

T-HUB Service Specifications

T-HUB provides an easy and flexible framework to link an online store front into QuickBooks (Accounting and Point of Sale software). Your online store front needs to implement a script.

How does this work?

Let's say your shopping cart is developed in PHP environment. You would need to develop a script [say thubservice.php]. The desktop T-HUB application will make http POST calls to your script [thubservice.php] every few minutes with a XML document in the request attribute. The XML request in http POST will have a CommandName and other parameters. Your script will then process the request, read/write information from your shopping cart database and send an XML http response back to the T-HUB desktop application. The http response will depend on the CommandName sent in the request XML. Please note that these are not SOAP web services, you just need to implement http POST request/response model.

There are three levels of integration as explained below. Level 1 integration is mandatory. Level 2 and Level 3 integration are optional.

Level 1 Integration (Mandatory)

The service that needs to be implemented is

1. **getOrders** – Used by T-HUB client application to get online orders from website into QuickBooks. This service should only return the new orders from the online store.

Level 2 Integration (Optional)

There is one service that can be implemented by online shopping cart to allow update of Shipping Status.

1. **updateOrdersShippingStatus** – Used by T-HUB client to update the shipping information for the order online.

Level 3 Integration (Optional)

There is one service that can be implemented by online shopping cart to allow update of online inventory quantity from inventory in QuickBooks / QuickBooks POS.

1. **updateInventory** – Used by T-HUB client application to update online inventory quantities from local QuickBooks or QuickBooks POS.

Shopping Cart Certification

A shopping cart or a custom ecommerce webstore can develop the services to achieve integration with T-HUB and QuickBooks/QuickBooks POS. Once the service has been developed, Atandra will test and certify the services. A certification fee will be charged based on the levels of integration.

Integration Level	Certification Fee
Level 1	\$400
Level 2	\$550
Level 3	\$750

Service Implementation

The services can be implemented in any language/platform (.Net, Jsp/Servlet, PHP, cgi etc.).

Atandra can provide consulting services to help develop the website service module in ASP or PHP platform – call for details.

Handling special characters in XML request/response data

Special characters in XML data [e.g. <, &, > etc.] can cause problems in parsing and processing XML documents. To properly handle these scenarios, T-HUB uses Base64 encoding of text data in XML request/response documents. Encoding should only be used in fields that can contain user data and may therefore contain special characters [e.g. fields being Comment, Address1, Address2, ItemCode, ItemDescription etc.]. It is not necessary to encode system generated data like [OrderID, Date etc...]. To notify a encoded data use `encoding="yes"` in the XML element.

For example lets say a customer entered this text in the Order comment section

"Please apply discount as Order total > \$100"

Instead of sending

<Comment> Please apply discount as Order total > \$100</Comment>

Send the data as shown below

<Comment `encoding="yes"`>

UGxIYXNIIGFwcGx5IGRpc2NvdW50IGFzIE9yZGVyIHRvdGFsID4gJDEwMA==</Comment>

getOrders Service

getOrders service returns all new orders. For better bandwidth utilization only up to 25 orders should be returned in one response. The T-HUB will be responsible for downloading all transactions as long as there are no new transactions returned.

The request and response XML's are described below.

getOrders Request

Element Name	Occurrence	Max Length	Value	Attributes	Attribute Values	Description
REQUEST	1			Version	1.0	The root element for the request XML
REQUEST/Command	1	15	GetOrders			Command to request new orders from online store
REQUEST/UserID	1	75				Admin Login id for the store. The service should validate user/password in the request
REQUEST/Password	1	15				Same password used by store admin to manage the store
REQUEST/Status	1	15	All			Future use to get Orders based on named filters
REQUEST/Provider	0 or 1					Optional: Name of transaction provider. If specified send orders only for this provider, if missing then send orders from all providers
REQUEST/LimitOrderCount	1		25			Number of orders to return in one response. If no value sent, use 25 as default.
REQUEST/OrderStartNumber	1					Required. Default is 0. The service should return all orders whose Order number in database > OrderStartNumber
REQUEST/NumberOfDays	0 or 1					Optional parameter to instruct shopping cart to send historical data. Recommended approach: When OrderStartNumber = 0 then use the value sent in NumberOfDays to return last x days orders as specified by NumberOfDays parameter. When OrderStartNumber > 0 then ignore the NumberOfDays parameter and send orders based on OrderNumber >=

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REQUEST/DownloadStartDate	0 or 1					OrderStartNumber Optional parameter to instruct shopping cart to send historical data Starting with a specific order date. Recommended approach: When Order numbers are not guaranteed to be in chronological sequence (lower order number may be created AFTER a higher order number has been created) FORMAT: M/D/YYYY HH:NN:SS AM/PM SAMPLE DATE: 4/8/2014 04:02:33 AM
REQUEST/SecurityKey	0 or 1	75				Can be used by web service for additional security for the service (in addition to user ID and password)

Sample request XML for getOrders call is shown below

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<REQUEST Version="2.8">
  <Command>GetOrders</Command>
  <UserID>myloginId</UserID>
  <Password>myPassword</Password>
  <Status>all</Status>
  <Provider>YAHOO</Provider>
  <LimitOrderCount>25</LimitOrderCount>
  <OrderStartNumber>1066</OrderStartNumber>
  <NumberOfDays>5</NumberOfDays>
  <DownloadStartDate>4/8/2014 04:02:33 AM</DownloadStartDate>
  <SecurityKey>xyz</SecurityKey>
</REQUEST>
```

getOrders Response

Element Name	Occurrence	Max Length	Value	Attributes	Attribute Values	Description
RESPONSE	1			Version	1.0	The root element for the response XML
RESPONSE/Envelope	1					Contains header information for the orders response xml.
RESPONSE/Envelope/Command	1	15	GetOrders			Command to request new orders from online store
RESPONSE/Envelope/StatusCode	1	6				0 → All OK 1000 → No Orders returned 9000 → Login failed 9999 → Other Error
RESPONSE/Envelope/StatusMessage	1	150				Descriptive message for any error condition.
RESPONSE/Envelope/Provider	1	25				Name of the online store provider. Use the value GENERIC unless another value provided by Atandra
RESPONSE/Orders	0 or 1					Parent block containing orders returned.
RESPONSE/Orders/Order	1 or more					Parent block containing an order.
RESPONSE/Orders/Order/OrderID	1					Unique Order ID
RESPONSE/Orders/Order/ProviderOrderRef	1	25				Unique Order ID from provider (can be different from OrderID if orders are hosted by a common service). In most cases this will be same as the OrderID
RESPONSE/Orders/Order/TransactionType	0 or 1					Transaction type. Allowed values <ul style="list-style-type: none"> • Sale • Return If no value passed then sale is assumed
RESPONSE/Orders/Order/OriginalOrderID	0 or 1					Optional field. Pass the original sale Order ID if the current order is of type Return
RESPONSE/Orders/Order/Date	1					Order Date in YYYY-MM-DD format
RESPONSE/Orders/Order/Time	1					Order Time in HH:MIN:SEC format
RESPONSE/Orders/Order/TimeZone	1					Timezone code. EST; PST; CST;MST
RESPONSE/Orders/Order/UpdatedOn	0 or 1					Date time when the order was updated on the website database. This value will be sent in DownloadStartDate parameter for next Order download request.
RESPONSE/Orders/Order/StoreID	1					Unique StoreID for the web store
RESPONSE/Orders/Order/StoreName	0 or 1					Optional name of the web store
RESPONSE/Orders/Order/CustomerID	0 or 1					Optional customer ID from website
RESPONSE/Orders/Order/CustomerType	0 or 1					Optional Customer Type. Used to set the Customer type in QuickBooks.

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RESPONSE/Orders/Order/SalesRep	0 or 1					Optional Sales Rep code
RESPONSE/Orders/Order/Comment	0 or 1					Optional comment from customer
RESPONSE/Orders/Order/MerchantNotes	0 or 1					Optional comment from Merchant staff for internal use
RESPONSE/Orders/Order/Currency	1					Currency for the order
RESPONSE/Orders/Order/Bill	1					Parent block containing Billing Address
RESPONSE/Orders/Order/Bill/PayMethod	1	15				Payment Method. Example values <ul style="list-style-type: none"> • CreditCard • Check • PO • Cash • Paypal • Other
RESPONSE/Orders/Order/Bill/PayStatus	1	8				Payment Status. Example values <ul style="list-style-type: none"> • Pending • Cleared
RESPONSE/Orders/Order/Bill/PayDate	0 or 1					Optional payment date. If no value supplied, OrderDate will be used as Payment date. Date in YYYY-MM-DD format
RESPONSE/Orders/Order/Bill/FirstName	1	45				
RESPONSE/Orders/Order/Bill/LastName	1	45				
RESPONSE/Orders/Order/Bill/MiddleName	0 or 1	25				
RESPONSE/Orders/Order/Bill/CompanyName	0 OR 1	75				
RESPONSE/Orders/Order/Bill/Address1	1	75				Address Line 1
RESPONSE/Orders/Order/Bill/Address2	0 or 1	75				Address Line 2
RESPONSE/Orders/Order/Bill/City	1	75				City
RESPONSE/Orders/Order/Bill/State	1	75				State
RESPONSE/Orders/Order/Bill/Zip	1	75				Zip
RESPONSE/Orders/Order/Bill/Country	1	75				Country
RESPONSE/Orders/Order/Bill/Email	1	150				Email
RESPONSE/Orders/Order/Bill/Phone	1	15				Phone
RESPONSE/Orders/Order/Bill/PONumber	0 or 1	25				PO Number if used on the order
RESPONSE/Orders/Order/Bill/PaymentAmount	0 or 1					If present you can specify a payment amount on the order. An Order can be for say \$100 and PaymentAmount = \$75. In this case the invoice in QuickBooks would show a balance due of \$25. If no value provided then OrderTotal will be assumed

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						as AmountPaid
RESPONSE/Orders/Order/Bill/CreditCard	0 or 1	15				Parent block for Credit card information
RESPONSE/Orders/Order/Bill/CreditCard/CreditCardType	1	15				e.g. VISA, AMEX, MASTER
RESPONSE/Orders/Order/Bill/CreditCard/CreditCardCharge	1	15				
RESPONSE/Orders/Order/Bill/CreditCard/ExpirationDate	1	15				
RESPONSE/Orders/Order/Bill/CreditCard/CreditCardName	1	45				Name on Card.
RESPONSE/Orders/Order/Bill/CreditCard/CreditCardNumber	1	21				Credit card Number. *** Send only last few digits if security is a concern.
RESPONSE/Orders/Order/Bill/CreditCard/CVV2	0 or 1	4				Optional - credit card verification number
RESPONSE/Orders/Order/Bill/CreditCard/AuthDetails	0 or 1	150				Authorization details of the charge. Optional (AuthCode, TransId, AVSCode) E.g. AuthCode=Q31234;TransId=4423412312;AVSCode=P
RESPONSE/Orders/Order/Bill/CreditCard/TransactionID	0 or 1	25				TransactionID generated by payment gateway.
RESPONSE/Orders/Order/Bill/CreditCard/SettlementBatchID	0 or 1					Optional Settlement Batch ID
RESPONSE/Orders/Order/Bill/CreditCard/ReconciliationData	0 or 1					Optional field to report reconciliation data - currently to be used by QuickBooks Merchant services.
	<p>Sample data returned by QBMS looks like below:</p> <pre><CreditCardTxnResultInfo><ResultCode>0</ResultCode><ResultMessage>Status OK</ResultMessage><CreditCardTransID>MA0011995555</CreditCardTransID><MerchantAccountNumber>4269283000155555</MerchantAccountNumber><AuthorizationCode>025555</AuthorizationCode><AVSStreet>Pass</AVSStreet><AVSZip>Pass</AVSZip><ReconBatchID>4200666666 Visa 2006-07-18 QBMS 17.0 pre-beta</ReconBatchID><PaymentGroupingCode>5</PaymentGroupingCode><PaymentStatus>Completed</PaymentStatus><TxnAuthorizationTime>2006-07-18T17:25:33</TxnAuthorizationTime><TxnAuthorizationStamp>1153243533</TxnAuthorizationStamp></CreditCardTxnResultInfo></pre>					
RESPONSE/Orders/Order/Ship	1					Parent block containing Shipping Address
RESPONSE/Orders/Order/Ship/ShipStatus	0 or 1	15				Valid values New, Shipped
RESPONSE/Orders/Order/Ship/ShipDate	0 or 1					Can be blank or valid date shipped in yyyy-mm-dd format
RESPONSE/Orders/Order/Ship/Tracking	0 or 1	25				Can be blank or valid tracking number
RESPONSE/Orders/Order/Ship/ShipCost	0 or 1					Can be blank or 0 or valid cost of shipping.
RESPONSE/Orders/Order/Ship/ShipCarrierName	1	15				Shipping Carrier Name e.g. USPS, UPS, Fedex
RESPONSE/Orders/Order/Ship/ShipMethod	1	15				Shipping Method used in order.
RESPONSE/Orders/Order/Ship/FirstName	1	45				
RESPONSE/Orders/Order/Ship/LastName	1	45				
RESPONSE/Orders/Order/Ship/MiddleName	0 or 1	25				
RESPONSE/Orders/Order/Ship	0 OR 1	75				

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/CompanyName						
RESPONSE/Orders/Order/Ship/Address1	1	75				Address Line 1
RESPONSE/Orders/Order/Ship/Address2	0 or 1	75				Address Line 2
RESPONSE/Orders/Order/Ship/City	1	75				City
RESPONSE/Orders/Order/Ship/State	1	75				State
RESPONSE/Orders/Order/Ship/Zip	1	75				Zip
RESPONSE/Orders/Order/Ship/Country	1	75				Country
RESPONSE/Orders/Order/Ship/Email	1	150				Email
RESPONSE/Orders/Order/Ship/Phone	1	15				Phone
RESPONSE/ Orders/Order Items	1					Parent block containing Items in Order
RESPONSE/ Orders/Order /Items/Item	1 or more					Parent block containing an Item
RESPONSE/Items/Item/ItemCode	1	25				Item Code for the item in Order. Usually this will be the Product number or the SKU
RESPONSE/Items/Item/ItemDescription	1	75				Item Description
RESPONSE/Items/Item/Quantity	1					Number of items in order
RESPONSE/Items/Item/UnitPrice	1					Unit Price of the item
RESPONSE/Items/Item/UnitCost	0 or 1					Optional Unit Cost of item. Used to create new item in QuickBooks
RESPONSE/Items/Item/Vendor	0 or 1					Optional Vendor name supplying the item. Used to create item in QuickBooks and create PO in QuickBooks
RESPONSE/Items/Item/ItemTotal	1					Total Amount for the item
RESPONSE/Items/Item/ItemUnitWeight	0 or 1					Optional unit weight for the item
RESPONSE/Items/Item/CustomField1	1	55				Item Custom field 1
RESPONSE/Items/Item/CustomField2	1	55				Item Custom field 2
RESPONSE/Items/Item/CustomField3	1	55				Item Custom field 3
RESPONSE/Items/Item/CustomField4	1	55				Item Custom field 4
RESPONSE/Items/Item/CustomField5	1	55				Item Custom field 5
RESPONSE/Items/Item/ItemOptions	0 or 1					Parent block for Item Options
RESPONSE/Items/Item/ItemOptions/ItemOption	1 or more			Name and Value		Contains option specific to this item in the form of a Name/Value pair. E.g. <Option Name="color" Value="red" />
RESPONSE/Orders/Order/Charges	1					Parent block containing Order charges

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RESPONSE/Orders/Order/Charges/Shipping	1					Shipping charges
RESPONSE/Orders/Order/Charges/Handling	1					Handling Charges
RESPONSE/Orders/Order/Charges/Tax	1			Name = Name of Tax charged		Tax Charge Attribute Name is Optional. If Name provided then the charge will be recorded with this Sales Tax Item name in QuickBooks [or Tax Location in QuickBooks POS]
RESPONSE/Orders/Order/Charges/TaxOther	0 or 1					(Optional) Other taxes. For Canada this will be PST and Tax field will be GST.
RESPONSE/Orders/Order/Charges/Fee	1					*** DEPRECATED *** Merchant/Commission Fee. This is the total Fee amount charged on the transaction
RESPONSE/Orders/Order/Charges/ChannelFee	0 or 1					Fee charged by shopping channels such as Ebay, Amazon
RESPONSE/Orders/Order/Charges/PaymentFee	0 or 1					Fee charged by payment processors such as PayPal
RESPONSE/Orders/Order/Charges/FeeDetails	0 or 1					*** NOT USED CURRENTLY *** Parent block containing individual fee components. This is Optional, only applicable in the case of multiple fee on transaction. E.g. EBay charges different fee on a transaction.
RESPONSE/Orders/Order/Charges//FeeDetails/FeeDetail	1 or more					Parent block containing a fee component
RESPONSE/Orders/Order/Charges/FeeDetails/FeeDetail/FeeName	1					Name of the Fee
RESPONSE/Orders/Order/Charges//FeeDetails/FeeDetail/FeeValue	1					Fee amount
RESPONSE/Orders/Order/Charges/Discount	1					Discount if any. This is a credit to the order total.
RESPONSE/Orders/Order/Charges/GiftCertificate	1			Code=		Gift certificate if any. This is a credit to the order total. Attribute Code is optional. If you send the attribute , Code="123456" in response, this will be recorded in QB as item description. Gift Certificate is a form of payment for the order. So in an order is for \$100, it can be paid with \$90 on credit card

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						and \$10 with Gift certificate. This gets mapped to a payment type item in QuickBooks financial and a GiftCert payment in QuickBooks POS.
RESPONSE/Orders/Order/Charges/OtherCharge	0 or 1			Name = Name of description of the charge		Any other charge added to the order. Attribute Name is Optional. If Name provided then the charge will be recorded with this Item name in QuickBooks [Item#/ALU/UPC in QuickBooks POS]
RESPONSE/Orders/Order/Charges/ItemSubTotal	0 or 1					Optional : Item Sub total amount
RESPONSE/Orders/Order/Charges/Total	1					Order total charge = Item Sub total + Shipping charge + Handling Charge + Tax – Discount If Order total does not match the item totals then a balance line item entry is created by T-HUB as Other Charge or Discount.
RESPONSE/Orders/Order/Charges/Coupons	0 or 1					Parent block containing discount coupons used in order
RESPONSE/Orders/Order/Charges/Coupons/Coupon	1					Parent block for a coupon
RESPONSE/Orders/Order/Charges/Coupons/CouponCode	1					Coupon code
RESPONSE/Orders/Order/Charges/Coupons/CouponID	1					ID for the coupon
RESPONSE/Orders/Order/Charges/Coupons/CouponDescription	1					Coupon description
RESPONSE/Orders/Order/Charges/Coupons/CouponValue	1					Value of the coupon
RESPONSE/Orders/Order/CustomField1	1	55				Order Custom field 1
RESPONSE/Orders/Order/CustomField2	1	55				Order Custom field 2
RESPONSE/Orders/Order/CustomField3	1	55				Order Custom field 3
RESPONSE/Orders/Order/CustomField4	1	55				Order Custom field 4
RESPONSE/Orders/Order/CustomField5	1	55				Order Custom field 5

Sample response XML for getOrders call is shown below

```
<?xml version="1.0" encoding="ISO-8859-1"?>
```

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```
<RESPONSE Version="2.8">
  <Envelope>
    <Command>GetOrders</Command>
    <StatusCode>0</StatusCode>
    <StatusMessage>All Ok</StatusMessage>
    <Provider>GENERIC</Provider>
  </Envelope>
  <Orders>
    <Order>
      <OrderID>34088</OrderID>
      <ProviderOrderRef>yst-9976</ProviderOrderRef>
      <Date>2010-03-05</Date>
      <Time>11:22:33</Time>
      <TimeZone>PST</TimeZone>
      <UpdatedOn>2010-02-21 18:13:40</UpdatedOn>
      <StoreID>133</StoreID>
      <StoreName>My Store</StoreName>
      <CustomerID>14467</CustomerID>
      <CustomerType>Online</CustomerType>
      <SalesRep>JON</SalesRep>
      <Comment>Please send this order in QuickBooks</Comment>
      <MerchantNotes>Put on expedited shipping as promised on phone</MerchantNotes>
      <Currency>USD</Currency>
      <Bill>
        <PayMethod>CreditCard</PayMethod>
        <PayStatus>Pending</PayStatus>
        <PayDate>2010-03-07</PayDate>
        <FirstName>John</FirstName>
        <LastName>Doe</LastName>
        <MiddleName>Smith</MiddleName>
        <CompanyName>ACE Hardware</CompanyName>
        <Address1>Suite B160-424</Address1>
        <Address2>22431 Antonio Parkway,</Address2>
        <City>Rancho Santa Margarita</City>
        <State>CA</State>
        <Zip>92688</Zip>
        <Country>USA</Country>
        <Email>me@somewhere.com</Email>
        <Phone>912-222-1111</Phone>
        <PONumber>PO123456</PONumber>
        <PaymentAmount>530.00</PaymentAmount>
        <CreditCard>
          <CreditCardType>VISA</CreditCardType>
          <CreditCardCharge>530.00</CreditCardCharge>
          <ExpirationDate>11/2008</ExpirationDate>
          <CreditCardName>John Smith Doe</CreditCardName>
          <CreditCardNumber>XXXXXXXXXXXX3445</CreditCardNumber>
          <CVV2>345</CVV2>
          <AuthDetails>AuthCode=Q31234;TransId=4423412312;AVSCode=P</AuthDetails>
          <TransactionID>4423412312232312</TransactionID>
          <SettlementBatchID>3330115015</SettlementBatchID>
          <ReconciliationData>1223212323</ReconciliationData>
        </CreditCard>
      </Bill>
      <Ship>
        <ShipStatus>New/Shipped</ShipStatus>
        <ShipDate>2009-09-15</ShipDate>
      </Ship>
    </Order>
  </Orders>
</RESPONSE>
```

```
<Tracking>1Z1231231233231</Tracking>
<ShipCost>3.45</ShipCost>
<ShipCarrierName>Fedex</ShipCarrierName >
<ShipMethod>Ground Shipping</ShipMethod>
<FirstName>John</FirstName>
<LastName>Doe</LastName>
<MiddleName>Smith</MiddleName>
<CompanyName>ACE Hardware</CompanyName>
<Address1> Suite B160-424</Address1>
<Address2>22431 Antonio Parkway,</Address2>
<City> Rancho Santa Margarita </City>
<State>CA</State>
<Zip>92688</Zip>
<Country>USA</Country>
<Email>me@somewhere.com</Email>
<Phone>912-222-1111</Phone>
</Ship>
<Items>
  <Item>
    <ItemCode>SKU1001</ItemCode>
    <ItemDescription>Leather Jacket</ItemDescription>
    <Quantity>1</Quantity>
    <UnitPrice>300.00</UnitPrice>
    <UnitCost>102.00</UnitCost>
    <Vendor>ACEShoes.com</Vendor>
    <ItemTotal>300.00</ItemTotal>
    <ItemUnitWeight>2.5</ItemUnitWeight>
    <Length>2.5</Length>
    <Depth>2.5</Depth>
    <Height>2.5</Height>
    <CustomField1/>
    <CustomField2/>
    <CustomField3/>
    <CustomField4/>
    <CustomField5/>
    <ItemOptions>
      <ItemOption Name="Color" Value="Black"/>
    </ItemOptions>
  </Item>
  <Item>
    <ItemCode>SKU8976</ItemCode>
    <ItemDescription>Leather Shoes</ItemDescription>
    <Quantity>1</Quantity>
    <UnitPrice>200.00</UnitPrice>
    <UnitCost>102.00</UnitCost>
    <Vendor>ACEShoes.com</Vendor>
    <ItemTotal>200.00</ItemTotal>
    <ItemUnitWeight>1</ItemUnitWeight>
    <CustomField1/>
    <CustomField2/>
    <CustomField3/>
    <CustomField4/>
    <CustomField5/>
    <ItemOptions>
      <ItemOption Name="Color" Value="Brown"/>
    </ItemOptions>
  </Item>
</Items>
```

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```
</Items>
<Charges>
  <Shipping>50.00</Shipping>
  <Handling>0.00</Handling>
  <Tax Name="Sales Tax">10</Tax>
  <TaxOther>0</TaxOther>
  <ChannelFee>0.7</ChannelFee>
  <PaymentFee>0.3</PaymentFee>
  <FeeDetails>
    <FeeDetail>
      <FeeName>Final Value Fee</FeeName>
      <FeeValue>0.7</FeeName>
    </FeeDetail>
    <FeeDetail>
      <FeeName>PayPal Fee</FeeName>
      <FeeValue>0.3</FeeName>
    </FeeDetail>
  </FeeDetails>
  <Discount>20.00</Discount>
  <GiftCertificate Code="12345678">10.00</GiftCertificate>
  <OtherCharge Name="Gift Wrapping">1.00</OtherCharge>
  <Total>541.00</Total>
  <Coupons>
    <Coupon>
      <CouponCode>MOTHERS DAY</CouponCode>
      <CouponID>000232</CouponID>
      <CouponDescription>MOTHERS DAY DISCOUNT </CouponDescription>
      <CouponValue>20.00</CouponValue>
    </Coupon>
  </Coupons>
</Charges>
<CustomField1/>
<CustomField2/>
<CustomField3/>
<CustomField4/>
<CustomField5/>
</Order>
</Orders>
</RESPONSE>
```

updateOrdersShippingStatus Service

updateOrdersShippingStatus service updates the shipping status of orders in list and also updates tracking numbers.

The request and response XML's are described below.

updateOrdersShippingStatus Request

Element Name	Occurrence	Max Length	Value	Attributes	Attribute Values	Description
REQUEST	1			Version	1.0	The root element for the request XML
REQUEST/Command	1	35	UpdateOrdersShippingStatus			Command to update shipping status of orders on remote host system (online store)
REQUEST/UserID	1	75				Admin Login id for the store. The service should validate user/password in the request
REQUEST/Password	1	15				Same password used by store admin to manage the store
REQUEST/SecurityKey	0 or 1	75				Can be used by web service for additional security for the service (in addition to user ID and password)
REQUEST/Orders	1					Parent block containing Orders to be marked as Shipped.
REQUEST/Orders/Order	1 or more					Parent block containing an Order to be marked as processed.
REQUEST/Orders/Order/HostOrderID	1					OrderID in host system (Online store)
REQUEST/Orders/Order/LocalOrderID	1					OrderID in Accounting System (QuickBooks)
REQUEST/Orders/Order/NotifyCustomer	0 or 1					Optional: Yes/No, whether the shopping cart should notify customer
REQUEST/Orders/Order/ShippedOn	1					Shipped On MM/dd/YYYY (e.g. 12/05/2005)
REQUEST/Orders/Order/ShippedVia	1					Shipped Via (e.g. UPS, FEDEX, USPS etc.)
REQUEST/Orders/Order/ServiceUsed	0 or 1					Optional: Ground, Next day air etc.
REQUEST/Orders/Order/TrackingNumber	1					Tracking number of Shipment (e.g. Z124534545345) Multiple tracking numbers will be separated by comma

Sample request XML for updateOrders call is shown below

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```
<?xml version="1.0" encoding="ISO-8859-1"?>
<REQUEST Version="2.8">
  <Command>UpdateOrdersShippingStatus</Command>
  <UserID>MyLoginID</UserID>
  <Password>MyPassword</Password>
  <SecurityKey>xyz</SecurityKey>
  <Orders>
    <Order>
      <HostOrderID>34088</HostOrderID>
      <LocalOrderID>4122</LocalOrderID>
      <NotifyCustomer>Yes</NotifyCustomer>
      <ShippedOn>12/05/2005</ShippedOn>
      <ShippedVia>UPS</ShippedVia>
      <ServiceUsed>Ground</ServiceUsed>
      <TrackingNumber>Z3121231213243455</TrackingNumber>
    </Order>
    <Order>
      <HostOrderID>34089</HostOrderID>
      <LocalOrderID>4123</LocalOrderID>
      <NotifyCustomer>No</NotifyCustomer>
      <ShippedOn>12/04/2005</ShippedOn>
      <ShippedVia>FEDEX</ShippedVia>
      <ServiceUsed>2nd Day Air</ServiceUsed>
      <TrackingNumber>F334523234234555</TrackingNumber>
    </Order>
  </Orders>
</REQUEST>
```


updateOrdersShippingStatus Response

Element Name	Occurrence	Max Length	Value	Attributes	Attribute Values	Description
RESPONSE	1			Version	1.0	The root element for the response XML
RESPONSE/Envelope	1					Contains header information for the orders response xml.
RESPONSE/Envelope/Command	1	35	Update Orders ShippingStatus			
RESPONSE/Envelope/StatusCode	1	6				0 → All OK 1000 → No Orders returned 9000 → Login failed 9999 → Other Error
RESPONSE/Envelope/StatusMessage	1	150				Descriptive message for any error condition.
RESPONSE/Orders	0 or 1					Parent block containing orders returned.
RESPONSE/Orders/Order	1 or more					Parent block containing an order.
RESPONSE/Orders/Order/HostOrderID	1					OrderID in host system (Online store)
RESPONSE/Orders/Order/LocalOrderID	1					OrderID in Local OrderProcessing System
RESPONSE/Orders/Order/HostStatus	1					Update Status of order in host system (Online store) <ul style="list-style-type: none"> • Success • Failed

Sample response XML for updateOrders call is shown below

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<RESPONSE Version="2.8">
  <Envelope>
    <Command>UpdateOrdersShippingStatus</Command>
    <StatusCode>0</StatusCode>
    <StatusMessage>All Ok</StatusMessage>
  </Envelope>
  <Orders>
    <Order>
      <HostOrderID>34088</HostOrderID>
      <LocalOrderID>4122</LocalOrderID>
      <HostStatus>Success</HostStatus>
    </Order>
    <Order>
      <HostOrderID>34089</HostOrderID>
      <LocalOrderID>4123</LocalOrderID>
      <HostStatus>Success</HostStatus>
    </Order>
  </Orders>
</RESPONSE>
```

Inventory Update Service

updateInventory service updates the online inventory. Using this service the online item inventory can be in sync with QuickBooks item inventory. Online store providers need to implement this service to allow T-HUB client to update inventory information from QuickBooks to online store database.

T-HUB client application manages incremental synchronization with QuickBooks and also breaks the inventory synchronization message in a number of smaller messages for better bandwidth utilization.

This service performs the function to transmit inventory quantity from local QuickBooks database to Online website.

This service will also add products to website if the flag AddProducts = 1

The request and response XML's are described below.

updateInventory Request

Element Name	Occurrence	Max Length	Value	Attributes	Attribute Values	Description
REQUEST	1			Version	2.6	The root element for the request XML
REQUEST/Command	1	15	UpdateInventory			Command to update inventory on remote host system (online store)
REQUEST/UserID	1	75				Admin Login id for the store. The service should validate user/password in the request
REQUEST/Password	1	15				Same password used by store admin to manage the store
REQUEST/SecurityKey	0 or 1	75				Can be used by web service for additional security for the service (in addition to user ID and password)
REQUEST/AddProducts	0 or 1					0 or 1 If 1 then add product on website. If 1 then all other update flags to be ignored. For inventory update, this value should be 0 or empty
REQUEST/AddCategory	0 or 1					If 1 then category will be added to website if not already present. This is Optional
REQUEST/AddManufacturer	0 or 1					If 1 then Manufacturer will be added to website if not already present. This is Optional

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REQUEST/UpdateDescription	1					*** FOR FUTURE USE *** 0 or 1 If 1 then update item description on website.
REQUEST/UpdatePrice	1					0 or 1 If 1 then update item price on website
REQUEST/OnlinePriceFieldToUpdate						Optional field used for some shopping carts only. This is to tell the cart which price field to update. Designed for custom integrations.
REQUEST/UpdateInventory	1					If 1 then update item inventory on website. The value 0 is only for testing purposes.
REQUEST/Items	1		Parent block containing Items to be updated online.			
REQUEST/Items/Item	1 or more					Parent block containing an item to be updated.
REQUEST/Items/Item/ItemCode	1					Unique Item code – this is Item name from QuickBooks and should match the unique item code in the online database.
REQUEST/Items/Item/ItemCodeParent	0 or 1					Parent item code. If Shopping cart does not have unique ItemCode for each product option combination. Matching can be done on this code along with option names <OptionName> This code is not needed if item is matched by unique ItemCode. A product that comes in many size and color combination, will have unique ItemCode for each size and color combination.
REQUEST/Items/Item/ManufacturerPartNumber	0 or 1					Optional manufacturer PartNumber. Used only to send Manufacturer Part number from QuickBooks Accounting to website for creating new products on website. Supported on few shopping carts
REQUEST/Items/Item/Manufacturer	0 or 1					Optional manufacturer Name. Used only for creating new products on website
REQUEST/Items/Item/Category	0 or 1					Optional Category Name. Used only for creating new products on website. Separate multilevel categories with / character. E.g. Clothing/Boys
REQUEST/Items/Item/ItemName	0 or 1					Item Name to be used in AddProducts
REQUEST/Items/Item/ItemDescription	0 or 1					Item description to be

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m/ItemDescription						used in AddProducts
REQUEST/Items/Item/Price	0 or 1					Item Price
REQUEST/Items/Item/SalePrice	0 or 1					Optional Sale Price, if there is a lower sales price.
REQUEST/Items/Item/UnitWeight	0 or 1					Optional Unit weight in pounds.
REQUEST/Items/Item/QuantityInStock	0 or 1					Current in stock quantity in local QuickBooks system
REQUEST/Items/Item/ItemOption	0 or more					Optional. Option Name and value. E.g. <ItemOption Name="color">red</ItemOption>

Sample request XML for updateInventory call is shown below

```
<?xml version="1.0" encoding="UTF-8"?>
<REQUEST Version="2.8">
  <Command>UpdateInventory</Command>
  <UserID>MyLoginID</UserID>
  <Password>MyPassword</Password>
  <SecurityKey>xyz</SecurityKey>
  <AddProducts>0</AddProducts>
  <AddCategory>0</AddCategory>
  <AddManufacturer>0</AddManufacturer>
  <UpdateDescription>0</UpdateDescription>
  <UpdatePrice>1</UpdatePrice>
  <OnlinePriceFieldToUpdate>Cost</OnlinePriceFieldToUpdate>
  <UpdateInventory>1</UpdateInventory>
  <Items>
    <Item>
      <ItemCode>SKU10087</ItemCode>
      <ItemCodeParent>SKU10000</ItemCodeParent >
      <ItemName>No wrinkle shirt</ItemName>
      <ItemDescription>Spring time shirts, no wrinkles, easy wash</ItemDescription>
      <Manufacturer>Gap Inc.</Manufacturer>
      <Category>Clothing/Boys</Category>
      <Price>25.45</Price>
      <SalePrice>20.00</SalePrice>
      <UnitWeight>2</UnitWeight>
      <QuantityInStock>126</QuantityInStock>
      <ItemOption Name="color">red</ItemOption>
      <ItemOption Name="size">XL</ItemOption>
    </Item>
    <Item>
      <ItemCode>SKU7756</ItemCode >
      <ItemCodeParent>SKU10000</ItemCodeParent >
      <ItemName>No wrinkle shirt</ItemName>
      <ItemDescription>Spring time shirts, no wrinkles, easy wash</ItemDescription>
      <Manufacturer>Gap Inc.</Manufacturer>
      <Category>Clothing/Boys</Category>
      <Price>25.45</Price>
      <SalePrice>20.00</SalePrice>
      <UnitWeight>2</UnitWeight>
      <QuantityInStock>19</QuantityInStock>
    </Item>
  </Items>
</REQUEST>
```

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```

        <ItemOption Name="color">white</ItemOption>
        <ItemOption Name="size">small</ItemOption>
    </Item>
</Items>
</REQUEST>

```

updateInventory Response

Element Name	Occurrence	Max Length	Value	Attributes	Attribute Values	Description
RESPONSE	1			Version	1.0	The root element for the response XML
RESPONSE/Envelope	1					Contains header information for the orders response xml.
RESPONSE/Envelope/Command	1	15	Update Inventory			Command to update inventory
RESPONSE/Envelope/StatusCode	1	6				0 → All OK 9000 → Login failed 9999 → Other Error
RESPONSE/Envelope/StatusMessage	1	150				Descriptive message for any error condition.
RESPONSE/Envelope/Provider	1	25				Name of the online store provider. Use the value GENERIC unless another value provided by Atandra
RESPONSE/Items	1					Parent block containing Items to be updated online.
RESPONSE/Items/Item	1 or more					Parent block containing an item to be updated.
RESPONSE/Items/Item/Item Code	1					Unique Item code – This is item code for the product on website – usually this will be the product SKU. If the website has product Options/Variants [e.g. different size, color etc. then each product variant combination MUST have it own unique Code.] If it does not have unique item codes then use the ItemCodeParent in request and Option names to match inventory items.
REQUEST/Items/Item/InventoryUpdateStatus	1					0 → All OK. Stock inserted or updated successfully in DB 1 → Product not found in database. Product model did not match. Inventory did not update
REQUEST/Items/Item/QuantityInStockWEB	0 or 1					Stock quantity last updated on website. Just return the value that got updated. This is Optional and is not required to be returned.
REQUEST/Items/Item/InventoryUpdateStatusMsg	0 or 1					Return Item specific descriptive message if something fails. This is optional field and applicable only when InventoryUpdateStatus value is 1 (failed)

Sample response XML for updateInventory call is shown below

```

<?xml version="1.0" encoding="UTF-8"?>
<RESPONSE Version="2.8">
  <Envelope>
    <Command>UpdateInventory</Command>
    <StatusCode>0</StatusCode>
    <StatusMessage>All Ok</StatusMessage>
  </Envelope>
</RESPONSE>

```

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```
<Provider>GENERIC</Provider>
</Envelope>
<Items>
  <Item>
    <ItemCode>SKU10087</ItemCode >
    <InventoryUpdateStatus>0</InventoryUpdateStatus>
    <QuantityInStockWEB>125</QuantityInStockWEB>
  </Item>
  <Item>
    <ItemCode>SKU7756</ItemCode >
    <InventoryUpdateStatus>0</InventoryUpdateStatus>
    <QuantityInStockWEB>19</QuantityInStockWEB>
  </Item>
  <Item>
    <ItemCode>SKU999999</ItemCode >
    <InventoryUpdateStatus>1</InventoryUpdateStatus>
    <InventoryUpdateStatusMsg>Could not add product missing
description</InventoryUpdateStatusMsg>
  </Item>
</Items>
</RESPONSE>
```

Revision history:

3.3 to 3.4 [2008-07-09]

1. CustomerID field added to getOrders Response
2. TransactionType field added to getOrders Response
3. OrigOrderID field added to getOrders response

3.4 to 3.5 [2009-08-14]

1. UnitCost field added to getOrders Response
2. Vendor field added to getOrders Response

3.5 to 3.6 [2009-09-22]

1. ShipStatus field added to getOrders Response
2. ShipDate field added to getOrders Response
3. Tracking field added to getOrders Response
4. ShipCost field added to getOrders Response
5. ManufacturerPartNumber added to UpdateInventory Request

3.6 to 3.61 [2009-10-05]

1. CustomerType field added to getOrders Response

3.61 to 3.7 [2010-02-23]

1. MerchantNotes field added to getOrders Response
2. PayDate field added to getOrders Response

3.7 to 3.8 [2010-04-19]

1. DownloadStartDate field added to getOrders Request
2. UpdatedOn field added to getOrders Response

3.8 to 3.9 [2010-07-21]

1. Fee field deprecated in getOrders Response
2. ChannelFee field added to getOrders Response
3. PaymentFee field added to getOrders Response
4. ItemSubTotal field added to getOrders Response

3.9 to 4.0 [2011-02-03]

1. SettlementBatchID added for GetOrders Response

4.0 To 4.1 [2012-02-24]

1. Added PaymentAmount field under <Bill> for GetOrders Response

4.1 To 4.2 [2012-03-27]

1. Add field InventoryUpdateStatusMsg under <Item> for UpdateInventoryResponse Response

4.2 To 4.3 [2012-06-01]

1. Add field OnlinePriceFieldToUpdate under <Item> for UpdateInventoryRequest