

Web Services Specification

PriceInquiry Service

fcB2B Technical Team

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Change Log

Version	Change Date	Change Description
1.0 Update	October 4, 2024	• In Appendix A, the schema list was corrected from showing Inventory Request and Response to PriceInquiry. • Corrected the version discrepancy showing 1.0 and 2.1

Introduction

This document details a specification for the Floor Covering Business to Business PriceInquiry Web 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 **Error! Reference source not found.**	http://rest.example.com/services
Stock Check	a basic request for the first current availability of a single inventory item	http://rest.example.com/stockcheck?querystring
Inventory Inquiry	a basic request for all availability of a single inventory item	http://rest.example.com/inventoryinquiry?querystring
Related Items	a request for all items deemed related to a single inventory item, e.g. installation accessories, trims, moldings	http://rest.example.com/relateditems?querystring
Solution Check	a request with constraining parameters, e.g. shade or dye lot, for a fir the first current availability of a single inventory item	http://rest.example.com/solutioncheck?querystring
Solution Inquiry	a request for any and all combinations of availability for an item with constraining parameters, e.g. all rolls between a range of sizes or all cartons of a specified dye lot	http://rest.example.com/solutioninquiry?querystring
Price Inquiry	A request for an item's price with optional constraining parameters	http://rest.example.com/priceinquiry?querystring

Summary of Request Parameters with Cardinality

REQUEST	Price Inquiry
ClientIdentifier	M
SupplierItemSKU	M
RequestedQuantity	O
ReqUnitOfMeasure	C
ReqFOBPoint	O
ReqRollOrCut	C
JobQuoteReference	O
TimeStamp	M
GlobalIdentifier	O

Definitions of Request Parameters

Name	Description
ClientIdentifier	Supplier-assigned customer identifier; recommend NOT using account number
SupplierItemSKU	Vendor SKU# used for purchasing (as per fcB2B 832/850)
RequestedQuantity	Requested quantity in the specified UOM Numeric: ##########.###
ReqUnitOfMeasure	Unit of measure per UOM Table
ReqFOBPoint	If present, text in this element is the requested FOB Point (as provided in 832 Price Catalog)
ReqRollOrCut	Boolean / Flag; TRUE means as a Roll or Cut
JobQuoteReference	Reference for Pricing/Quote
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	Price Inquiry
ClientIdentifier	M
SupplierItemSKU	M
AvailableQuantity	C
AvailableUnitOfMeasure	C
RollOrCutFlag	C
AvailableFOBPoint	C

AvailableShadeOrDyeLot	C
RequestedUOM	C
AvailableUOM	C
UOMConversionFactor	C
Price	M
MinimumQuantityRestriction	C
TypeRestriction	C
JobQuoteRestriction	C
Promotion	C
PromotionStartDate	C
PromotionEndDate	C
PriceEffectiveDate	C
PriceExpirationDate	C
TimeStamp	M
GlobalIdentifier	O
Messages	O

Definitions of Response Parameters

Name	Description
ClientIdentifier	Echoed from Request
SupplierItemSKU	Echoed from Request
AvailableQuantity	Quantity available from the supplier
AvailableUnitOfMeasure	Unit of Measure of quantity
RollOrCutFlag	Echoed from Request
AvailableFOBPoint	FOB Point associated with quantity
AvailableShadeOrDyeLot	Shade or Dyelot for quantity
RequestedUOM	Echoed from Request
AvailableUOM	Available unit of measure
UOMConversionFactor	Conversion factor used when Available UOM differs from Requested UOM
Price	Price
MinimumQuantityRestriction	Minimum order quantity to get price
TypeRestriction	
JobQuoteRestriction	Reference for Pricing/Quote
Promotion	Boolean
PromotionStartDate	Date the promotional price begins
PromotionEndDate	Date the promotional price ends
PriceEffectiveDate	Date the price is effective

Name	Description
PriceExpirationDate	Date the price expires
TimeStamp	ISO 8601 DateTime – fcB2B IsoDateTimeType
GlobalIdentifier	Echoed from Request Condition: request contains GlobalIdentifier
ResponseMessage	Freeform response message

Detailed Specifications of Each Service

PriceInquiry

Price check is a means by which a Consumer can inquire on an item's price with a specific supplier. The consumer calls the price check service and gets a response summarizing the available pricing. The driving force in developing this service is to move to open, internet-based web services that will allow the dealer to verify price for items in their database. ***Request***

Authenticated

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

* Parameters conform to PriceInquiryRequest.xsd

Response

PriceInquiryResponse.xsdInventoryInquiryResponse_xsd

Status Codes

Status Code	Description	HTTP Status	Severity
SKUNotFound	SKU not available or does not exist	400	Error

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

Always check the fcB2B site to pull the latest version.

fcB2B-CommonBasicComponents.xsd

fcB2B-MessageList.xsd

PriceInquiryRequest.xsd

PriceInquiryResponse.xsd