



Avalara AvaTax for AX 2012 R3 CU12 Retail

Code Change Document - EPOS customisations

Version 1.1

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Product release #: Avalara AvaTax for AX 2012 R3 CU12 Retail Version AX 6.3.5000.138.05.00



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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 2012 R3 Retail CU12 EPOS (AX 6.3.5000.138.05.00)

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.Retail.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>Extensions\Avalara.Ax.Retail.dll</p> <p>Set value of ProviderClassNames as</p> <p>*</p> <p>Avalara.Ax.Retail.AvaTaxProvider</p>
BlankOperations.cproj		<p>Please add the following reference to the project</p> <p>Avalara.AvaTax.Adapter.dll</p> <p>Avalara.Ax.Retail.dll</p>
BlankOperations.cproj	BlankOperations.cs	<p>Search for the following</p> <p>using Microsoft.Dynamics.Retail.Pos.Contracts.Services;</p> <p>Add the following lines after that.</p> <p>using System;</p> <p>using Avalara.Ax.Retail.Util;</p> <p>using Avalara.Ax.Retail.Diagnostics;</p>
BlankOperations.cproj	BlankOperations.cs/ BlankOperations	<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);</p> <p>comment.AppendLine();</p> <p>comment.AppendFormat(ApplicationLocalizer.Language.Translate(50701), operationInfo.Parameter);</p> <p>comment.AppendLine();</p>

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```
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)
;
        }
}
```

And **replace** with the following lines of code

```
if (operationInfo.OperationId == "9999")
{

        //LSRetailPosis.POSProcesses.WinControls.StringPad

        switch (operationInfo.Parameter.ToUpper())
        {

                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 =
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,
```

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```
        // 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))
            {
                inputDialog.InputText = TaxSvcHelper.entityUseCode;
            }

LSRetailPosis.POSProcesses.POSFormsManager.ShowPOSForm(inputD
ialog);

            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))
                {
```

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		<pre>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(); 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.Retail.dll</p>

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<p>Customer.cproj</p>	<p>frmNewCustomer.cs/ SaveCustomer</p>	<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.SqlClient; using Avalara.AvaTax.Adapter.AddressService; using Avalara.Ax.Retail; using Avalara.Ax.Retail.Util; //using LSRetailPosis.Transaction; //using Microsoft.Dynamics.Retail.Pos.Contracts; using AvaAddress = Avalara.AvaTax.Adapter.AddressService.Address; using System.Collections.ObjectModel;</pre>
<p>Customer.cproj</p>	<p>frmNewCustomer.cs/ SaveCustomer</p>	<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> <p>IList<Int64> entityKeys = new List<Int64>();</p> <p>Add the following lines after that.</p> <pre>//AVA+ if (!Avalara.Ax.Retail.POSDB.PosConfiguration.RetailDisableAddress Validation && TaxSvcHelper.countryListForValidation.Contains(Convert.ToString (this.addressViewModel.Address.Country))) { AddressSvcWrapper addressSvc = new 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; ValidationResult validateResult = addressSvc.Validate(validateRequest); DialogResult ValidateAddressPrompt; if (validateResult.ResultCode == Avalara.AvaTax.Adapter.SeverityLevel.Success) { if (validateResult.Addresses.Count > 0) {</pre>

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		<pre>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.ShowDialog.ShowM essage(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; //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,</pre>
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		<pre> validateResult.Messages[0].Details); Pos.Customer.Customer.InternalApplication.Services.Dialog.ShowM essage(validateAddressErrMsg, MessageBoxButtons.OK, MessageBoxIcon.Information); } System.Data.SqlClient.SqlConnection sqlDataConnection = Pos.Customer.Customer.InternalApplication.Settings.Database.Con nection; string sqlString = "select [RETAILTAXGROUPID] from [ax].[AVA_CONFIGURATION]"; System.Data.SqlClient.SqlCommand sqlCommand = new SqlCommand(sqlString, sqlDataConnection); sqlDataConnection.Open(); System.Data.SqlClient.SqlDataReader sqlReader = sqlCommand.ExecuteReader(); if (sqlReader.HasRows) { sqlReader.Read(); strAvaTaxGroup = sqlReader[0].ToString(); } } //AVA-</pre>
<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) { Add the following lines after that. //AVA+ if (!Avalara.Ax.Retail.POSDB.PosConfiguration.RetailDisableAddress Validation && !Avalara.Ax.Retail.POSDB.PosConfiguration.RetailDisableTaxCalcu lation) { ReadOnlyCollection<object> carr; carr = Pos.Customer.Customer.InternalApplication.TransactionServices.I nvokeExtension("ava_updateCustomer", tempCustomer.CustomerId); } //AVA-</pre>

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<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> //AVA+ if (!Avalara.Ax.Retail.POSDB.PosConfiguration.RetailDisableAddress Validation && !Avalara.Ax.Retail.POSDB.PosConfiguration.RetailDisableTaxCalcu lation) { this.viewModel.Customer.SalesTaxGroup = strAvaTaxGroup; this.addressViewModel.Address.SalesTaxGroup = strAvaTaxGroup; } //AVA- </pre>
<p>Customer.cproj</p>	<p>ViewModel\AddressVi ewModel.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.Retail.Util; using Avalara.Ax.Retail; </pre>
<p>Customer.cproj</p>	<p>ViewModel\AddressVi ewModel.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> //AVA+ if (!Avalara.Ax.Retail.POSDB.PosConfiguration.RetailDisableAddress Validation && 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 = </pre>

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		<pre>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, validateResult.Addresses[0].PostalCode, validateResult.Addresses[0].Country, Environment.NewLine, "DO you want to update?"); ValidateAddressPrompt = Pos.Customer.Customer.InternalApplication.Services.Dialog.ShowM essage(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; } } } </pre>
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```
        }
    }
    else
    {
        string validateAddressErrMsg =
string.Format("{0} {1} {2}", Environment.NewLine,
validateResult.Messages[0].Name,
validateResult.Messages[0].Details);

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

    if
(string.IsNullOrEmpty(this.Address.SalesTaxGroup))
    {
        System.Data.SqlClient.SqlConnection
sqlDataConnection =
Pos.Customer.Customer.InternalApplication.Settings.Database.Con
nection;

        string sqlString = "select
[RETAILTAXGROUPID] from [AX].[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;
        }
    }
}
catch (Exception ex)
{
    TaxSvcHelper.retailTransactionTrace.AddToTrace("Inside
SaveShippingAddress, error : " + ex.Message);
}
}
//AVA-
```

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TransactionTriggers.cproj		<p>Please add the following reference to the project</p> <p style="color: red;">Avalara.AvaTax.Adapter.dll Avalara.Ax.Retail.dll Microsoft.Dynamics.Retail.Pos.SystemCore.dll</p>
TransactionTriggers.cproj	TransactionTriggers.cs	<p>Please search for the following line</p> <p>using Microsoft.Dynamics.Retail.Pos.Contracts.Triggers;</p> <p>Add the following lines after that.</p> <pre style="color: red;">using System.ComponentModel.Composition; using System.Data.SqlClient; using LSRetailPosis; using Microsoft.Dynamics.Retail.Pos.Contracts.DataEntity; using Microsoft.Dynamics.Retail.Pos.Contracts.Triggers; using Avalara.Ax.Retail.Util; using System; using System.Collections.ObjectModel; using LSRetailPosis.Transaction; using Microsoft.Dynamics.Retail.Pos.SystemCore;</pre>
TransactionTriggers.cproj	TransactionTriggers.cs/ BeginTransaction	<p>Please search for the following line</p> <p>LSRetailPosis.ApplicationLog.Log("TransactionTriggers.BeginTransaction", "When starting the transaction...", LSRetailPosis.LogTraceLevel.Trace);</p> <p>Add the following lines after that</p> <pre style="color: red;">//AVA+ TaxSvcHelper.isReturnTran = false; //AVA-</pre>
TransactionTriggers.cproj	TransactionTriggers.cs/ PreEndTransaction	<p>Please search for the following line</p> <p>LSRetailPosis.ApplicationLog.Log("TransactionTriggers.PreEndTransaction", "When concluding the transaction, prior to printing and saving...", LSRetailPosis.LogTraceLevel.Trace);</p> <p>Add the following lines after that</p> <pre style="color: red;">//AVA++ if (!Avalara.Ax.Retail.POSDB.PosConfiguration.RetailDisableTaxCalculation) { if (posTransaction is RetailTransaction) { RetailTransaction retailTransaction =</pre>

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		<pre>(RetailTransaction)posTransaction; TaxSvcHelper.SetInvoiceComment(merchantTransaction); } } //AVA-</pre>
<p>TransactionTriggers.s.cproj</p>	<p>TransactionTriggers.cs/ PostEndTransaction</p>	<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>//AVA+ if (!Avalara.Ax.Retail.POSDB.PosConfiguration.RetailDisableTaxCalculation) { if (posTransaction is RetailTransaction) { if (TaxSvcHelper.exemptionNumber != String.Empty) { TaxSvcHelper.retailTransactionTrace.AddToTrace("Cleared Exemption Number"); TaxSvcHelper.exemptionNumber = string.Empty; } if (TaxSvcHelper.entityUseCode != string.Empty) { TaxSvcHelper.retailTransactionTrace.AddToTrace("Cleared EntityUseCode"); TaxSvcHelper.entityUseCode = string.Empty; } if (TaxSvcHelper.retailTransactionTrace != null) { TaxSvcHelper.retailTransactionTrace.AddToTrace("Reset TaxOverride Date"); } } if (posTransaction is RetailTransaction) {</pre>

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		<pre> 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) { TaxSvcHelper.retailTransactionTrace.AddToTrace("Reset TaxOverride Date"); } if (posTransaction is CustomerOrderTransaction) { //Question - Do we need to commit this transaction in AvaTax? } } //AVA-</pre>
TransactionTrigger s.cproj	TransactionTriggers.c s/ PostVoidTransaction	<pre> //AVA+ if (!Avalara.Ax.Retail.POSDB.PosConfiguration.RetailDisableTaxCalc ulation) { string source = "TransactionTriggers.PostVoidTransaction"; string value = "After voiding the transaction..."; LSRetailPosis.ApplicationLog.Log(source, value, LSRetailPosis.LogTraceLevel.Trace); LSRetailPosis.ApplicationLog.WriteAuditEntry(source, value); } //AVA-</pre>

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<p>TransactionTriggers.s.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>//AVA+ if (!Avalara.Ax.Retail.POSDB.PosConfiguration.RetailDisableTaxCalculation) { try { TaxSvcHelper.isReturnTran = true; if (originalTransaction != null) { if (!string.IsNullOrEmpty(Convert.ToString(((LSRetailPosis.Transaction.PosTransaction)(originalTransaction)).ReceiptId)) { SetAvaAddressForReturnCal(Convert.ToString(((LSRetailPosis.Transaction.PosTransaction)(originalTransaction)).ReceiptId) , Convert.ToString(((LSRetailPosis.Transaction.PosTransaction)(originalTransaction)).StoreId) , Convert.ToString(((LSRetailPosis.Transaction.PosTransaction)(originalTransaction)).TerminalId)); } ReadOnlyCollection<object> rethQObjArr = PosApplication.Instance.TransactionServices.InvokeExtension("ava_findallAddresses", ((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[1])) {</pre>
---	---	---

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		<pre> TaxSvcHelper.OriginalAllLineShippingAddress = Convert.ToString(retHQObjArr[2]); } } } } catch (Exception ex) { TaxSvcHelper.retailTransactionTrace.AddToTrace(string.Format("I n PreReturnTransaction Error : ", ex.Message)); } } //AVA- </pre>
<p>TransactionTrigger s.cproj</p>	<p>TransactionTriggers.c s/</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.LocalConnec tion.ConnectionString; System.Data.SqlClient.SqlConnection sqlDataConnection = new SqlConnection(); sqlDataConnection.ConnectionString = strconnect; try { sqlDataConnection.Open(); 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)) </pre>

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```
        {  
Avalara.AvaTax.Adapter.AddressService.Address tmpAddress =  
TaxSvcHelper.SpiltAddressstring(strComment);  
        if(tmpAddress != null)  
        {  
            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;  
            }  
        }  
  
        //Added for return case  
        TaxSvcHelper.exemptionNumber =  
TaxSvcHelper.SpiltECMSstring(strComment);  
        TaxSvcHelper.entityUseCode =  
TaxSvcHelper.SpiltEUCodestring(strComment);  
  
TaxSvcHelper.retailTransactionTrace.AddToTrace(string.Format("I  
n SetAvaAddressForReturnCal with exemptionNumber = {0},  
entityUseCode = {1}", TaxSvcHelper.exemptionNumber,  
TaxSvcHelper.entityUseCode));  
        }  
    }  
    catch (Exception ex)  
    {  
  
TaxSvcHelper.retailTransactionTrace.AddToTrace(string.Format("I  
n SetAvaAddressForReturnCal-1 Error : ", ex.Message));  
    }  
  
        if (TaxSvcHelper.OriginalShippingAddress == null)  
        {  
            AvaSetAddress(receiptId, storeId,  
terminalId);  
        }  
  
        if  
(string.IsNullOrEmpty(TaxSvcHelper.exemptionNumber) ||  
string.IsNullOrEmpty(TaxSvcHelper.entityUseCode))  
        {  
            AvaSetECMSandEUCodeAddress(receiptId,  
storeId, terminalId);  
        }  
    }  
    catch (Exception ex)  
    {
```

Code Change Document

AvaTax Connector for AX 2012 R3 Retail CU12 EPOS (AX 6.3.5000.138.05.00)

		<pre>TaxSvcHelper.retailTransactionTrace.AddToTrace(string.Format("I n SetAvaAddressForReturnCal-2 Error : ", ex.Message)); } } public void AvaSetECMSandEUCodeAddress(string receiptId, string storeId, string terminalId) { try { ReadOnlyCollection<object> rethQObjArr; rethQObjArr = Pos.SystemCore.PosApplication.Instance.TransactionServices.Invo keExtension("ava_getComment", receiptId, storeId, terminalId); if (rethQObjArr.Count > 0) { if (Convert.ToBoolean(rethQObjArr[1])) { TaxSvcHelper.retailTransactionTrace.AddToTrace(string.Format("a va_getComment = ", rethQObjArr[2])); string strComment = Convert.ToString(rethQObjArr[3]); TaxSvcHelper.exemptionNumber = TaxSvcHelper.SpiltECMSstring(strComment); TaxSvcHelper.entityUseCode = TaxSvcHelper.SpiltEUCodestring(strComment); TaxSvcHelper.OriginalDocDate = Convert.ToDateTime(rethQObjArr[4]); TaxSvcHelper.retailTransactionTrace.AddToTrace(string.Format("I n AvaSetECMSandEUCodeAddress with exemptionNumber = {0}, entityUseCode = {1}", TaxSvcHelper.exemptionNumber, TaxSvcHelper.entityUseCode)); } } } catch (Exception ex) { TaxSvcHelper.retailTransactionTrace.AddToTrace(string.Format("E xception in AvaSetECMSandEUCodeAddress", ex.Message + Environment.NewLine + ex.StackTrace)); } } public void AvaSetAddress(string receiptId, string storeId, string terminalId) { try { TaxSvcHelper.retailTransactionTrace.AddToTrace(string.Format("I n AvaSetAddress calling ava_getStoreAddress with receiptId = {0}, storeId = {1}, terminalId = {2}", receiptId, storeId, terminalId));</pre>
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		<pre>ReadOnlyCollection<object> retHQObjArr; retHQObjArr = Pos.SystemCore.PosApplication.Instance.TransactionServices.InvokeExtension("ava_getStoreAddress", receiptId, storeId, terminalId); // Pos.BlankOperations.BlankOperations.InternalApplication.TransactionServices.InvokeExtension("getStoreAddress", receiptId); if (retHQObjArr.Count > 0) { if (Convert.ToBoolean(retHQObjArr[1])) { if (TaxSvcHelper.OriginalstoreAddress == null) TaxSvcHelper.OriginalstoreAddress = TaxSvcHelper.CreateAddress(); TaxSvcHelper.OriginalstoreAddress = TaxSvcHelper.SpiltAddressstring(Convert.ToString(retHQObjArr[3])); } TaxSvcHelper.retailTransactionTrace.AddToTrace(string.Format("ava_getStoreAddress return address = ", retHQObjArr[2])); } } catch (Exception ex) { TaxSvcHelper.retailTransactionTrace.AddToTrace(string.Format("Exception in AvaSetAddress", ex.Message + Environment.NewLine + ex.StackTrace)); } }</pre>
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