

Avalara AvaTax for Salesforce B2C Commerce QuickStart

Storefront Reference Architecture

System Integration Document for Avalara AvaTax

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1.0. Acronyms and Abbreviations

B2C Business to Consumer

SFRA Storefront Reference Architecture

UUID Universally Unique Identifiers

2.0. Connector Overview

The AvaTax Salesforce B2C Commerce cartridge provides rapid integration for Salesforce B2C Commerce implementations, helping to accelerate and simplify integration projects. This cartridge can be configured in the Business Manager and contains all the elements necessary to perform a successful implementation of AvaTax **Tax calculation** and **Address Validation** services.

3.0. AvaTax Settings

Sr. No.	Setting Name (Account Settings)	Descriptions		
1.	Tax Calculation	Enable AvaTax Tax Calculation on the transactions.		
2.	Address Validation	Enable Address Validation using AvaTax.		
3.	Save Transaction to AvaTax	Enable transactions to save to AvaTax.		
4.	Commit Transaction to AvaTax	Enable transactions to commit to AvaTax.		
5.	Company Code	The entered Company Code will be used to save the transactions in the company configured in the AvaTax.		
6.	Customer Code	 Customer Code sent to Avalara services can be customized in the AvaTax Settings section. For Guest users, Email ID provided during the checkout process is sent over. If the customer is authenticated, and the custom attribute preference value is available, then the attribute value from 'Profile' object is used. The order of preference used for Customer Code is: Custom field attribute provided in AvaTax Settings section for the Authenticated users and subject to the availability. Email ID provided during checkout for both Authenticated and Guest Users. Email ID from the User Account (authenticated users only). 		
7.	Shipping Tax Code	The default Tax Code is used when a shipping method has no tax class ID.		
Add	Address Details			
1.	Location Code	If the user has entered the Location Code which is configured in the AvaTax with a valid company address, then it is used for the Tax Calculation for all the transactions, as it consists the priority above all the other ShipFrom Address Details fields.		
2.	ShipFrom Address fields (Address Line 1, Address Line 2, Address Line 3, City, State, Zip/Postal Code, Country Code)	Enter the ShinErem address details		

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Sr. No.	Setting Name (Account Settings) Descriptions					
Test	Test Services					
Note	e: The Order number in Salesforce	B2C Commerce should be a valid document code in AvaTax.				
1.	Test Connection	It is used to validate the credentials configured in the Business Manager. Administration > Operations > Services				
2.	Void Transaction	It allows you to Void the transaction in AvaTax.				
3.	Commit Transaction	It allows you to Commit the transaction in AvaTax.				
4.	Address Validation	It allows you to Validate the Shipping Address of an Order.				
5.	Service Response	It displays the response returned by the AvaTax service.				

4.0. Reconcile Orders

The Reconcile Orders utility allows you to reconcile/update orders in the AvaTax where the Amount or Tax is mismatched, or the orders which are missing in the AvaTax.

Note: The orders which are missing in Salesforce B2C Commerce cannot be reconciled.

5.0. Object Mapping

Below fields/attributes from the address are mapped to the AvaTax field.

5.1. Address Validation

Sr. No.	Type of Salesforce B2C Commerce Object	Salesforce B2C Commerce Field	AvaTax Field
1.	String	address1	line1
2.	String	address2	line2
3.	String	address3	line3
4.	String	city	city
5.	String	stateCode	region
6.	String	countryCode / country	country
7.	String	postalCode	postalCode
8.	String	latitude	latitude
9.	String	longitude	longitude

5.2. Tax Calculation

Sr. No.	Type of Salesforce B2C Commerce Object	Salesforce B2C Commerce Field	AvaTax Field	Descriptions
1.	String	Basket > UUID	code	 After you place an order, the variable code gets assigned with the Order Number, and the docType gets assigned with the SalesInvoice.
2.	String	Settings > Company Code	companyCode	Specify the code of the company.
3.	String	Current date	date	Retrieved using JavaScript.
4.	String	Basket > Shipment > Email	customerCode	It sends the Account Id or Name as a Customer Code.
5.	dw.order.orderAddress	Basket > Shipment > shippingAddress	addresses.shipTo	Retrieved from the Storefront shipping page.
6.	dw.order.orderAddress	Settings > shipFrom values	addresses.shipFrom	 AvaTax for Salesforce B2C Commerce provides an AvaTax Configuration page where a user can enter the Origin Address.
7.	String	Shipment > Line Item > UUID	line.number	Represents line item in a transaction.
8.	Number	Line Item > Quantity	line.quantity	Quantity of items in this line.
9.	dw.value.Money	Line Item > Price	line.amount	AvaTax retrieves the value from the Basket object.
10.	dw.order.orderAddress	Settings > shipFrom values	line.addresses.shipFrom	The shipFrom address picked from the AvaTax Configuration page.
11.	dw.order.orderAddress	Basket > Shipment > shippingAddress	line.addresses.shipTo	The shipTo address is filled by the end user on the Storefront.
12.	String	Line Item > Tax class ID OR Setting > defaultShippingMethodTaxC ode	line.taxCode	Tax Code - System or Custom Tax Code.
13.	dworder.TaxMgr.taxation Policy	Site settings > Taxation policy	line.taxIncluded	It is a taxation policy of the current site. i.e. net/ gross
14.	String	Line Item > ID	line.itemCode	The Line Item ID is used as ItemCode.

Sr. No.	Type of Salesforce B2C Commerce Object	Salesforce B2C Commerce Field	AvaTax Field		Descriptions
15.	String	Line Item > Product > Description	line.description	•	AvaTax for Salesforce B2C Commerce passes the Product Description as a line description to the AvaTax for Tax Calculation.
17.	String	customer.profile.custom.taxl D	businessIdentificationNo	•	Enter the VAT Business Identification Number of the customer.
18.	String	basket.currencyCode	currencyCode	•	It displays the currency information. For example: Currency Code: USD
19.	String	basket.custom.ATInvoiceMe ssage	response.messages.detai ls[]	•	It displays the invoice messages received in the Avalara response when the order is in the checkout stage.
20.	String	order.custom.ATInvoiceMes sage	response.messages.detai ls[]	•	It displays the invoice messages received in the Avalara response when the order is placed.
21.	String	basket.custom.ATTaxDetail	response.line.details[]	•	It is used to store Tax Detail/ type in the Basket object when the order is in the checkout stage
22.	String	order.custom.ATTaxDetail	response.line.details[]	•	It is used to store Tax Detail/ type in the Order object when the order is placed.

6.0. Integration Points

Sr. No.	Integration Page	Address Validation	Tax Calculation
1.	My Account	Yes	No
2.	Shipping Page	Yes	Yes
3.	Billing Page	No	Yes

7.0. Workflow Diagrams

Address Validation

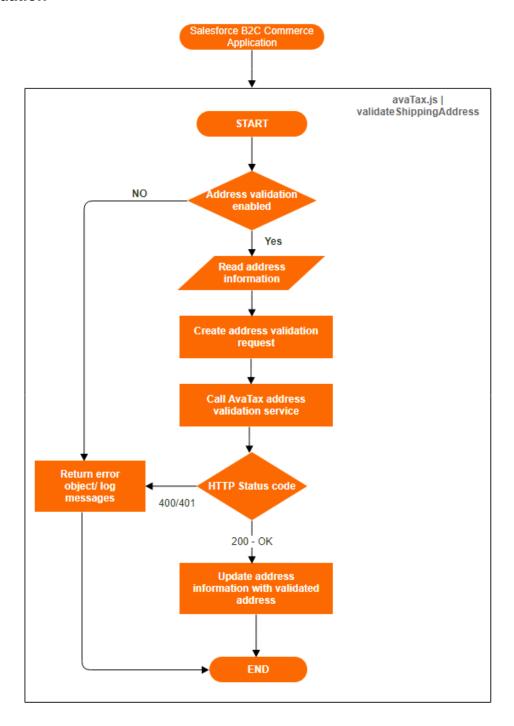


Figure 1: Address Validation

Tax Calculation

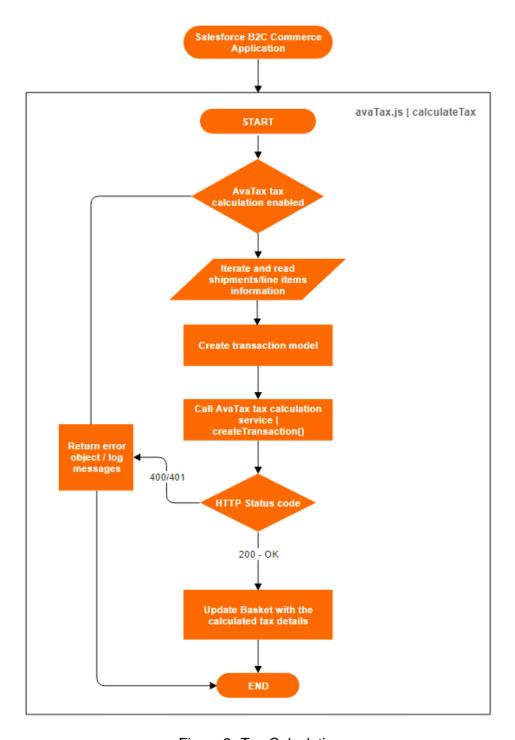


Figure 2: Tax Calculation