

Advertising Specialty Institute

Professional Service Group

User guide provides details on integration of Product Web Services.

API User Guide

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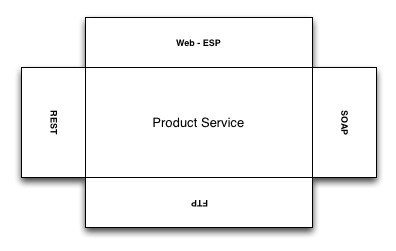
Response: 7

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# Introduction

Document address required technologies for integrating Product Service Web Services API. Product Services are exposed in RESTful and SOAP API’s with blocking calls. ASI Professional Services also provide bulk operations on products via excel sheet templates.



## REST

**RE**presentational **S**tate **T**ransfer is an architectural style and per Wiki definition:

Web services APIs that adhere to the REST constraints are called RESTful. RESTful APIs are defined with these aspects:

* Base URI, such as http://example.com/resources/
* An Internet media type for the data. This is often **JSON** but can be any other valid Internet media type (e.g. XML, Atom, microformats, images, etc.)
* Standard HTTP methods (e.g., GET, PUT, POST, or DELETE)
* Hypertext links to reference state
* Hypertext links to reference related resources

|  |  |
| --- | --- |
| Resource: **Collection URI, such as http://example.com/resources** | |
| **HTTP Method** | **Description** |
| **Get** | **List** the URIs and perhaps other details of the collection's members. |
| **PUT** | **Replace** the entire collection with another collection. |
| **POST** | **Create** a new entry in the collection. The new entry's URI is assigned automatically and is usually returned by the operation. |
| **DELETE** | **Delete** the entire collection. |

|  |  |
| --- | --- |
| Resource: **Element URI, such as http://example.com/resources/item17** | |
| **HTTP Method** | **Description** |
| **Get** | **Retrieve** a representation of the addressed member of the collection, expressed in an appropriate Internet media type. |
| **PUT** | **Replace** the addressed member of the collection, or if it doesn't exist, **create** it. |
| **POST** | Not generally used. Treat the addressed member as a collection in its own right and **create** a new entry in it. |
| **DELETE** | **Delete** the addressed member of the collection. |

The following table shows how the HTTP methods are typically used to implement a RESTful API.

## SOAP

Simple Object Access Protocol

## Batch

Bulk operations are also in place for client to process there product via template excel sheets. Templates can be downloaded from ESP web site for formats. File can be uploaded via ESP web site or via FTP.

MORE DETAIL NEEDED

# Authentication

# Product REST API’s

Product API’s are based on entities around product. Each entity represents a specific URI for clients to fetch data.

## GET Product JSON

### URI:

[https://customer1:password@api.asicentral.com/productService/resources/[customer-id]/pid/[product](https://customer1:password@api.asicentral.com/productService/resources/%5bcustomer-id%5d/pid/%5bproduct)-id]

Sample:

http://asi-tfsbld-03.asinetwork.local:8085/productService/resources/3879/pid/1472/price/801433316

### HTTP Headers

Authorization: Basic ZWx1c3VhcmlvOnlsYWNsYXZl

Accept: application/json

Content-Type: application/json

### HTTP Method:

GET

### Input:

customer-id: Customer ID of client

product-id: Product ID

### Response Status:

Success: HTTP.OK 200

### Response:

JSON:

{

"productID": "1472",

"priceID": "801433316",

"priceName": "74-93 SQ. IN.",

"priceType": "REGL",

"priceIncludes": "One color imprint",

"priceUponRequest": false,

"productNumber": "",

"firstPriceCriteria": "DIMS:Area:93:sq in.",

"secondPriceCriteria": "",

"isMultiPriceGrid": false,

"priceDetails": [

{

"sequenceNumber": 1,

"price": 26.45,

"quanty": 25,

"discount": "P",

"lowQuantity": null,

"highQuantity": null,

"netCost": 13.225,

"maxDecimalPlaces": 0,

"itemsPerUnit": 1,

"itemsPerUnitBy": "Piece"

},

{

"sequenceNumber": 2,

"price": 15.21,

"quanty": 50,

"discount": "P",

"lowQuantity": null,

"highQuantity": null,

"netCost": 7.605,

"maxDecimalPlaces": 0,

"itemsPerUnit": 1,

"itemsPerUnitBy": "Piece"

}

]

}

# Product Schema

## XSD Defination

<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:p="http://www.asicentral.com/schema/product" targetNamespace="http://www.asicentral.com/schema/product" elementFormDefault="qualified" attributeFormDefault="unqualified" >

<xs:element name="priceDetail" type="p:productDetailType"></xs:element>

<xs:complexType name="productDetailType">

<xs:sequence>

<xs:element name="ID" type="xs:int" />

<xs:element name="asiProdNo" type="xs:int" />

<xs:element name="companyId" type="xs:int" />

<xs:element name="originalProductId" type="xs:int" />

<xs:element name="externalProductId" type="xs:int" />

<xs:element name="name" type="xs:int" />

<xs:element name="description" type="xs:string" />

<xs:element name="summary" type="xs:string" />

<xs:element name="workflowStatusCode" type="xs:string" />

<xs:element name="changeProductReasonCode" type="xs:string" />

<xs:element name="workflowStatusStateCode" type="xs:string" />

<xs:element name="statusCode" type="xs:string" />

<xs:element name="productTypeCode" type="xs:string" />

<xs:element name="rushServiceFlag" type="xs:string" />

<xs:element name="sameDayRushFlag" type="xs:string" />

<xs:element name="newProductFlag" type="xs:string" />

<xs:element name="fullColorProcessFlag" type="xs:string" />

<xs:element name="visibleForAllUsersFlag" type="xs:string" />

<xs:element name="virtualProductFlag" type="xs:string" />

<xs:element name="nLevelConnectFlag" type="xs:string" />

<xs:element name="productLockedFlag" type="xs:string" />

<xs:element name="show1MediaIdIm" type="xs:int" />

<xs:element name="show1MediaIdVd" type="xs:int" />

<xs:element name="isCustomProduct" type="xs:boolean" />

<xs:element name="isShippableInPlainBox" type="xs:boolean" />

<xs:element name="isAvailableUnimprinted" type="xs:boolean" />

<xs:element name="isPersonalizationAvailable" type="xs:boolean" />

<xs:element name="isOrderLessThanMinimumAllowed" type="xs:boolean" />

<xs:element name="disclaimer" type="xs:string" />

<xs:element name="locationCode" type="xs:string" />

<xs:element name="isWIP" type="xs:boolean" />

<xs:element name="isProductNumberBreakout" type="xs:boolean" />

<xs:element name="isPriceBreakoutFlag" type="xs:boolean" />

<xs:element name="distributorComments" type="xs:string" />

<xs:element name="additionalInfo" type="xs:string" />

<xs:element name="itemPrice" type="p:itemPriceType" />

</xs:sequence>

</xs:complexType>

<xs:complexType name="itemPriceType">

<xs:sequence>

<xs:element name="productID" type="xs:int" />

<xs:element name="priceID" type="xs:int" />

<xs:element name="priceName" type="xs:string" />

<xs:element name="priceType" type="xs:string" />

<xs:element name="priceIncludes" type="xs:string" />

<xs:element name="priceUponRequest" type="xs:boolean" />

<xs:element name="productNumber" type="xs:string" />

<xs:element name="firstPriceCriteria" type="xs:string" />

<xs:element name="secondPriceCriteria" type="xs:string" />

<xs:element name="isMultiPriceGrid" type="xs:boolean" />

<xs:element name="priceDetail" type="p:priceDetailType"></xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="priceDetailType">

<xs:sequence>

<xs:element name="sequenceNumber" type="xs:int" />

<xs:element name="price" type="xs:decimal" />

<xs:element name="quanty" type="xs:int" />

<xs:element name="discount" type="xs:string" />

<xs:element name="netCost" type="xs:decimal" />

<xs:element name="maxDecimalPlaces" type="xs:int" />

<xs:element name="itemsPerUnit" type="xs:int" />

<xs:element name="itemsPerUnitBy" type="xs:string" />

</xs:sequence>

</xs:complexType>

</xs:schema>