderStatusNumber	Element	**Required**	Single	2VNH09212002
OrderStatusResponseDate	Group	**Required**	Single	
Date	Group	**Required**	Single	
Year	Element	**Required**	Single	2002
Month	Element	**Required**	Single	09
Date	Element	**Required**	Single	21
Time	Element	Optional	Single	
RequestNumber	Element	Optional	Single	
RequestingParty	Group	Optional	Single	
RespondToParty	Group	Optional	Multiple	
SenderParty	Group	Optional	Single	
PartyIdentifier	Element	Optional	Multiple	1234567
PartyIdentifierType	Attribute	Optional	Single	SAN
NameAddress	Group	**Required**	Single	
Name1	Element	**Required**	Single	VonHoffmannPress
ReceiverParty	Group	Optional	Multiple	

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			AdditionalText		Element	Optional	Multiple	
1			OrderStatusDetail		Element	**Required**	Multiple	
			PurchaseOrderInformation		Group	**Required**	Single	
				PurchaseOrderNumber	Element	**Required**	Single	**30-B88766A**
				PurchaseOrderReleaseNumber	Element	Optional	Single	
				PurchaseOrderIssuedDate	Group	Optional	Single	
				PurchaseOrderReference	Element	Optional	Multiple	007111511X
				PurchaseOrderReferenceType	Attribute	**Required**	Single	ISBN10
				PurchaseOrderReference	Element	Optional	Multiple	Chang
				PurchaseOrderReferenceType	Attribute	**Required**	Single	Author
			PurchaseOrderLineItemNumber		Element	**Required**	Single	001
			"Supplier Order Group"		Group	Optional	Multiple	
				SupplierOrderNumber	Element	**Required**	Single	
				SupplierOrderLineItemNumber	Element	Optional	Single	
				LocationParty	Group	Optional	Single	
			Product		Group	Optional	Single	
		1	ProductIdentifier		Element	**Required**	Multiple	
			ProductIdentifierType		Element	**Required**	Single	
				Agency	Attribute	**Required**	Single	
			ProductDescription		Group	Optional	Multiple	
			Classification		Group	Optional	Multiple	
			SupplierParty		Group	Optional	Single	
				PartyIdentifier	Element	Optional	Multiple	1234567
				PartyIdentifierType	Attribute	Optional	Single	SAN
				NameAddress	Group	**Required**	Single	
				Name1	Element	**Required**	Single	VonHoffmannPress
			BuyerParty		Group	Optional	Single	
			ShipToParty		Group	Optional	Single	
				PartyIdentifier	Element	Optional	Multiple	1119999
				PartyIdentifierType	Attribute	Optional	Single	SAN
				NameAddress	Group	**Required**	Single	
				Name1	Element	**Required**	Single	McGraw-Hill
				Name2	Element	Optional	Single	Gahanna Warehouse
			OrderStatusInformation		Element	Optional	Single	
				OrderPrimaryStatus	Element	**Required**	Single	Accepted
				OrderStatusCode	Attribute	**Required**	Single	ActiveFree
			DeliveryDateWindow		Group	Optional	Multiple	
				DeliveryDateType	Attribute	**Required**	Single	DeliveryRequestedD
		1	Date		Group	**Required**	Single	
				Year	Element	**Required**	Single	2002
				Month	Element	**Required**	Single	10
				Date	Element	**Required**	Single	04
				Time	Element	Optional	Single	

					Type	Optionality	Cardinality	Example
			ShipmentDetails		Element	Optional	Multiple	
				ShipToParty	Group	**Required**	Single	
				PartyIdentifier	Element	Optional	Multiple	1119999
					PartyIdentifierType	Attribute	Optional	Single	SAN
				NameAddress	Group	**Required**	Single	
					Name1	Element	**Required**	Single	McGraw-Hill
					Name2	Element	Optional	Single	Gahanna Warehouse
2	OrderStatusDetail				Element	**Required**	Multiple	
		PurchaseOrderInformation			Group	**Required**	Single	
			PurchaseOrderNumber		Element	**Required**	Single	**30-B91337**
			PurchaseOrderReleaseNumber		Element	Optional	Single	
			PurchaseOrderIssuedDate		Group	Optional	Single	
			PurchaseOrderReference		Element	Optional	Multiple	0072380128
				PurchaseOrderReferenceType	Attribute	**Required**	Single	ISBN10
			PurchaseOrderReference		Element	Optional	Multiple	Mason
				PurchaseOrderReferenceType	Attribute	**Required**	Single	Author
		PurchaseOrderLineItemNumber			Element	**Required**	Single	001
		"Supplier Order Group"			Group	Optional	Multiple	
			SupplierOrderNumber		Element	**Required**	Single	
			SupplierOrderLineItemNumber		Element	Optional	Single	
			LocationParty		Group	Optional	Single	
		Product			Group	Optional	Single	
	1		ProductIdentifier		Element	**Required**	Multiple	
			ProductIdentifierType		Element	**Required**	Single	
				Agency	Attribute	**Required**	Single	
		SupplierParty			Group	Optional	Single	
			PartyIdentifier		Element	Optional	Multiple	1234567
				PartyIdentifierType	Attribute	Optional	Single	SAN
			NameAddress		Group	**Required**	Single	
				Name1	Element	**Required**	Single	VonHoffmannPress
			OrderPrimaryStatus		Element	**Required**	Single	Cancelled
				OrderStatusCode	Attribute	**Required**	Single	Cancelled
		DeliveryDateWindow			Group	Optional	Multiple	
			DeliveryDateType		Attribute	**Required**	Single	DeliveryRequestedD
	1		Date		Group	**Required**	Single	
				Year	Element	**Required**	Single	2002
				Month	Element	**Required**	Single	11
				Date	Element	**Required**	Single	29
			Time		Element	Optional	Single	
3	OrderStatusDetail				Element	**Required**	Multiple	
		PurchaseOrderInformation			Group	**Required**	Single	
			PurchaseOrderNumber		Element	**Required**	Single	**30-B89969**
			PurchaseOrderReleaseNumber		Element	Optional	Single	

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			PurchaseOrderIssuedDate	Group	Optional	Single	
			PurchaseOrderReference	Element	Optional	Multiple	0072315679
			PurchaseOrderReferenceType	Attribute	**Required**	Single	ISBN10
			PurchaseOrderReference	Element	Optional	Multiple	Hybels
			PurchaseOrderReferenceType	Attribute	**Required**	Single	Author
		PurchaseOrderLineItemNumber		Element	**Required**	Single	001
		"Supplier Order Group"		Group	Optional	Multiple	
			SupplierOrderNumber	Element	**Required**	Single	
			SupplierOrderLineItemNumber	Element	Optional	Single	
			LocationParty	Group	Optional	Single	
	Product			Group	Optional	Single	
	1	ProductIdentifier		Element	**Required**	Multiple	
		ProductIdentifierType		Element	**Required**	Single	
			Agency	Attribute	**Required**	Single	
	SupplierParty			Group	Optional	Single	
		PartyIdentifier		Element	Optional	Multiple	1234567
			PartyIdentifierType	Attribute	Optional	Single	SAN
		NameAddress		Group	**Required**	Single	
			Name1	Element	**Required**	Single	VonHoffmannPress
	BuyerParty			Group	Optional	Single	
	ShipToParty			Group	Optional	Single	
		PartyIdentifier		Element	Optional	Multiple	1119999
			PartyIdentifierType	Attribute	Optional	Single	SAN
		NameAddress		Group	**Required**	Single	
			Name1	Element	**Required**	Single	McGraw-Hill
			Name2	Element	Optional	Single	Gahanna Warehouse
		OrderStatusInformation		Element	Optional	Single	
		OrderPrimaryStatus		Element	**Required**	Single	Accepted
			OrderStatusCode	Attribute	**Required**	Single	Packed
		OrderSecondaryStatus		Type	Optional	Single	Accepted
			OrderStatusCode	Attribute	Optional	Single	Unshipped
	Quantity			Group	Optional	Single	
		Value		Element	**Required**	Single	
		RangeMin		Element	Optional	Single	
		RangeMax		Element	Optional	Single	
	InformationalQuantity			Group	Optional	Multiple	
		Value		Element	**Required**	Single	
		RangeMin		Element	Optional	Single	
		RangeMax		Element	Optional	Single	
	LastDateOfChange			Group	Optional	Single	
	DeliveryDateWindow			Group	Optional	Multiple	
		DeliveryDateType		Attribute	**Required**	Single	DeliveryRequestedD
	1	DateTimeRange		Group	Optional	Single	

				DateTimeFrom		Group	**Required**	Single	
					Date	Element	**Required**	Single	
					Time	Element	Optional	Single	
				DateTimeTo		Group	**Required**	Single	
					Date	Element	**Required**	Single	
					Time	Element	Optional	Single	
		1	Month			Element	**Required**	Single	
		1	Week			Element	**Required**	Single	
		1	Date			Element	**Required**	Single	
				Year		Group	**Required**	Single	2002
				Month		Element	**Required**	Single	09
				Date		Element	**Required**	Single	20
			Time			Element	Optional	Single	
		OtherDate				Group	Optional	Multiple	
		ShipmentDetails				Element	Optional	Multiple	
			ShipToParty			Group	**Required**	Single	
			Quantity			Group	Optional	Single	