# Vubiz Ecommerce Web Service

### [This service handles Individual Sales and Group Sales (in yellow). If this service is only used for Individual Sales ignore the yellow references]

Last updated: Jan 30, 2018

* This service was developed around 2010 and has been refined from time to time.
* It uses the traditional Microsoft Web Serviced (.ASMX – web service which is XML / SOAP based).
* Can be accessed either live or on our staging server:
  + <https://vubiz.com/webservice/vuecommerce.asmx> (live)
  + [https://stagingweb.vubiz.com/webservice/vuecommerce.asmx](https://stagingweb.vubiz.com/webservice/vuecommerce.asmx%20) (staging)
* Note SSL is not mandatory but recommended.
* Can post ecommerce sales for two major types of customers:
  + Individual Sale - this customer stays within the client’s main account;
  + Group Sale - this customer becomes the “facilitator” of a new child account where they would add in learners and assign them seats from the bundle purchased;
* Sales Transactions can be of two actions:
  + **V**alidate: this is typically used on the first “pass” to ensure all data and math is proper, if so a success value is return. This pass is optional.
  + **C**ommit: this is where the transaction will process the transaction and update all the appropriate databases.
* Error Handling:
  + After each posting a return code plus description will be returned, with some extra key data fields depending on the transaction type.
  + Success is return code **200**, all others are in the **400** family and will define errors such as a missing field, incorrect extension of a transaction, etc.
* Data:
  + Can post the bare minimum number of fields or a complete set of fields that defines the purchaser - should you have unique fields not provided in the Web Service, you can post multiple values into what is called the Memo field. These will be stored in our database separated by pipes. An example is an accounting or order value that is unique.
* Credentials:
  + There are two ways to use the WS regarding credentials. One is where you ALWAYS send the credentials with the purchaser, ie that person is a member of your organization and you will pass us their unique identifier – in this case **we set your master account to “Auto-Enroll**” meaning when we get a new purchaser with credentials then we freely add them to the system.
  + The second way is whereby you prefer our service to assign credentials (ie Passwords). This way **we do** **NOT set your account to “Auto-Enroll”** and when we receive a Password we do not have on file, we return an error.
* Order ID: *(added Aug 2018)*
  + Using OrderId at either the Header level or the Line Item Level is optional, however if you do you an OrderId at the Header level then it must be unique.
  + If you post a transaction with an OrderId that is already on file (ie from a previous post) then the transaction will return an error message 453 (see details at end of this document)

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## Fields Accepted (anything else sent is ignored)

### Memo/Free Values

OrderDate

UserID

CompanyID

Memo

### Transaction/Header Values

***OrderID added Jun 2018 (optional client header ID)***

UserPassword

GroupCustomerID

GroupPassword

UserFirstName

UserLastName

UserEmail

Language

Currency

Organization

CustomerID

TransactionType

Action

vEcom\_Source

## Line Item Values

ProgramID  
***OrderID added Apr 2018 (optional client line ID)***

Seats

UnitPrice

ExtendedPrice

GSTAmount

PSTAmount

HSTAmount

LineTotal

### Item Total values

SeatsTotal

ExtendedTotal

GSTTotal

HSTTotal

PSTTotal

OrderTotal

### Credit Card values

CardHolderName

CardHolderAddress

CardHolderCity

CardHolderPostalCode

CardHolderProvince

CardHolderCountry

CardHolderPhone

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## Rules

* CustomerID
  + assigned by VUBZ
* Action:
  + V: validate (does NOT affect database)
  + C: commit (posts data to database)
* TransactionType:
  + I: Individual sale
  + G: Group sale, create a new Child Account
  + A: AddOn programs to an existing Group Sale
* GroupCustomerId and GroupPassword
  + For an AddOn only, you MUST send the assigned GroupCustomerID (ie IAPS5432) and the facilitator that is handling this account. It could be the UserPassword originally used or one that was assigned by the system.
* Invoice Math
  + The math for all ordered items must compute. Ie the taxes, totals, etc. must be valid or an error will be returned.
* Reversing/Negating an Order ***(added May 2018)***
  + You can reverse all or part of a transaction by resending it with negative quantity values

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## The Simulator

Internally, Vubiz tests features of the web service by using a Simulator. There are two simulator functions but you will only want to use the first – Direct mode. This is where you enter a simulated sale of two programs. You can simply validate your work to see if it gets through. Then you can “Commit” your transaction so see how the databases are populated (using the various platform reports).

There is a second test (Indirect). This is for Vubiz personnel to check XML that was sent and get a detailed analysis of the result.

<http://stagingweb.vubiz.com/simulator>

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## Return Codes

While there are many, many return codes for errors, all should be fairly intuitive. Essentially the return codes are “200 ….” if successful and “4XX …” if not. A “ResponseGUID” is also returned – this is a key to the Vubiz Logs so if there are problems, it would be prudent to inform Vubiz of the issue including the GUID.

Here are examples of successful return codes:

**Sample Validate for individual purchase WITH a password** (note Expiry Date is a dummy value)

200 Transaction Validated

"Expiry Date","Jan 01, 2000"

"ResponseGUID","{85A88792-DE1B-4178-B414-5DFC87761E14}"

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**Sample Commit for individual purchase WITH a password**

200 Successfully Posted

"Expiry Date","Sep 20, 2016"

"ResponseGUID","{16BDF007-F77F-4D1F-91E3-9003B2546AF4}"

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**Sample Validate for group purchase with password** (note Account ID, Password and Expiry Date are dummy values)

200 Transaction Validated

"Account Id","XXXX0000"

"Password","Password"

"Expiry Date","Jan 01, 2000"

"ResponseGUID","{3B6FEC37-2037-408F-AB83-5A1E7CC42431}"

------------------------------------------------------------

**Sample Commit for group purchase with password**

200 Successfully Posted

"Account Id","ECOM9058"

"Password","JOE.BLOW@SOMECOMPANY.COM"

"Expiry Date","Sep 20, 2016"

"ResponseGUID","{F1D99E1E-DA6C-46CA-AA51-DE0E290580FD}"

------------------------------------------------------------

**Sample Validate for group Add-on with password**

200 Successfully Posted

"Account Id","ECOM9059"

"Password","JOE.BLOW@SOMECOMPANY.COM"

"Expiry Date","Sep 20, 2016"

"ResponseGUID","{129A8921-C7AC-4A28-81C1-8730841197FF}"

------------------------------------------------------------

**Sample Commit for group Add-on with password**

200 Successfully Posted

"Expiry Date","Sep 20, 2016"

"ResponseGUID","{F0401DCB-2248-445F-9DF2-2284116815B1}"

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## Error Messages

A successful transaction will return one of two possible “200” messages, ie:

"200 Successfully Posted"

"200 Transaction Validated"

Errors are more complex and are all in the “400” family. This is a (**programmatic**) listing which might help determine the range of error options:

430 The New and Old Passwords are the same.

431 The Account Id is not valid.

432 The New Password already exists.

433 The Old Password does NOT exist.

434 The Old Password must be an Active Learner or Facilitator.

435 The New Password is not valid.

436 The Old Password is not valid.

443 Missing Action parameter, requires V (validate), C (commit).

444 The service did not receive any form POST values to process.

467 No Programs have been selected.

450 Missing " + parm1 + ".

451 Invalid " + parm1 + ".

452 CustomerID " + parm1 + " is not a Parent account.

453 OrderId '" + parm1 + "' has already been posted (Account Id: " + parm2 + ", Password: " + parm3 + "). ***(Added Aug 2018)***

469 Service was accessed with an incorrect Transaction Type.

470 You are trying to Add On to a Group site that does not exist.

445 You are trying to Add On to a Parent site rather than a Group site.

446 You are trying to Add On to a Group site that has not been purchased.

471 You are trying to Add On to a Group site with a password that does not exist.

472 You are trying to Add On to a Group site with a password that is not assigned to a facilitator.

474 Line item is not extended properly.

473 Line item " + parm1 + " contained a invalid Program Id (" + parm2 + ").

466 Line item " + parm1 + " contained a Program Id (" + parm2 + ") that is not in the current catalogue.

477 Line item " + parm1 + " must have a quantity of 1.

478 Line item " + parm1 + " is not extended properly.

479 Line item " + parm1 + " is not totalled properly.

480 Line item " + parm1 + " in line item " + parm2 + " is not in the catalogue.

481 Quantities are not totalled properly.

482 GST is not totalled properly.

483 PST is not totalled properly.

484 HST is not totalled properly.

485 Extensions are not totalled properly.

490 Application Error (" + parm1 + parm2 + ") - Contact Systems.

497 Unable to Generate Group Account (full) - Contact Systems.

498 Unable to Generate Group Account (" + parm1 + " used) - Contact Systems.

499 Group Services are temporarily suspended.

490 Unrecognized Error Number

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## Sample XML

<?xml version="1.0" encoding="UTF-16"?>

<SalesTransaction Organization="...optional" TransactionGroup="...optional" Language="EN-CA" Currency="CAD" Memo="...optional" CustomerID="ABCD1234" TransactionType="I" UserPassword="joeblow@gmail.com" UserEmail="joeblow@gmail.com" UserLastName="Blow" UserFirstName="Joe" OrderID="...optional" CompanyID="...optional" UserID="...optional" OrderDate="2018-02-23T14:15:43-05:00" Action="C" TransactionSource="...optional" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<CreditCardPayment CardHolderPhone="555 905 1212" CardHolderCountry="Canada" CardHolderProvince="ON" CardHolderPostalCode="L5N 1M5" CardHolderCity="Mississauga" CardHolderAddress="14 Some Rd" CardHolderName="Joe Blow"/>

<LineItemTotal OrderTotal="25" HSTTotal="0" PSTTotal="0" GSTTotal="0" ExtendedTotal="25" SeatsTotal="1"/>

<LineItem OrderID="optional" LineTotal="25" PSTAmount="0" HSTAmount="0" ExtendedPrice="25" GSTAmount="0" UnitPrice="25" Seats="1" ProgramID="P4657FR"/>

</SalesTransaction>