

Web Services Specification

Order Status Service

fcB2B Technical Team

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Introduction

This document details a specification for the Floor Covering Business to Business Order Status Services. The goal of these services is to build upon the existing capabilities between trading partners in the flooring industry. Extending the fcB2B standards to include support for Web Services greatly enhances the capabilities of buyers to make inquiries with suppliers and receive responses to those inquiries in near "real time".

Please see the fcB2B Web Services Overview document for common characteristics and requirements of all fcB2B Web Services.

Service Descriptions

The driving force in developing this specification is to move to open, internet-based web services standards. The overall data model and architecture is intended to be flexible enough to support multiple standards and protocols, however this specification currently only provides implementation details for RESTful implementations.

The following services and their recommended URLs are:

Service Name	Description	URL
Service Discovery	a request for the list of services provided by a Producer.	http://rest.example.com/services
Order Status	a basic request for the summary order status of a single order	http://rest.example.com/orderstatus?querystring
Orders	a request for all orders placed by a customer, limited to the # of most recent orders as requested	http://rest.example.com/orders?querystring
Order Status Details	a basic request for the detailed order status of a single order	http://rest.example.com/orderstatusdetail?querystring

NOTE: If agreed between **Producer (Supplier/Mill)** and **Consumer (Retailer/End Sale)**, the Order Status service may also be called *anonymously*.

Service Requests and Responses

	BASIC REQUEST (Customer #)	**CONSTRAINED REQUEST** (Specified Order Number)
SUMMARY RESPONSE	**Anon Order Status Orders**	
DETAILED RESPONSE		**Order Status Details**

Summary of Request Parameters with Cardinality

REQUEST	Anon. Order Status	Orders	Order Status Details
ClientIdentifier	-	M	M
OrderNumber	M	O	M
ResultsLimit	-	M	-
TimeStamp	M	M	M
GlobalIdentifier	O	O	O

Definitions of Request Parameters

Name	Description
OrderNumber	Supplier-assigned order identifier; reference number
ClientIdentifier	Supplier-assigned customer identifier (sender ID); recommend NOT using account number
ResultsLimit	Limits results to most recent by order date, integer
TimeStamp	ISO 8601 DateTime – fcB2B IsoDateTimeType
GlobalIdentifier	Arbitrary alphanumeric UUID (universally unique identifier) used to match response to request

Summary of Response Parameters with Cardinality

RESPONSE	Anon. Order Status	Orders	Order Status Details
ClientIdentifier	-	M	M
OrderNumber	M	M	M
PurchaseOrderNumber	M	M	M
OrderDate	M	M	M
ShipDate	O	O	O
StatusDescription	M	M	M
ShipVia	-	O	O
ShipViaDescription	-	O	O
SpecialInstructions	-	O	O
ShipToName	-	M	M
ShipToAddress1	-	M	M
ShipToAddress2	-	M	M
ShipToCity	-	M	M
ShipToState	-	M	M
ShipToCountrycode	-	M	M
ShipToZipcode	-	M	M
AdditionalMessage	-	O	O
OrderContact	-	O	O
JobName	-	O	O
InternationalFlag	-	O	O
LineNumber	-		M
ItemNumber	-	-	M
ItemDescription	-	-	O
UOM	-	-	O
ItemStatus	-	-	M
Price	-	-	O
ExtendedPrice	-	-	O
QuantityOrdered	-	-	O
QuantityShipped	-	-	O
QuantityBackordered	-	-	O
Dyelot	-	-	O
Size	-	-	O
RollNumber	-	-	O
Warehouse	-	-	O
Sidemark	-	-	O

Invoice	-	-	O
BackorderDate	-	-	O
ShipmentExpectedDate	-	-	O
ShipmentStatus	-	-	O
ShipmentCarrier	-	-	O
ShipmentCode	-	-	O
DeliveryExpectedDate	-	-	O
BillOfLading	-	-	O

☐ *Boxed elements are repeating elements that may loop within a single response*

Definitions of Response Parameters

Name	Description
ClientIdentifier	Echoed from Request
SupplierItemSKU	Echoed from Request
OrderNumber	
~~UserOrderNumber~~PurchaseOrderNumber	User Order #
tag	tag line
OrderDate	order date
ShipDate	ship date
StatusDescription	verbiage about current status
shipvia	Ship Via id#
shipviadescription	Ship Via description
specialinstructions	Special Instructions
shiptoname	ShipTo Name
shiptoaddress1	ShipTo Address 1
shiptoaddress2	ShipTo Address 2
shiptocity	ShipTo City
shiptostate	ShipTo State
shiptocountrycode	ShipTo Country Code
shiptozipcode	ShipTo Zip code
additionalmessage	Additional Messages
ordercontact	Order Contact
jobname	Job Name
internationalflag	International Flag (Y - ship to address is international)
linenumber	Order Line#
itemnumber	Native Item#
itemdescription	Item Description following Cust Item Logic

Name	Description
uom	Unit of measure of the quantity ordered
itemstatus	Order Status for the line item, reference standard codes
price	Unit Price
extendedprice	Extended price
quantityordered	Quantity of units Ordered
quantityshipped	Quantity of units Shipped
quantitybackordered	Quantity of units Backordered
dyelot	Dyelot, Optional
size	Item Size(s), Optional
rollnumber	Roll Number, Optional
warehouse	Shipping warehouse
sidemark	Sidemark / Comment
invoice	Invoice if there is one
backorderdate	Backorder date if there is one (formatted MM/DD/YY), expected production
shipmentexpecteddate	if needed - date of expected shipment when different from backorder_date
shipmentstatus	Free form description of shipment
shipmentcarrier	Text field for carrier name
shipmentcode	Text field for carrier shipment identifier
deliveryexpecteddate	date of expected delivery
billoflading	Bill of lading, if there is one
TimeStamp	ISO 8601 DateTime – fcB2B IsoDateTimeType
GlobalIdentifier	Echoed from Request Condition: request contains GlobalIdentifier

Detailed Specifications of Each Service

Order Status

Order Status is a means by which a **Consumer** can inquire on an order's summative status with a specific supplier. The **Consumer** calls the Order Status service and gets a response summarizing the order status, shipping status, and shipping information.

Request

Authenticated

http://rest.example.com/StockCheck?ClientIdentifier=<..>&
SupplierItemSKU=<..>&TimeStamp=<..>*&GlobalIdentifier*=<..>

Anonymous

http://rest.example.com/StockCheck?SupplierItemSKU=<..>&TimeStamp=<..>*&GlobalIdentifier=<..>*

* Parameters conform to ~~OrderStatusRequest.xsd~~OrderStatusRequest.xsd

Response

~~OrderStatusResponse.xsd~~OrderStatusResponse.xsd

Status Codes

Status Code	Description	HTTP Status	Severity
OrderNotFound	Order number does not exist	400	Error
Order	Order information	200	Information

Orders

Orders is a means by which **Consumer** can inquire on a list of orders with a specific supplier. The **Consumer** calls the Orders service and gets a response detailing the most recent orders, including the order status and ship-to information.

Request

http://rest.example.com/InventoryInquiry?ClientIdentifier=<..>&SupplierItemSKU=<..>&TimeStamp=<..>*&GlobalIdentifier=<..>*

* Parameters conform to ~~OrderStatusRequest.xsd~~OrderStatusRequest.xsd

Response

~~OrderStatusResponse.xsd~~OrderStatusResponse.xsd

Status Codes

Status Code	Description	HTTP Status	Severity
AccountNotFound	Customer account does not exist	400	Error
MustSpecifyResults	Maximum results must be specified	400	Error
NoOrders	No recent orders for consumer	204	Information
OrdersListed	Array of recent orders	200	Information

Order Status Details

Order Status Details is means by which a **Consumer** can make an order status request for a single order, with the intention of receiving an itemized response.

Request

http://rest.example.com/SolutionCheck?ClientIdentifier=<..>&SupplierItemSKU=<..>&ReqQuantityMaximum=<..>&ReqNeedByDate=<..>&ReqFOBPoint=<..>&ReqShadeOrDyeLot=<..>&ReqSameShadeOrDyeLot=<..>ReqRollOrCut&TimeStamp=<..>&GlobalIdentifier=<..>

* Parameters conform to ~~OrderStatusRequest.xsd~~OrderStatusRequest.xsd

Response

~~OrderStatusResponse.xsd~~OrderStatusResponse.xsd

Status Codes

Status Code	Description	HTTP Status	Severity
OrderNotFound	Order does not exist or is not under current consumer	400	Error
OrderBackordered	Order ship date is delayed or unknown	200	Information
OrderPending	Order status is pending/unallocated	200	Information
OrderAllocated	Order status is allocated (fully or partially assigned inventory)	200	Information
OrderPicked	Order status is picked/released for shipment	200	Information
OrderShipped	Order status is shipped	200	Information
OrderInvoiced	Order status is invoiced	200	Information
OrderCancelled	Order status is cancelled	200	Information

Status Messages

Producer systems MUST provide the appropriate HTTP status codes on errors and return the required **Messages** XML as defined in the **fcB2B-MessageList.xsd** schema as part of their response as defined in the fcB2B Web Services Overview. It is recommended that informational messages also be returned by **Producers** if this information is available.

Appendix A - XML Schemas

- fcB2B-CommonBasicComponents.xsd
- fcB2B-MessageList.xsd
- OrderStatusRequest.xsd
- OrderStatusResponse.xsd