



papiNet

Order Status

papiNet Standard - Version 2.31

Documentation

**Global Standard for the Paper and Forest
Products Supply Chain**

June 2009

Production Release

Order Status

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OrderStatus Documentation

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;
- SenderParty

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
- A order and order line level status code
- Carrier and transportation information

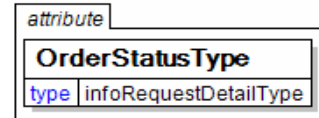
It is recommended that the sender of the OrderStatus message include the OrderStatusCode for the purchase order or supplier order in the message.

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OrderStatusType [attribute]

Communicates the method in which the order status has been, or should be, summarized.



This item is restricted to the following list.

ByProduct

By product

ByPurchaseOrder

By the purchase order the material was ordered

BySupplierOrderNumber

By the order the material was manufactured

Business Rules for OrderStatus

General Business Rules

The following table lists 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.

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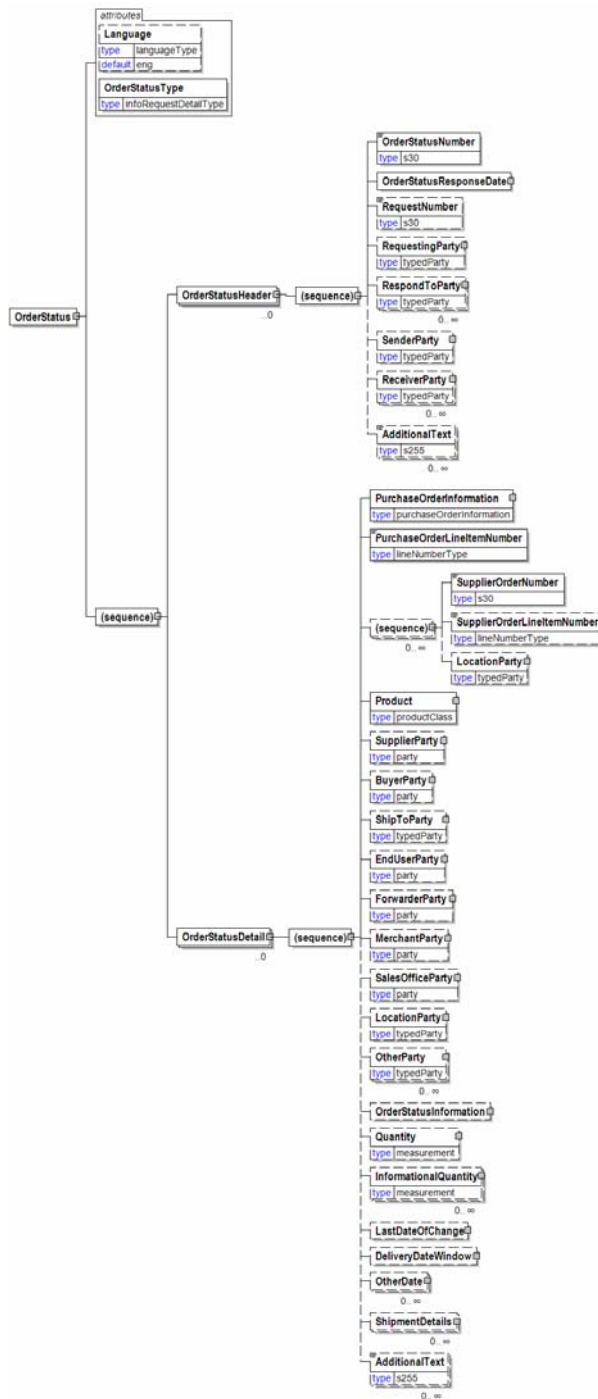
Processing the OrderStatus message

- 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.

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OrderStatus Structure



Understanding the Diagrams and Content

This section provides a graphical view of the schema structures, a discussion of the item's children. You can find additional information about papiNet and the standard at www.papiNet.org.

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The graphics contain content model indicators, cardinality indicators, and data type information.

Associated with each graphic are the definitions for the parent item and any associated child items. All attributes are listed first, followed by the elements.

The following information should help you interpret and understand this standard. Please note the following:

- Content Model and Cardinality operate together to determine if the element or attribute are required in the instance document.
- The same attribute can never appear multiple times in the same element so, you will never see a multiple cardinality indicator.

Content model indicators:

There are three possible types of content: "sequence", "choice", and "all". The papiNet standard currently does not use the "all" construct.

- (sequence)

The sequence of the items to the right of the graphic (or below the text) is required.

- (choice)

A choice of the items to the right of the graphic (or below the text) is permitted.

- (all)

All the items to the right of the graphic are required.

Cardinality indicators:

- Dotted line around element or attribute.

A single instance of the item can optionally exist.

- Dotted line around item with range indicated below.

Multiple instances of the item can optionally exist.

- Solid line around item.

A single instance of the item must exist.

- Solid line around item with range indicated below

At least one instance must exist; multiple instances can optionally exist.

Datatype indication:

When a data type is assigned to an element (either a simple type or complex type the name of the data type is presented beneath the item name in the graphic.

- In some cases additional information about the data type is presented (the default value).

Elements can either have content that is textual/numeric in nature or content that is made up of additional elements and/or attributes.

- When the content is textual/numeric in nature "three straight horizontal lines" will appear in the upper left-hand corner of the graphic. Pay attention to these elements because they are where you will be entering

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your information.

- When the content is made up of additional elements and/or attributes a "gray-box" will appear on the right-hand side of the graphic.
- If the graphic shows both the horizontal lines and the gray-box then, in the papiNet standard, the content below the element are attributes.

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Order Status Root Element

OrderStatus

The root element of the Order Status message.

OrderStatusType [attribute]

OrderStatusType is mandatory. A single instance is required.

Communicates the method in which the order status has been, or should be, summarized.

This item is restricted to the following list.

ByProduct

By product

ByPurchaseOrder

By the purchase order the material was ordered

BySupplierOrderNumber

By the order the material was manufactured

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.

Information on the content of this attribute is available at <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.

(sequence)

The contents of (sequence) are mandatory. A single instance is required.

OrderStatusHeader

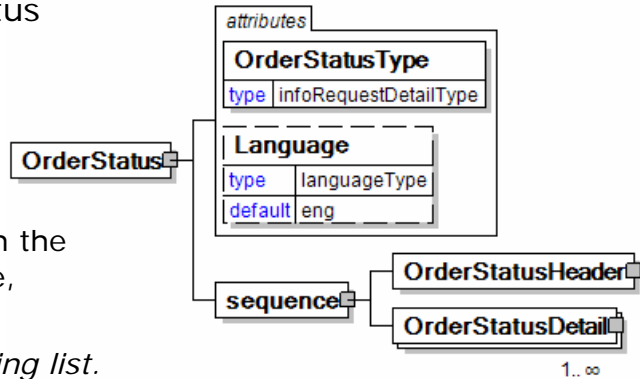
OrderStatusHeader is mandatory. A single instance is required.

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.



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Primary Elements

OrderStatusHeader

Information that applies to the entire Order Status message.

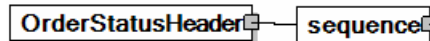
(sequence)

The contents of (sequence) are mandatory. A single instance is required.

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

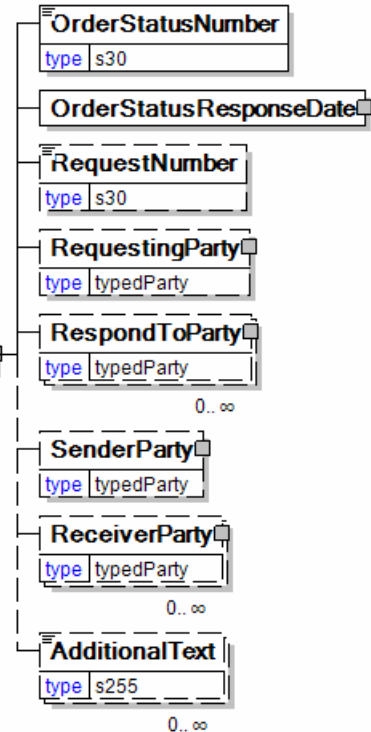
SenderParty is optional. A single instance might exist.

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 outsourced 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.



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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.

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OrderStatusDetail

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

(sequence)

The contents of (sequence) are mandatory. A single instance is required.

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)

The contents of (sequence) are optional. Multiple instances might exist.

SupplierOrderNumber

SupplierOrderNumber is mandatory. A single instance is required.

The number of the supplier order.

SupplierOrderLineItemNumber

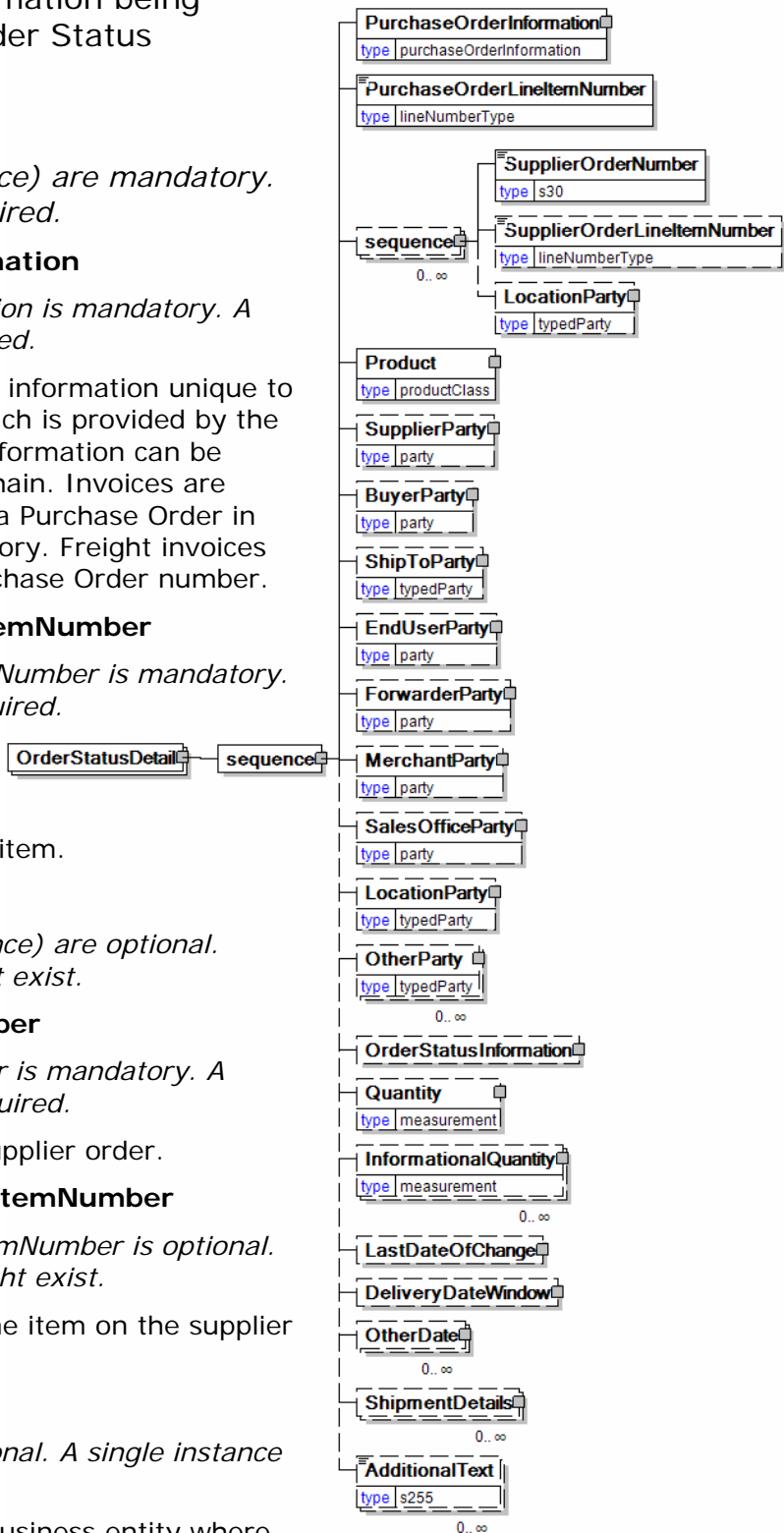
SupplierOrderLineItemNumber is optional. A single instance might exist.

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



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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.

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. If no OtherParty is defined as the Payer, the Buyer is the Payer.

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

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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).

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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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OrderStatus Business Scenarios

OrderStatus Scenario Listing

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	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 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
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".

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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.	<p>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:</p> <ul style="list-style-type: none"> • InfoRequestType = OrderStatus • RequestNumber = unique number • SenderParty = publisher • RequestingParty = publisher • RespondToParty = publisher • OrderStatusRequestDetailType = ByPurchaseOrder • ByPurchaseOrder = specified PO
Step 2.	<p>Seller receives an InfoRequest and responds with OrderStatus. At a minimum, all required elements and corresponding attributes are recorded:</p> <ul style="list-style-type: none"> • OrderStatusType = ByPurchaseOrder • OrderStatusNumber = unique number • OrderStatusResponseDate = response date • RequestNumber = unique number • SenderParty = supplier • RequestingParty = publisher • RespondToParty = publisher • For each PO line item: <ul style="list-style-type: none"> • PurchaseOrderInformation = specified PO • PurchaseOrderLineItemNumber = PO line item • OrderStatusCode = status of PO line item • Product = product identifier <p>It is likely that many of the optional elements in the OrderStatus message will also be populated in the response message.</p>

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Scenario B

Message	OrderStatus
Type	ByPurchaseOrder
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".
Outcome	An InfoRequest is generated by the Buyer's system and received into the Supplier's system.
Initiator	Buyer
Receiver	Supplier
Preconditions	What exists prior to the start?
Trigger	None
Step 1.	<p>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:</p> <ul style="list-style-type: none"> • 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.	<p>Seller receives an InfoRequest and responds with OrderStatus. At a minimum, all required elements and corresponding attributes are recorded:</p>

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	<ul style="list-style-type: none"> • OrderStatusType = ByPurchaseOrder • OrderStatusNumber = unique number • OrderStatusResponseDate = response date • RequestNumber = unique number • SenderParty = supplier • RequestingParty = publisher • RespondToParty = publisher • For each PO line item: <ul style="list-style-type: none"> • PurchaseOrderInformation = specified PO • PurchaseOrderLineItemNumber = PO line item • OrderStatusCode = status of PO line item • Product = product identifier <p>It is likely that many of the optional elements in the OrderStatus message will also be populated in the response message.</p>
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Scenario C

Message	OrderStatus
Type	ByPurchaseOrder
Scenario	Buyer/Publisher issues a PurchaseOrder 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" and the OrderStatusRequestDetailType is "ByPurchaseOrder".
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: <ul style="list-style-type: none"> • InfoRequestType = OrderStatus

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	<ul style="list-style-type: none"> • RequestNumber = unique number • SenderParty = publisher • RequestingParty = publisher • RespondToParty = publisher • OrderStatusRequestDetailType = ByPurchaseOrder • ByPurchaseOrder = specified PO • Product = specified product identifier
Step 2.	<p>Seller receives InfoRequest and responds with OrderStatus. At a minimum, all required elements and corresponding attributes are:</p> <ul style="list-style-type: none"> • OrderStatusType = ByPurchaseOrder • OrderStatusNumber = unique number • OrderStatusResponseDate = response date • RequestNumber = unique number • SenderParty = supplier • RequestingParty = publisher • RespondToParty = publisher <p>For each PO line item:</p> <ul style="list-style-type: none"> • PurchaseOrderInformation = specified PO • PurchaseOrderLineItemNumber = PO line item • OrderStatusCode = status of PO line item • Product = product identifier <p>It is likely that many of the optional elements in the OrderStatus message will also be populated in the response message.</p>

Scenario D

Message	OrderStatus
Type	ByPurchaseOrder or ByProduct
Scenario	Partners have previously agreed upon the Supplier publishing a periodic OrderStatus update on a specific schedule.
Outcome	An OrderStatus is generated by the Supplier's system and received into the Buyer's system.
Initiator	by schedule
Receiver	Buyer

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Preconditions	What exists prior to the start?
XML File	The name of any sample file.
Trigger	Prearranged schedule
Step 1.	<p>Supplier initiates an OrderStatus message at predefined intervals. At a minimum, all required elements and corresponding attributes are recorded:</p> <ul style="list-style-type: none"> • OrderStatusType = ByPurchaseOrder or ByProduct • OrderStatusNumber = unique number • OrderStatusResponseDate = response date • SenderParty = supplier • RequestingParty = publisher • RespondToParty = publisher <p>For each PO line item:</p> <ul style="list-style-type: none"> • PurchaseOrderInformation = specified PO • PurchaseOrderLineItemNumber = PO line item <p>and/or</p> <ul style="list-style-type: none"> • Product = product identifier • OrderStatusCode = status of PO line item <p>It is likely that many of the optional elements in the OrderStatus message will also be populated in the response message.</p>

Scenario E

Message	OrderStatus
Type	ByPurchaseOrder
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

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	system and received into the Buyer's/Marketplace's system.
Initiator	Buyer/website
Receiver	Supplier
Preconditions	What exists prior to the start?
Trigger	InfoRequest
Step 1.	<p>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:</p> <ul style="list-style-type: none"> • InfoRequestType = OrderStatus • RequestNumber = unique number • SenderParty = website or e-marketplace • RequestingParty = publisher • RespondToParty = website or e-marketplace • OrderStatusRequestDetailType = ByPurchaseOrder • ByPurchaseOrder = specified PO
Step 2.	<p>Seller receives InfoRequest and responds with OrderStatus. At a minimum, all required elements and corresponding attributes are recorded:</p> <ul style="list-style-type: none"> • OrderStatusType = ByPurchaseOrder • OrderStatusNumber = unique number • OrderStatusResponseDate = response date • RequestNumber = unique number • SenderParty = supplier • RequestingParty = website or e-marketplace • RespondToParty = publisher <p>For each PO line item:</p> <ul style="list-style-type: none"> • PurchaseOrderInformation = specified PO • PurchaseOrderLineItemNumber = PO line item • OrderStatusCode = status of PO line item • Product = product identifier

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	It is likely that many of the optional elements in the OrderStatus message will also be populated in the response message.
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Scenario F

Message	OrderStatus
Type	ByPurchaseOrder
Scenario	Buyer/Publisher issues a PurchaseOrder to a Component Vendor for a cover to be shipped to a printer/binder and transmits a copy of the PurchaseOrder to the printer/binder. The Printer/Binder later issues an InfoRequest to learn about the status of the covers on that PO which had been sent to the component vendor. The InfoRequestType is "OrderStatus" and the OrderStatusRequestDetailType is "ByPurchaseOrder".
Outcome	An InfoRequest is generated by the Printer/Binder's system and received into the Component Vendor's system.
Initiator	Printer/Binder
Receiver	Supplier (Component Vendor)
Trigger	None
Step 1.	Printer/Binder records an original request into their system then sends it to the Supplier (component vendor). At a minimum, all required elements and corresponding attributes are recorded: <ul style="list-style-type: none"> • InfoRequestType = OrderStatus • RequestNumber = unique number • SenderParty = printer/binder • RequestingParty = printer/binder • RespondToParty = printer/binder • OrderStatusRequestDetailType = ByPurchaseOrder • ByPurchaseOrder = specified PO • Product = specified product identifier

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Step 2.

Supplier (Component Vendor) 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 = publisher
- RespondToParty = publisher

For each PO:

- PurchaseOrderInformation = specified PO
- 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.