

Westcon Services Implementation Guide

Order Status

Version 2.0

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1.0		Thomas Young	Draft
2.0	2016-05-18	Thomas Young	Updated wsdl for v2.0
2.0.1	2016-05-19	Thomas Young	Added SoapUI test steps
2.0.2	2016-05-20	Thomas Young	Updated wsdl, added customer line number; removed wse wording
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1. Overview

Westcon Services are a suite of API's that serve as a direct B2B electronic link between Westcon and its partners, complementing existing website portals and other B2C links. Westcon Services offer a variety of services, including Pricing, Availability, Order Placement (Purchase Order), Order Change, Order Status and Return Merchandise Authorisation (RMA).

With Westcon Services, partners can seamlessly integrate information such as product pricing, stock availability obtained from Westcon in real-time – into both internal business and customer-facing services such as a shopping cart.

2.0 Getting Started

Welcome to Westcon Group partner integration! We will assist you along each step and answer questions throughout the process. We understand that each integration project is unique and you will be treated with the utmost attention and expediency.

2.1 Working with Westcon Group

Westcon will assemble a team to manage and implement your integration project.

The Application Integrations Team is available Monday – Friday, from 9:00 am EST to 5:00 pm EST. For questions or guidance on your implementation, kindly reach out to Brad Ross, (914) 829-7631.

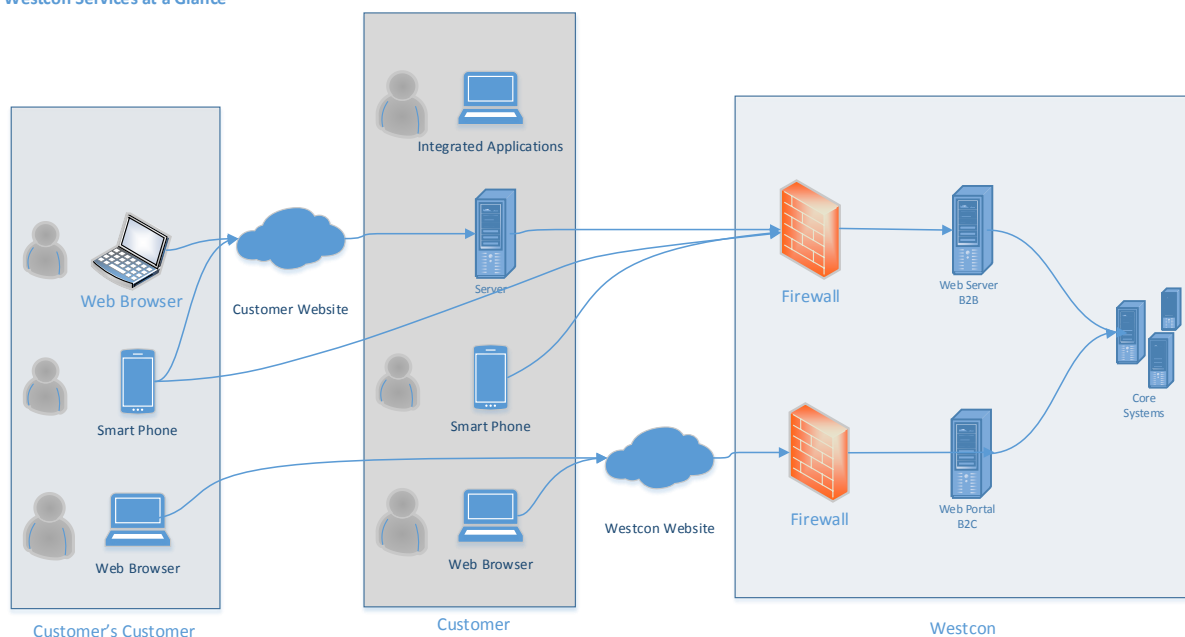
To contact our Support email address –

ITS_B2BSupport@Westcon.com

2.2 Accessing Westcon Group Services

Westcon Services may be accessed via http/https, typically from a customer web server; it could be from anywhere including mobile devices via a customer-provided proxy service.

Westcon Services at a Glance





As a WEB service, the concrete WSDL is provided to the partner. The request and response structure of these operations are described in the associated sections. To address the security requirements, the services have been exposed over a secure HTTPS transport and use WS-Security UsernamePassword Token Authentication (Microsoft WSE 3.0 Web Services Extensions).

3.0 Order Status

Service	Operations	Description
Order Status	GetOrderStatus	Retrieve order status

Environment	Url
QA	https://webservicetest.westcon.com/B2B/OrderStatus/v2/OrderStatus.svc?wsdl
Production	https://webservices.westcon.com/b2b/OrderStatus/v2/OrderStatus.svc?wsdl
Service definition	 SapOrderStatusWsdI2.0.xml

3.1 Request Schema

Merged Schema Name	Required	Type/	Example	Comments
WestconOrderStatus				<WestconOrderStatus>
CustomerAccountNumber	Required	string(10)	1234567	<CustomerAccountNumber>1234567</CustomerAccountNumber>
OrderNumberType	Required	string(1)	W	C for Customer PO Number, W for Westcon PO Number (W is default)
ReturnSerialNumberAndMACAddress	Required	boolean	TRUE	determines whether Serial Numbers and MAC Addresses are returned
Orders				<Orders>
Order				<Order>
OrderNumber	Required	string(35)	0020001502	Repeat for multiple orders Queried<OrderNumber>xxxx</OrderNumber>
Order				<Order>
Orders				<Orders>
WestconOrderStatus				<WestconOrderStatus>

3.2 Response Schema

Merged Schema Name	Type/Length	Example	Details	Version specific
WestconOrderStatus				
CustomerAccountNumber	string(10)	20001502	Your customer account number returned	
Errors			This block will be populated only in case of system errors	
ErrorNo		1	Error Number	
ErrorDetail	text	System Error.	Error Details	
Errors				
Orders				
Order				
CustomerNumber	string			
ERPOrderNumber	string(10)	8500	Westcon Order Number	
CustomerOrderNumber	String(40)	12345678	Customer Order Number	
OrderType	String(04)	ZOR, ZRE	Order Type ZRE: return order, ZOR: regular order	
HeaderStatusCode	String(02)	71	Two digit number	
HeaderStatusDescription	String(40)	Invoiced	Description for the HeaderStatusCode. See the	
OrderLines				
OrderLine				
ERPOrderLineNumber	number	10	Order Line Number	
CustomerLineNumber	string			2.0
ERPProductNumber	String(18)	CP-7975G=	Item/Product/SKU Number	
LineQuantity		10	Quantity	
UnitOfMeasure	String(02)	EA	Measurement units for LineQuantity	
LineStatusCode	String(02)	IA	Internal Order Line Status Code. See the list here	
LineStatusDescription	String(40)	Not yet	Order Line Status for ZOR Regular Orders :	
Tracking_Info				
Tracking_Number				



Carrier_Name				
Tracking_Info				
ScheduleLines				
ScheduleLine				
WestconScheduleLineNumber	number	1	Schedule Line Number	V2
PromisedDeliveryDate	date	20131201	Promised Delivery Date	
PromisedQuantity	number	235	Promised Quantity	
PurchasingDocumentNumber	string		Westcon PO number	V2
VendorSONumber	string		Vendor sales order number	V2
ScheduleLineStatusCode	String(02)	71	Schedule Line Status Code: same as Line Statuses, not all Schedules will return Status	
ScheduleLineStatusDescription	String()	Invoiced	Description for ScheduleLineStatusCode	
ScheduleLine				
ScheduleLines				
SerialNumbersandMACAddresses				
SerialNumbersandMACAddress				
ProductSerialNumber	String(20)	123456798	Serial Number for given Item in Schedule Line	
ProductMACAddress	String(20)	FF:AC:BB:22:3	MAC Address for given Item in Schedule Line	
SerialNumbersandMACAddress				
SerialNumbersandMACAddresses				
OrderLine				
OrderLines				
Order				
Orders				
WestconOrderStatus				

4.0 Consuming the Service

Please find the Order Status Request and Response fields below with examples. Required fields must be filled in, in order to get proper data.

There are 4 main sections that you need to populate for a successful order request:

- **OrderNumberType:** **W** or **C** for Westcon or Customer Order Number to be queried (respectively). If you will use your own value use "C"; if you will use the Westcon Order Number to query use "W" in this field
- **ReturnSerialNumberAndMACAddress:** provide **true** or **false** to instruct the service to return the Serial Number and MAC Address information in the call.
- **CustomerAccountNumber:** Provide your username as it appears in the Subscriber's Details Document. (This value has to match the Username under UsernameToken in the Soap Header section)
- **OrderNumber:** please include one or more Order Numbers in the Orders block. You cannot mix and match Customer and Westcon Order Numbers.

4.1 .NET Clients

4.1.1 Add Service Reference

Add Service Reference using the following WSDL:

<https://webservicetest.westcon.com/B2B/OrderStatus/v2/OrderStatus.svc?wsdl>

The following is the WSDL for QA environment

<https://webservices.westcon.com/B2B/OrderStatus/v2/OrderStatus.svc?wsdl>

4.1.2 Binding Configuration

Add the bindings in the client application's config file as below:

```
<wsHttpBinding>
  <binding name="WSHttpBinding_IOrderStatus">
    <security mode="TransportWithMessageCredential">
      <transport clientCredentialType="None" />
      <message clientCredentialType="UserName" establishSecurityContext="false" />
    </security>
  </binding>
</wsHttpBinding>
```

4.1.3 Endpoint Configuration

```
<endpoint
address="https://qa0109.na.westcongrp.com/B2B/OrderStatus/v2/OrderStatus.svc"
```



```
binding="wsHttpBinding" bindingConfiguration="WSHttpBinding_IOrderStatus"
contract="poSvc.IOrderStatus" name="WSHttpBinding_IOrderStatus" />
```

4.1.4 Sample Client Code

Values provided in the following code sample are only for demo purpose. They cannot be used as is.



POStatus.zip

```
//Assuming you named the service reference as poSvc
using System;
using POStatus.poSvc;
using System.Diagnostics;
using System.Net;

namespace POStatus
{
    class Program
    {
        private static void Main(string[] args)
        {
            //ignore ssl certificate errors
            ServicePointManager.ServerCertificateValidationCallback +=
                (se, cert, chain, sslerror) =>
                {
                    return true;
                };

            var orderStatusProxy = new OrderStatusClient
            {
                ClientCredentials =
                {
                    UserName = { UserName = "your account number", Password =
"your api key" }
                }
            };

            var request = new WestconOrderStatusRequest
            {
                WestconOrderStatus = new WestconOrderStatus
                {
                    CustomerAccountNumber = "your account number ",
                    OrderNumberType = "W",
                    Orders = new WestconOrderStatusOrders
                    {
                        new Order
                        {
                            OrderNumber = "xxxxx"
                        }
                    }
                },
            }
```

```

};

try
{
    var response = orderStatusProxy.GetOrderStatus(request);
    if (response.Orders.Count > 0)
        Trace.WriteLine(response.Orders[0].HeaderStatusDescription);
}
catch (Exception e)
{
    Trace.WriteLine(e);
}
}
}
}

```

4.2 Non.NET clients (HTTP Soap Request and Response – Platform Agnostic)

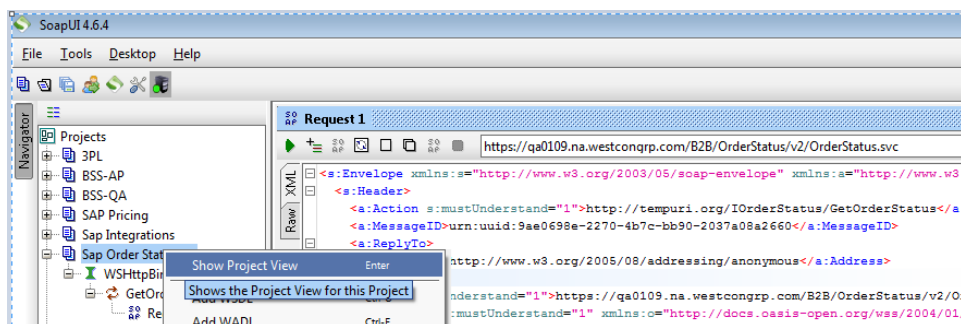
Caution:

- Please make sure to set your Content-Type to text/xml
- Please make sure to use the same date/time format as suggested

4.2.1 Configuring security

SoapUI configuration:

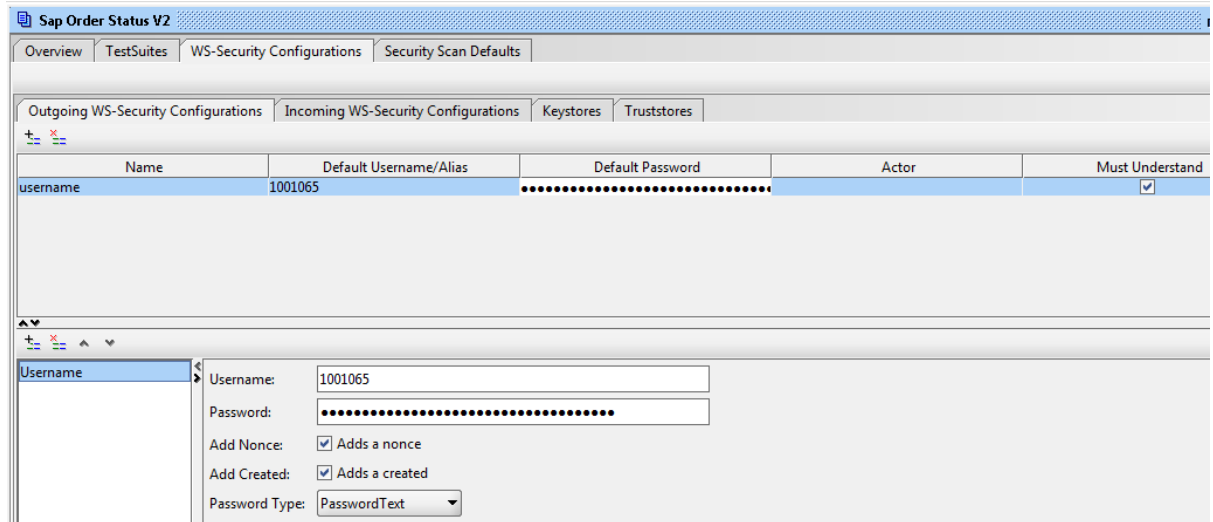
- Right click on Project folder, select Show Project View.



- Go to "WS-Security Configurations" tab
- Select Outgoing WS-security Configuration tab
- Click + icon on top and specify "username" or whatever, optionally enter default user/password

- Click second + icon (bottom left panel) and input the username, the password and the PasswordType in "PasswordText" (leave other 2 checkboxes marked).

The whole screen will look like below once all steps are completed:



The screenshot shows the 'Sap Order Status V2' application window. The 'WS-Security Configurations' tab is active, displaying a table of configurations. Below the table, the 'Username' configuration is selected, showing its details in a form.

Name	Default Username/Alias	Default Password	Actor	Must Understand
username	1001065			☒

Username: 1001065
 Password:
 Add Nonce: ☒ Adds a nonce
 Add Created: ☒ Adds a created
 Password Type: PasswordText

- For last go to the soap request and select Authorization Basic and "Outgoing WSS:" user or another created by you.

The screenshot shows a SOAP client interface. On the left is a tree view of service objects. The main area displays the XML request for the `GetOrderStatus` operation. The configuration panel at the bottom shows authentication settings.

Tree View:

- objects
 - 3PL
 - BSS-AP
 - BSS-QA
 - SAP Pricing
 - Sap Integrations
 - Sap Order Status V2
 - BasicHttpBinding_IOrderStatus
 - GetOrderStatus
 - Request 1
 - WSHttpBinding_IOrderStatus
 - GetOrderStatus
 - Request 1
 - Request 2
 - Sap QeQ
 - Startrack e-Service
 - Telstra Order Update
 - Weblynx
 - Westcon Availability
 - WestconQuotationRequest_Out
 - contract upload
 - startracking
 - westcon pricing

XML Request:

```
<?xml version='1.0' encoding='utf-8'>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:tem="http://tempuri.org/">
  <soapenv:Body>
    <tem:GetOrderStatus>
      <tem:request>
        <wes:WestconOrderStatus>
          <wes:CustomerAccountNumber>1001065</wes:CustomerAccountNumber>
          <wes:OrderNumberType>W</wes:OrderNumberType>
          <wes:Orders>
            <wes:Order>
              <wes:OrderNumber>704571</wes:OrderNumber>
            </wes:Order>
          </wes:Orders>
        </wes:WestconOrderStatus>
      </tem:request>
    </tem:GetOrderStatus>
  </soapenv:Body>
</soapenv:Envelope>
```

Configuration Panel:

- Authentication Type: Global HTTP Settings
- Username: []
- Password: []
- Domain: []
- Outgoing WSS: username
- Incoming WSS: []

Test Properties:

Property	Value
Request 1	

Buttons: Auth Headers (0) Attachments (0) WS-A WS-RM JMS Headers JMS Property (0)

You can now copy and paste the request Xml and submit to the service end point.

4.2.2 Sample Request

SAMPLE ORDER STATUS

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:tem="http://tempuri.org/"
  xmlns:wes="http://schemas.datacontract.org/2004/07/Westcon.B2B.WebServices.OrderStat
us.Contracts.Request">
  <soapenv:Body>
    <tem:GetOrderStatus>

      <tem:request>

        <wes:WestconOrderStatus>
          <wes:CustomerAccountNumber>1001065</wes:CustomerAccountNumber>
          <wes:OrderNumberType>W</wes:OrderNumberType>
          <wes:Orders>

            <wes:Order>
              <wes:OrderNumber>704571</wes:OrderNumber>
            </wes:Order>
          </wes:Orders>
        </wes:WestconOrderStatus>
      </tem:request>
    </tem:GetOrderStatus>
  </soapenv:Body>
</soapenv:Envelope>
```

```

        </wes:Order>
      </wes:Orders>
    </wes:WestconOrderStatus>
  </tem:request>
</tem:GetOrderStatus>
</soapenv:Body>
</soapenv:Envelope>

```

4.2.3 Sample Response

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://tempuri.org/IOrderStatus/GetOrderStatusResponse</a:Action>
    <a:RelatesTo>urn:uuid:9ae0698e-2270-4b7c-bb90-2037a08a2660</a:RelatesTo>
    <o:Security s:mustUnderstand="1" xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-
200401-wss-wssecurity-secext-1.0.xsd">
      <u:Timestamp u:Id="_0">
        <u:Created>2016-05-18T00:17:56.115Z</u:Created>
        <u:Expires>2016-05-18T00:22:56.115Z</u:Expires>
      </u:Timestamp>
    </o:Security>
  </s:Header>
  <s:Body>
    <GetOrderStatusResponse xmlns="http://tempuri.org/">
      <GetOrderStatusResult
xmlns:b="http://schemas.datacontract.org/2004/07/Westcon.B2B.WebServices.OrderStatus.Contracts.Re
sponse" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:WestconMetadata>
          <b:Culture>2000</b:Culture>
          <b:OperationType>OrderStatus</b:OperationType>
          <b:SourceSystem>B2BWEB</b:SourceSystem>
          <b:TimeStamp>2016-05-17T20:17:54</b:TimeStamp>
          <b:TransactionID>SI_WestconOrderStatus_Out</b:TransactionID>
        </b:WestconMetadata>
        <b:Orders>
          <b:Order>
            <b:CustomerNumber>0001001065</b:CustomerNumber>
            <b:CustomerOrderNumber>897879</b:CustomerOrderNumber>
            <b:ERPOrderNumber>0000543814</b:ERPOrderNumber>
            <b:Errors i:nil="true"/>
            <b:HeaderStatusCode>22</b:HeaderStatusCode>
            <b:HeaderStatusDescription>Sales Review</b:HeaderStatusDescription>
            <b:OrderLines>
              <b:OrderLine>
                <b:CustomerLineNumber i:nil="true"/>
                <b:ERPOrderLineNumber>000010</b:ERPOrderLineNumber>
                <b:ERPProductNumber>MB100</b:ERPProductNumber>
                <b:LineQuantity>1.000</b:LineQuantity>
                <b:LineStatusCode>22</b:LineStatusCode>
                <b:LineStatusDescription>Sales Review</b:LineStatusDescription>
                <b:ScheduleLines>
                  <b:ScheduleLine>
                    <b:PromisedDeliveryDate>2016-05-31T00:00:00</b:PromisedDeliveryDate>
                    <b:PromisedQuantity>0.000</b:PromisedQuantity>
                    <b:PurchasingDocumentNumber i:nil="true"/>
                    <b:ScheduleLineStatusCode>22</b:ScheduleLineStatusCode>

```

```

Review</b:ScheduleLineStatusDescription>
  <b:ScheduleLineStatusDescription>Sales
  <b:VendorSONumber i:nil="true"/>
  <b:WestconScheduleLineNumber>0001</b:WestconScheduleLineNumber>
  </b:ScheduleLine>
</b:ScheduleLines>
<b:SerialNumbersandMACAddresses/>
<b:TrackingInfos i:nil="true"/>
<b:UnitOfMeasure>EA</b:UnitOfMeasure>
</b:OrderLine>
</b:OrderLines>
<b:OrderType>ZOR</b:OrderType>
</b:Order>
</b:Orders>
<b:Exception i:nil="true"/>
<b:Errors i:nil="true"/>
</GetOrderStatusResult>
</GetOrderStatusResponse>
</s:Body>
</s:Envelope>

```

5.0 Reference Tables

5.1 Info Table (Sample)

This table contains customer specific details required for successful exchange with Westcon services. Customer should have received this during the on-boarding process.

Customer	SAMPLE COMPANY	This is your Company Name
Account: (username)	1001065	This is your Account number as it appears in our backend systems
Authentication Key: (password)	sN8DThqnkZEabGJt9PtCU8ILs3CjgTpDyFj1	This is a 36-character key with which you will be authenticated
Your Westcon Company	00011	This value is data that is specific to your account which should be included with your web service call
RBU / HRBU	119920 (for Westcon) 119951 (for Vodaone) 119992 (for Comstor)	This value is data that is specific to your account which should be included with your web service call
Currency	USD	
Route Code	U04	Used for PO
Shipping Method	1311	Used for PO
Main WWS-URL	https://webservices.westcon.com	

5.2 Order Status

Status Code	Description
00	Inactive
11	Finance Review
21	Sales Review
22	Sales Review
23	Sales Review
24	Sales Review
25	Sales Review
31	Backordered
32	PO Created
41	Scheduled
42	Scheduled
51	PO Created
52	Released
53	Sales Review
61	Finance Review
71	Released
72	Released
73	Invoiced
74	Invoiced