

Web Services Specification

Document Service

fcB2B Technical Team

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Introduction

This document details a specification for the Floor Covering Business to Business Document 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 Producer.	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 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

Service Name	Description	URL
Price Inquiry	A request for an item's price with optional constraining parameters	http://rest.example.com/priceinquiry?querystring
Document Service	A request for related information pertaining to a product	http://rest.example.com/documentservice?querystring

Summary of Request Parameters with Cardinality

REQUEST	Document Service
ClientIdentifier	M
SupplierItemSKU	M
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)
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	Document Service
ClientIdentifier	M
SKU	M
Description	M
Location	M
IsImage	M

Definitions of Response Parameters

Name	Description
ClientIdentifier	Echoed from Request
SKU	Echoed from Request
Documents	Document
Description	A text description of the document
Location	The URI where the document resides
IsImage	Boolean (if information is an image)
TimeStamp	ISO 8601 DateTime – fcB2B IsoDateTimeType
GlobalIdentifier	Echoed from Request Condition: request contains GlobalIdentifier
Message	Freeform response message

Detailed Specifications of Each Service

DocumentService

Document Service is a means by which a Consumer can inquire on any additional information a vendor has related to the specified product. The consumer calls the document service and receives a response identifying all available resources. The driving force in developing this service is to move to open, internet-based web services that will allow the dealer to quickly find reference material and visual related to products.

Request

Authenticated

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

* Parameters conform to DocumentServiceRequest.xsd

Response

DocumentServiceResponse.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

DocumentServiceRequest.xsd

DocumentServiceResponse.xsd