



Avalara AvaTax for AX 2012 R3 CU12 Retail

Code Change Document - EPOS customisations

Version 1.0

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Avalara, AvaTax, AvaTax Calc, AvaTax Returns, AvaTax Certs, AvaTax Local, AvaLocal, AvaTax POS,

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AvaTax Connector for AX-POS 2012 R3 Retail CU12 EPOS (AX 6.3.5000.138.03.00)

Prerequisite:

Destination folder should contain Microsoft.Dynamics.Retail.Pos.Contracts.dll with relevant version

Installation Steps:

Add reference of following two files in VS project:

- 1) **Avalara.Ax.RetailCU9.dll**
- 2) **Avalara.AvaTax.Adapter.dll**
- 3) **Code changes in shared projects**

AvaTax Changed the following list of Projects in existing Retail SDK projects

Project/Form Name	Methods	Code Changes
Tax.cproj	Project → Properties → Setting	<p>Set value of ProviderAssemblies as</p> <p>*</p> <p>Extension\Avalara.Ax.RetailCU9.dll</p> <p>Set value of ProviderClassNames as</p> <p>*</p> <p>Avalara.Ax.RetailCU9.AvaTaxProvider</p>
Tax.cproj	ProviderLoader.cs/GetProviderDefinitions	<p>Search for the following</p> <p>StringCollection assemblies = Microsoft.Dynamics.Retail.Pos.Tax.Properties.Settings.Default.ProviderAssemblies;</p> <p>StringCollection classes = Microsoft.Dynamics.Retail.Pos.Tax.Properties.Settings.Default.ProviderClassNames;</p> <p>and replace following line of codes</p> <p>StringCollection assemblies = Microsoft.Dynamics.Retail.Pos.TaxService.Properties.Settings.Default.ProviderAssemblies;</p> <p>StringCollection classes = Microsoft.Dynamics.Retail.Pos.TaxService.Properties.Settings.Default.ProviderClassNames;</p>
BlankOperations.cproj		<p>Please add the following reference to the project</p> <p>Avalara.AvaTax.Adapter.dll</p> <p>Avalara.Ax.RetailCU9.dll</p>

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<p>BlankOperations.cproj</p>	<p>BlankOperations.cs</p>	<p>Search for the following</p> <p>using Microsoft.Dynamics.Retail.Pos.Contracts.Services;</p> <p>Add the following lines after that.</p> <p style="color: red;">using System; using Avalara.Ax.RetailCU9.Util; using Avalara.Ax.RetailCU9.Diagnostics;</p>
<p>BlankOperations.cproj</p>	<p>BlankOperations.cs/ BlankOperations</p>	<p>Search for the following lines of code</p> <p>StringBuilder comment = new StringBuilder(128);</p> <p>comment.AppendFormat(ApplicationLocalizer.Language.Translate(50700), operationInfo.OperationId); comment.AppendLine();</p> <p>comment.AppendFormat(ApplicationLocalizer.Language.Translate(50701), operationInfo.Parameter); comment.AppendLine();</p> <p>comment.Append(ApplicationLocalizer.Language.Translate(50702));</p> <p style="padding-left: 40px;">using (LSRetailPosis.POSProcesses.frmMessage dialog = new LSRetailPosis.POSProcesses.frmMessage(comment.ToString(), MessageBoxButtons.OK, MessageBoxIcon.Error)) {</p> <p>LSRetailPosis.POSProcesses.POSFormsManager.ShowPOSForm(dialog);</p> <p> }</p> <p>And replace with the following lines of code</p> <p style="color: red;">if (operationInfo.OperationId == "9999") {</p> <p style="padding-left: 40px; color: red;">//LSRetailPosis.POSProcesses.WinControls.StringPad</p> <p style="padding-left: 40px; color: red;">switch (operationInfo.Parameter.ToUpper()) {</p> <p style="padding-left: 80px; color: red;">case "ECMS": //Sets exemption number, scope of this number will be limited for current transaction. using (LSRetailPosis.POSProcesses.frmInputNumpad inputDialog = new LSRetailPosis.POSProcesses.frmInputNumpad()) { inputDialog.EntryTypes = Contracts.UI.NumpadEntryTypes.None; inputDialog.MaxNumberOfDigits = 25; inputDialog.PromptText =</p>

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		<pre>ApplicationLocalizer.Language.Translate("Enter Exemption no:", -1); if (!string.IsNullOrEmpty(TaxSvcHelper.exemptionNumber)) { inputDialog.InputText = TaxSvcHelper.exemptionNumber; } LSRetailPosis.POSProcesses.POSFormsManager.ShowPOSForm(inputD ialog); if (inputDialog.DialogResult == DialogResult.OK) { if (inputDialog.InputText.Length > 25) //Client side validation for ECMS { //InternalApplication.Services.Dialog.ShowMessage(// "ExemptionNo lenght must be between 0 and 25 characters.", MessageBoxButtons.OK, // MessageBoxIcon.Error); using (LSRetailPosis.POSProcesses.frmMessage dialog = new LSRetailPosis.POSProcesses.frmMessage("ExemptionNo length must be between 0 and 25 characters.", MessageBoxButtons.OK, MessageBoxIcon.Error)) { LSRetailPosis.POSProcesses.POSFormsManager.ShowPOSForm(dialog) ; } } else { TaxSvcHelper.exemptionNumber = inputDialog.InputText; } } break; case "EUCODE": //Sets entity use code, scope of this number will be limited for current transaction. using (LSRetailPosis.POSProcesses.frmInputNumpad inputDialog = new LSRetailPosis.POSProcesses.frmInputNumpad()) { inputDialog.EntryTypes = Contracts.UI.NumpadEntryTypes.None; inputDialog.MaxNumberOfDigits = 40; inputDialog.PromptText = ApplicationLocalizer.Language.Translate("Enter Entity Use Code:", -2); if (!string.IsNullOrEmpty(TaxSvcHelper.entityUseCode)) {</pre>
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		<pre> inputDialog.InputText = TaxSvcHelper.entityUseCode; } LSRetailPosis.POSProcesses.POSFormsManager.ShowPOSForm(inputDialog); if (inputDialog.DialogResult == DialogResult.OK) { if (inputDialog.InputText.Length > 40) //Client side validation for Entity use code { //InternalApplication.Services.Dialog.ShowMessage(// "EntityUseCode length must be between 0 and 25 characters.", MessageBoxButtons.OK, // MessageBoxIcon.Error); using (LSRetailPosis.POSProcesses.frmMessage dialog = new LSRetailPosis.POSProcesses.frmMessage("EntityUseCode length must be between 0 and 25 characters.", MessageBoxButtons.OK, MessageBoxIcon.Error)) { LSRetailPosis.POSProcesses.POSFormsManager.ShowPOSForm(dialog) ; } } else { TaxSvcHelper.entityUseCode = inputDialog.InputText; } } break; case "DIAGNOSTICS": Diagnostics diagnostics = new Diagnostics(); diagnostics.ShowDialog(); break; default: break; } } else { StringBuilder comment = new StringBuilder(128); comment.AppendFormat(ApplicationLocalizer.Language.Translate(50700) , operationInfo.OperationId); comment.AppendLine(); comment.AppendFormat(ApplicationLocalizer.Language.Translate(50701) , operationInfo.Parameter); comment.AppendLine(); }</pre>
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		<pre> comment.Append(ApplicationLocalizer.Language.Translate(50702)); using (LSRetailPosis.POSProcesses.frmMessage dialog = new LSRetailPosis.POSProcesses.frmMessage(comment.ToString(), MessageBoxButtons.OK, MessageBoxIcon.Error)) { LSRetailPosis.POSProcesses.POSFormsManager.ShowPOSForm(dialog) ; } } </pre>
Customer.cproj		<p>Please add the following reference to the project</p> <p>Avalara.AvaTax.Adapter.dll Avalara.Ax.RetailCU9.dll</p>
Customer.cproj	frmNewCustomer.cs	<p>Please search for the following line</p> <p>using DM = Microsoft.Dynamics.Retail.Pos.DataManager;</p> <p>Add the following lines after that.</p> <pre> using System.Data; using System.Linq; using System.Data.SqlClient; using Avalara.AvaTax.Adapter.AddressService; using Avalara.Ax.RetailCU9; using Avalara.Ax.RetailCU9.Util; using LSRetailPosis.Transaction; using Microsoft.Dynamics.Retail.Pos.Contracts; using AvaAddress = Avalara.AvaTax.Adapter.AddressService.Address; using System.Collections.ObjectModel; using Avalara.AvaTax.Adapter.AddressService; using Avalara.Ax.RetailCU9; using Avalara.Ax.RetailCU9; using Avalara.Ax.RetailCU9.Util; </pre>
Customer.cproj	frmNewCustomer.cs/ SaveCustomer	<p>Please search for the following line</p> <p>Note : There could be multiple occurrence present in the function with the below string . Please consider the 1st occurrence.</p> <pre> IList<Int64> entityKeys = new List<Int64>(); </pre> <p>Add the following lines after that.</p> <pre> if (!Avalara.Ax.RetailCU9.POSDB.PosConfiguration.RetailDisableAddressVa lidation && TaxSvcHelper.countryListForValidation.Contains(Convert.ToString(this.ad dressViewModel.Address.Country))) { AddressSvcWrapper addressSvc = new </pre>

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		<pre>AddressSvcWrapper(); ValidateRequest validateRequest = new ValidateRequest(); validateRequest.Address = new AvaAddress(); validateRequest.Address.Line1 = this.addressViewModel.Address.StreetName; validateRequest.Address.City = this.addressViewModel.Address.City; validateRequest.Address.Region = this.addressViewModel.Address.State; validateRequest.Address.PostalCode = this.addressViewModel.Address.PostalCode; validateRequest.Address.Country = this.addressViewModel.Address.Country; ValidateResult validateResult = addressSvc.Validate(validateRequest); DialogResult ValidateAddressPrompt; if (validateResult.ResultCode == Avalara.AvaTax.Adapter.SeverityLevel.Success) { if (validateResult.Addresses.Count > 0) { string validateAddressMsg = string.Format("Address Validated by AVATAX{0}{1} {2} {3} {4} {5} {6} {7}", Environment.NewLine, validateResult.Addresses[0].Line1, validateResult.Addresses[0].City, validateResult.Addresses[0].Region, validateResult.Addresses[0].PostalCode, validateResult.Addresses[0].Country, Environment.NewLine, "DO you want to update?"); ValidateAddressPrompt = Pos.Customer.Customer.InternalApplication.Services.Dialog.ShowMessag e(validateAddressMsg, MessageBoxButtons. YesNo, MessageBoxIcon. Question); if (ValidateAddressPrompt == DialogResult.Yes) { this.addressViewModel.Address.StreetName = validateResult.Addresses[0].Line1; this.addressViewModel.Address.City = validateResult.Addresses[0].City; this.addressViewModel.Address.State = validateResult.Addresses[0].Region; this.addressViewModel.Address.PostalCode = validateResult.Addresses[0].PostalCode;</pre>
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```
//TODO: need to write mapping code between
Avalara country code and AX country code.
//this.addressViewModel.Address.Country =
validateResult.Addresses[0].Country;

    }

    }
    }
    else
    {
        string validateAddressErrMsg = string.Format("{0} {1}
{2}", Environment.NewLine,
validateResult.Messages[0].Name,
validateResult.Messages[0].Details);
Pos.Customer.Customer.InternalApplication.Services.Dialog.ShowMessage(
        validateAddressErrMsg, MessageBoxButtons.OK,
MessageBoxIcon.Information);
    }
}
//-----

System.Data.SqlClient.SqlConnection sqlDataConnection =
Pos.Customer.Customer.InternalApplication.Settings.Database.Connection;

string sqlString = "select [RETAILTAXGROUPID] from
[dbo].[AVA_CONFIGURATION]";
System.Data.SqlClient.SqlCommand sqlCommand = new
SqlCommand(sqlString, sqlDataConnection);
sqlDataConnection.Open();
System.Data.SqlClient.SqlDataReader sqlReader =
sqlCommand.ExecuteReader();
string strAvaTaxGroup = string.Empty;
if (sqlReader.HasRows)
{
    sqlReader.Read();
    strAvaTaxGroup = sqlReader[0].ToString();
}
```


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<p>Customer.cproj</p>	<p>frmNewCustomer.cs/ SaveCustomer</p>	<p>Please search for the following line Note : There could be multiple occurrence present in the function with the below string . Please consider the 1st occurrence.</p> <pre> if (createdAx) { </pre> <p>Add the following lines after that.</p> <pre> ReadOnlyCollection<object> carr; carr = Pos.Customer.Customer.InternalApplication.TransactionServices.InvokeE xtension("ava_updateCustomer", tempCustomer.CustomerId); </pre>
<p>Customer.cproj</p>	<p>frmNewCustomer.cs/ SaveCustomer</p>	<p>Please search for the following line</p> <pre> createdLocal = customerDataManager.SaveTransactionalCustomer((tempCustomer as LSRetailPosis.Transaction.Customer), entityKeys); </pre> <p>Add the following lines after that.</p> <pre> this.viewModel.Customer.SalesTaxGroup = strAvaTaxGroup; this.addressViewModel.Address.SalesTaxGroup = strAvaTaxGroup; </pre>
<p>Customer.cproj</p>	<p>frmNewShippingAddr ess.cs</p>	<p>Please search for the following line</p> <pre> using DM = Microsoft.Dynamics.Retail.Pos.DataManager; </pre> <p>Add the following lines after that.</p> <pre> using Avalara.Ax.RetailCU9; using Avalara.Ax.RetailCU9.Util; using Avalara.AvaTax.Adapter.AddressService; using LSRetailPosis.Transaction; using Address = LSRetailPosis.Transaction.Address; </pre>
<p>Customer.cproj</p>	<p>frmNewShippingAddr ess.cs/ SaveShippingAddress</p>	<p>Please search for the following line Note : There could be multiple occurrence present in the function with the below string . Please consider the 1st occurrence.</p> <pre> IList<Int64> entityKeys = new List<Int64>(); </pre> <p>Add the following lines after that.</p> <pre> if (!Avalara.Ax.RetailCU9.POSDB.PosConfiguration.RetailDisableAddressVa lidation && TaxSvcHelper.countryListForValidation.Contains(Convert.ToString(this.vie </pre>

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		<pre>wModel.Address.Country))) { try { AddressSvcWrapper addressSvc = new AddressSvcWrapper(); ValidateRequest validateRequest = new ValidateRequest(); validateRequest.Address = new Avalara.AvaTax.Adapter.AddressService.Address(); validateRequest.Address.Line1 = this.viewModel.Address.StreetName; validateRequest.Address.City = this.viewModel.Address.City; validateRequest.Address.Region = this.viewModel.Address.State; validateRequest.Address.PostalCode = this.viewModel.Address.PostalCode; validateRequest.Address.Country = this.viewModel.Address.Country; ValidateResult validateResult = addressSvc.Validate(validateRequest); DialogResult ValidateAddressPrompt; if (validateResult.ResultCode == Avalara.AvaTax.Adapter.SeverityLevel.Success) { if (validateResult.Addresses.Count > 0) { string validateAddressMsg = string.Format("Address Validated by AVATAX{0}{1} {2} {3} {4} {5} {6} {7}", Environment.NewLine, validateResult.Addresses[0].Line1, validateResult.Addresses[0].City, validateResult.Addresses[0].Region, validateResult.Addresses[0].PostalCode, validateResult.Addresses[0].Country, Environment.NewLine, "DO you want to update?"); ValidateAddressPrompt = Pos.Customer.Customer.InternalApplication.Services.Dialog.ShowMessag e(validateAddressMsg, MessageBoxButtons. YesNo, MessageBoxIcon. Question); if (ValidateAddressPrompt == DialogResult.Yes) {</pre>
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```
        this.viewModel.Address.StreetName =
validateResult.Addresses[0].Line1;
        this.viewModel.Address.City =
validateResult.Addresses[0].City;
        this.viewModel.Address.State =
validateResult.Addresses[0].Region;
        this.viewModel.Address.PostalCode =
validateResult.Addresses[0].PostalCode;

        //TODO: need to write mapping code between
Avalara country code and AX country code.
        //this.viewModel.Address.Country =
validateResult.Addresses[0].Country;
    }
}
else
{
    string validateAddressErrMsg = string.Format("{0} {1}
{2}", Environment.NewLine,
validateResult.Messages[0].Name,
validateResult.Messages[0].Details);

    Pos.Customer.Customer.InternalApplication.Services.Dialog.ShowMessag
e(
        validateAddressErrMsg, MessageBoxButtons.OK,
        MessageBoxIcon.Information);
}

}
catch (Exception ex)
{
    //MessageBox.Show(ex.Message,"Avalara Error");
//MessageBox.Show(addressSvc.Configuration.Url,"Assigned Url");
}
}

if
(string.IsNullOrEmpty(this.viewModel.Address.SalesTaxGroup))
    this.viewModel.Address.SalesTaxGroup = "AVATAX";
```

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<p>Customer.cproj</p>	<p>ViewModel\AddressViewModel.cs</p>	<p>Please search for the following line</p> <pre>using DM = Microsoft.Dynamics.Retail.Pos.DataManager;</pre> <p>Add the following lines after that.</p> <pre>using System.Data.SqlClient; using AvaAddressService = Avalara.AvaTax.Adapter.AddressService; using Microsoft.Dynamics.Retail.Pos.Contracts; using AvaAddress = Avalara.AvaTax.Adapter.AddressService.Address; using System.Collections.ObjectModel; using Avalara.Ax.RetailCU9.Util; using Avalara.Ax.RetailCU9;</pre>
<p>Customer.cproj</p>	<p>ViewModel\AddressViewModel.cs\ SaveShippingAddress</p>	<p>Please search for the following line</p> <pre>IAddress tempAddress = this.Address;</pre> <p>Add the following lines after that.</p> <pre>if (!Avalara.Ax.RetailCU9.POSDB.PosConfiguration.RetailDisableAddressValidation && TaxSvcHelper.countryListForValidation.Contains(Convert.ToString(this.Address.Country))) { try { AddressSvcWrapper addressSvc = new AddressSvcWrapper(); AvaAddressService.ValidateRequest validateRequest = new AvaAddressService.ValidateRequest(); validateRequest.Address = new Avalara.AvaTax.Adapter.AddressService.Address(); validateRequest.Address.Line1 = this.Address.StreetName; validateRequest.Address.City = this.Address.City; validateRequest.Address.Region = this.Address.State; validateRequest.Address.PostalCode = this.Address.PostalCode; validateRequest.Address.Country = this.Address.Country; AvaAddressService.ValidateResult validateResult = addressSvc.Validate(validateRequest); DialogResult ValidateAddressPrompt; if (validateResult.ResultCode == Avalara.AvaTax.Adapter.SeverityLevel.Success) { if (validateResult.Addresses.Count > 0) { string validateAddressMsg = string.Format("Address Validated by AVATAX{0}{1} {2} {3} {4} {5} {6} {7}", Environment.NewLine, validateResult.Addresses[0].Line1, validateResult.Addresses[0].City, validateResult.Addresses[0].Region,</pre>

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		<pre>validateResult.Addresses[0].PostalCode, validateResult.Addresses[0].Country, Environment.NewLine, "DO you want to update?"); ValidateAddressPrompt = Pos.Customer.Customer.InternalApplication.Services.Dialog.ShowDialog(validateAddressMsg, MessageBoxButtons.YesNo, MessageBoxIcon.Question); if (ValidateAddressPrompt == DialogResult.Yes) { this.Address.StreetName = validateResult.Addresses[0].Line1; this.Address.City = validateResult.Addresses[0].City; this.Address.State = validateResult.Addresses[0].Region; this.Address.PostalCode = validateResult.Addresses[0].PostalCode; //TODO: need to write mapping code between Avalara country code and AX country code. //this.Address.Country = validateResult.Addresses[0].Country; } } else { string validateAddressErrMsg = string.Format("{0} {1} {2}", Environment.NewLine, validateResult.Messages[0].Name, validateResult.Messages[0].Details); Pos.Customer.Customer.InternalApplication.Services.Dialog.ShowDialog(validateAddressErrMsg, MessageBoxButtons.OK, MessageBoxIcon.Information); } } catch (Exception ex) { //MessageBox.Show(ex.Message, "Avalara Error"); }</pre>
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		<pre style="color: red;">//MessageBox.Show(addressSvc.Configuration.Url,"Assigned Url"); } } if (string.IsNullOrEmpty(this.Address.SalesTaxGroup)) { System.Data.SqlClient.SqlConnection sqlDataConnection = Pos.Customer.Customer.InternalApplication.Settings.Database.Connection; string sqlString = "select [RETAILTAXGROUPID] from [dbo].[AVA_CONFIGURATION]"; System.Data.SqlClient.SqlCommand sqlCommand = new SqlCommand(sqlString, sqlDataConnection); sqlDataConnection.Open(); System.Data.SqlClient.SqlDataReader sqlReader = sqlCommand.ExecuteReader(); string strAvaTaxGroup = string.Empty; if (sqlReader.HasRows) { sqlReader.Read(); strAvaTaxGroup = sqlReader[0].ToString(); this.Address.SalesTaxGroup = strAvaTaxGroup; } } }</pre>
TransactionTriggers.s.cproj		<p>Please add the following reference to the project</p> <pre style="color: red;">Avalara.AvaTax.Adapter.dll Avalara.Ax.RetailCU9.dll Microsoft.Dynamics.Retail.Pos.SystemCore.dll</pre>
TransactionTriggers.s.cproj	TransactionTriggers.cs	<p>Please search for the following line</p> <pre>using Microsoft.Dynamics.Retail.Pos.Contracts.Triggers;</pre> <p>Add the following lines after that.</p> <pre style="color: red;">using System; using System.Collections.ObjectModel; using System.ComponentModel.Composition; using System.Data.SqlClient; using Avalara.Ax.RetailCU9.Util; using System; using System.Collections.ObjectModel; using LSRetailPosis.Transaction; using Microsoft.Dynamics.Retail.Pos.SystemCore; using LSRetailPosis.Transaction.Line.SaleItem; using LSRetailPosis.Transaction.Line.Tax;</pre>

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TransactionTriggers.cproj	TransactionTriggers.cs/ BeginTransaction	<p>Please search for the following line</p> <pre>LSRetailPosis.ApplicationLog.Log("TransactionTriggers.BeginTransaction", "When starting the transaction...", LSRetailPosis.LogTraceLevel.Trace);</pre> <p>Add the following lines after that</p> <pre> TaxSvcHelper.isReturnTran = false;</pre>
TransactionTriggers.cproj	TransactionTriggers.cs/ PreEndTransaction	<p>Please search for the following line</p> <pre>LSRetailPosis.ApplicationLog.Log("TransactionTriggers.PreEndTransaction", "When concluding the transaction, prior to printing and saving...", LSRetailPosis.LogTraceLevel.Trace);</pre> <p>Add the following lines after that</p> <pre> if (posTransaction is RetailTransaction) { RetailTransaction retailTransaction = (RetailTransaction)posTransaction; TaxSvcHelper.SetInvoiceComment(retailTransaction); }</pre>
TransactionTriggers.cproj	TransactionTriggers.cs/ PostEndTransaction	<p>Please search for the following line</p> <pre>LSRetailPosis.ApplicationLog.Log("TransactionTriggers.PostEndTransaction", "When concluding the transaction, after printing and saving", LSRetailPosis.LogTraceLevel.Trace);</pre> <p>Add the following lines after that</p> <pre> if (posTransaction is RetailTransaction) { if (TaxSvcHelper.exemptionNumber != String.Empty) { TaxSvcHelper.retailTransactionTrace.AddToTrace("Cleared Exemption Number"); //Exemption number scope ends here. TaxSvcHelper.exemptionNumber = string.Empty; } if (TaxSvcHelper.entityUseCode != string.Empty) { TaxSvcHelper.retailTransactionTrace.AddToTrace("Cleared EntityUseCode"); TaxSvcHelper.entityUseCode = string.Empty; } if (TaxSvcHelper.retailTransactionTrace != null) {</pre>

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		<pre> TaxSvcHelper.retailTransactionTrace.AddToTrace("Reset TaxOverride Date"); } if (posTransaction is CustomerOrderTransaction) { //Question - Do we need to commit this transation in AvaTax? } else { //Commented: Transactions will not be committed to AvaTaxLocal from Terminals //insted it will be recalculated at HQ and then Post } } </pre>
<p>TransactionTriggers.cproj</p>	<p>TransactionTriggers.cs/ PreReturnTransaction</p>	<p>Please search for the following line</p> <pre> LSRetailPosis.ApplicationLog.Log("TransactionTriggers.PreReturnTransaction", "Before returning the transaction...", LSRetailPosis.LogTraceLevel.Trace); </pre> <p>Add the following lines after that</p> <pre> try { TaxSvcHelper.isReturnTran = true; if (originalTransaction != null) { if (!string.IsNullOrEmpty(Convert.ToString(((LSRetailPosis.Transaction.PostTransaction)(originalTransaction)).ReceiptId))) { SetAvaAddressForReturnCal(Convert.ToString(((LSRetailPosis.Transaction.PostTransaction)(originalTransaction)).ReceiptId) , Convert.ToString(((LSRetailPosis.Transaction.PostTransaction)(originalTransaction)).StoreId) , Convert.ToString(((LSRetailPosis.Transaction.PostTransaction)(originalTransaction)).TerminalId)); } ReadOnlyCollection<object> retHQObjArr; retHQObjArr = PosApplication.Instance.TransactionServices.InvokeExtension("ava_findallAddresses", </pre>

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		<pre> ((LSRetailPosis.Transaction.RetailTransaction)(originalTransaction)).ReceiptId, ((LSRetailPosis.Transaction.RetailTransaction)(originalTransaction)).StoreId, ((LSRetailPosis.Transaction.RetailTransaction)(originalTransaction)).TerminalId, ((LSRetailPosis.Transaction.RetailTransaction)(originalTransaction)).TransactionId); if (retHQObjArr.Count > 0) { if (Convert.ToBoolean(retHQObjArr[0])) { TaxSvcHelper.OriginalAllLineShippingAddress = Convert.ToString(retHQObjArr[1]); } } } catch (Exception ex) { } } </pre>
<p>TransactionTriggers.s.cproj</p>	<p>TransactionTriggers.cs/</p>	<p>Please go to end of file and search for the 2nd last occurrence of “}” char. And following lines of code . Note : It is nothing but just adding 2 new function in the file</p> <pre> private void SetAvaAddressForReturnCal(string receiptId, string storeId, string terminalId) { try { TaxSvcHelper.OriginalstoreAddress = null; TaxSvcHelper.OriginalShippingAddress = null; string strconnect = LSRetailPosis.Settings.ApplicationSettings.Database.LocalConnection.ConnectionString; System.Data.SqlClient.SqlConnection sqlDataConnection = new SqlConnection(); sqlDataConnection.ConnectionString = strconnect; try { sqlDataConnection.Open(); } } catch { } } } } </pre>

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```
string sqlString = "select [COMMENT], [transDate] from
[dbo].[RETAILTRANSACTIONTABLE] where receiptid= " + receiptId + """;
System.Data.SqlClient.SqlCommand sqlCommand = new
SqlCommand(sqlString, sqlDataConnection);

System.Data.SqlClient.SqlDataReader sqlReader =
sqlCommand.ExecuteReader();

string strComment = string.Empty;
if (sqlReader.HasRows)
{
    sqlReader.Read();
    strComment = sqlReader[0].ToString();
    TaxSvcHelper.OriginalDocDate =
Convert.ToDateTime(sqlReader[1]);
    if (!string.IsNullOrEmpty(strComment))
    {
        Avalara.AvaTax.Adapter.AddressService.Address
tmpAddress = TaxSvcHelper.SpiltAddressstring(strComment);
        if (!(string.IsNullOrEmpty(tmpAddress.Line1)) ||
!(string.IsNullOrEmpty(tmpAddress.PostalCode)) ||
!(string.IsNullOrEmpty(tmpAddress.City))
            || !(string.IsNullOrEmpty(tmpAddress.Region)) ||
!(string.IsNullOrEmpty(tmpAddress.Country)))
        {
            if (TaxSvcHelper.OriginalShippingAddress == null)
TaxSvcHelper.OriginalShippingAddress = TaxSvcHelper.CreateAddress();
            TaxSvcHelper.OriginalShippingAddress = tmpAddress;
        }
    }
}
}
catch (Exception ex)
{
}

if (TaxSvcHelper.OriginalShippingAddress == null)
{
    AvaSetAddress(receiptId, storeId, terminalId);
}
}
catch (Exception ex)
{
}
}
public void AvaSetAddress(string receiptId, string storeId, string
terminalId)
{
    try
    {
        ReadOnlyCollection<object> retHQObjArr;

        retHQObjArr =
Pos.SystemCore.PosApplication.Instance.TransactionServices.InvokeExte
```

Code Change Document

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		<pre>nsion("ava_getStoreAddress", receiptId, storeId, terminalId); // Pos.BlankOperations.BlankOperations.InternalApplication.TransactionSer vices.InvokeExtension("getStoreAddress", receiptId); if (retHQObjArr.Count > 0) { if (Convert.ToBoolean(retHQObjArr[0])) { if (TaxSvcHelper.OriginalstoreAddress == null) TaxSvcHelper.OriginalstoreAddress = TaxSvcHelper.CreateAddress(); TaxSvcHelper.OriginalstoreAddress = TaxSvcHelper.SpiltAddressstring(Convert.ToString(retHQObjArr[1])); } } retHQObjArr = Pos.SystemCore.PosApplication.Instance.TransactionServices.InvokeExte nsion("ava_getComment", receiptId, storeId, terminalId); if (retHQObjArr.Count > 0) { if (Convert.ToBoolean(retHQObjArr[0])) { if (TaxSvcHelper.OriginalShippingAddress == null) TaxSvcHelper.OriginalShippingAddress = TaxSvcHelper.CreateAddress(); Avalara.AvaTax.Adapter.AddressService.Address tmpAddress = TaxSvcHelper.SpiltAddressstring(Convert.ToString(retHQObjArr[1])); if (!(string.IsNullOrEmpty(tmpAddress.Line1)) !(string.IsNullOrEmpty(tmpAddress.PostalCode)) !(string.IsNullOrEmpty(tmpAddress.City)) !(string.IsNullOrEmpty(tmpAddress.Region)) !(string.IsNullOrEmpty(tmpAddress.Country))) { if (TaxSvcHelper.OriginalShippingAddress == null) TaxSvcHelper.OriginalShippingAddress = TaxSvcHelper.CreateAddress(); TaxSvcHelper.OriginalShippingAddress = tmpAddress; } } } retHQObjArr = Pos.SystemCore.PosApplication.Instance.TransactionServices.InvokeExte nsion("ava_GetInvoiceDate", receiptId, storeId, terminalId); if (retHQObjArr.Count > 0) { if (Convert.ToBoolean(retHQObjArr[0])) { TaxSvcHelper.OriginalDocDate = Convert.ToDateTime(retHQObjArr[1]); } } }</pre>
--	--	---

Code Change Document

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		<pre>catch (Exception ex) { } }</pre>
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