



Vendor Stock Web Service Specification

The Uniform Solution includes a SOAP client that is designed to connect to a web service. The web services supply vendor stock information for our users in real time while they're looking up inventory and creating Special Orders or PO's. To lookup the stock level for an item the UPC is sent. And the current stock level is returned, if the item is out of stock, the date the item is due in stock is displayed.

Single UPC lookup

The Uniform Solution is quite flexible in the way it handles sending, receiving and parsing the requests and responses from manufacturers' web services. Your web service need not follow the exact format for tags or service names shown in this example. Those are left to your implementation. The following describes an example web service that contains the minimum amount and format of information that The Uniform Solution needs to display your stock level information to your customers.

An example request to lookup the stock level by UPC might look like something like this:

```
POST /yourservice.asmx HTTP/1.1
Host: yourhostinfo
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://yourinfo/StockLevel"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    < StockLevel xmlns="http://yourinfo/">
      <UPC>string</UPC>
    </ StockLevel >
  </soap:Body>
</soap:Envelope>
```

The UPC tag contains a string with the UPC to look up.

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An example response may look like this:

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    < StockLevelResponse xmlns="http://yourinfo/">
      <StockLevelResult>
        <StockLevel>string</StockLevel>
        <DateAvailable>string</DateAvailable>
      </StockLevelResult>
    </StockLevelResponse>
  </soap:Body>
</soap:Envelope>
```

The above response shows the two values are required; 1) The stock level value, 2) The date that "out of stock" items will be available.

Response values

Some vendors supply a numeric value for the stock level and others supply a description of the stock level. Use either the Numeric value method (preferred) **OR** the Description method outlined in the following tables:

Description	Stock Level to return	Available date
Item is discontinued	*DISC	empty string
UPC is Invalid	INVALID	empty string
Quantity	an Integer between 0 and 100 where zero is out of stock, 1-99 is an actual stock value, and 100 means there are at least 100 units of this item in stock.	Return date Item will be available in MM/DD/YYYY format in a separate field. If the date is unknown return an empty string.

Numeric value method

*Optional.

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Description	Stock Level to return	Available date
Item is discontinued	*DISC	empty string
UPC is Invalid	INVALID	empty string
Low Stock	LOW	empty string
In Stock,	INSTOCK	empty string
No Stock	OUTOFSTOCK	Return date Item will be available in MM/DD/YYYY format. If the date is unknown return an empty string.

Description method

*Optional.

Display in The Uniform Solution

When The Uniform Solution retrieves the stock information from the web service it displays one of three icons based upon the stock level returned by the web service:

Icon	Stock value from Numeric value or Description method		
Caution icon	(1) LOW	(2) Quantity less than 20	
X icon	(1) OUTOFSTOCK	(2) DISC	(3) INVALID
Check Icon	(1) INSTOCK	(2) Quantity 20+	

If a quantity of 100 is returned the value shown is "100+" to indicate there are at least 100 items in stock.

Here's an example of the how it's displayed in The Uniform Solution:

VStock	
	11/14/2007
	11/14/2007
	11/14/2007
	26
	9
	11/14/2007
	62
	40
	22