



# AddonSoftware® Amps Up Productivity

Plug Into New Electronic Processes

*by Christine Hawkins*

## Introduction

As BASIS' customizable ERP business solution, AddonSoftware sits atop the technology stack, in a perfect position to benefit from improvements in the underlying BBj language and Barista Application Framework, while also continuing to extend and enhance its application features.

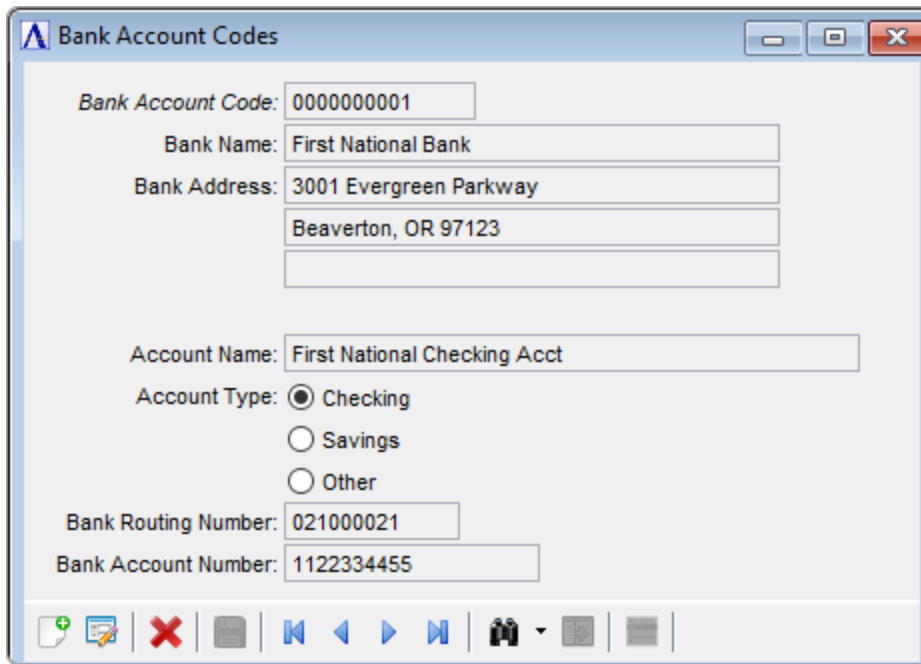
Recent versions implement electronic processing in a number of areas to add speed, convenience, reliability, and security to daily operations to deliver on AddonSoftware's goal of enhancing the productivity of your personnel. Read on for more!

## Accounts Payable

Streamline your payables processing with the option to pay your vendors electronically. This Automated Clearing House (ACH) enhancement includes non-negotiable check images of ACH payments, an ACH Payment Report to email to vendors, and the creation of a text file with all necessary National Automated Clearing House Association (NACHA) information for transmission to the financial institution.

## ACH Setup

Setting up for ACH processing is easy. Begin by creating one or more Bank Account records that contain the account and routing numbers (see **Figure 1**).



The screenshot shows a window titled "Bank Account Codes" with the following fields and values:

- Bank Account Code: 0000000001
- Bank Name: First National Bank
- Bank Address: 3001 Evergreen Parkway  
Beaverton, OR 97123
- Account Name: First National Checking Acct
- Account Type: ☒ Checking, ☐ Savings, ☐ Other
- Bank Routing Number: 021000021
- Bank Account Number: 1122334455

The window has a standard Windows-style title bar with minimize, maximize, and close buttons. At the bottom, there is a toolbar with icons for adding, deleting, and navigating between records.

**Figure 1:** Bank Account Codes

Next, reference the bank account you want to use for ACH processing in the AP Parameters. Set the "Total Record Required" flag if your bank requires a total record in the NACHA file, and supply a firm name that matches what your bank has on file. Finally, specify the directories where the NACHA export file and the ACH Payment Report files should be saved (see **Figure 2**).

The screenshot shows a software window titled "AP Parameters" with a tabbed interface. The "ACH Payments" tab is selected. The form contains the following fields and values:

- Bank Account Code:** 0000000001 (with a dropdown arrow and "First National Checking Acct" selected)
- Bank Name:** First National Bank
- Bank Address:** 3001 Evergreen Parkway, Beaverton, OR 97123
- Account Name:** First National Checking Acct
- Account Type:** ☒ Checking, ☐ Savings, ☐ Other
- Bank Routing Number:** 021000021
- Bank Account Number:** 1122334455
- Total Record Required:** ☒
- Firm Name:** Acme Manufacturing Company
- Federal ID:** 95-12351456
- ACH File Export Directory:** C:/bbx/apps/aon/documents/ACH/
- ACH Payment Rpt Directory:** C:/bbx/apps/aon/documents/

The window has a standard Windows-style title bar and a toolbar at the bottom with various icons for file operations and navigation.

**Figure 2: AP Parameters**

Finally, call up the APR\_CHECKS document record in Addon's Report Control Documents form (**Figure 3**) and fill in the email account for sending email via the Document Queue, a logo file if applicable, and the default subject and message. This document information is used for emailing/faxing the ACH Payment Report to designated vendors.

The screenshot shows a 'Report Control' window with the following fields and values:


- Report Alias or ID:** APR\_CHECKS (with a search icon and a link to [AP Check Printing](#))
- Recipient Type:** Vendor (V) (with a dropdown arrow)
- Email Account:** GMAIL (with a search icon and a link to [smtp.gmail.com](#))
- Logo File Name:** (empty text box with a search icon)
- Default Subject:** ACH Payment Summary
- Default Message:** One or more invoices have been paid via ACH. See attached report for details.


The window has a standard Windows-style title bar and a toolbar at the bottom with icons for file operations and navigation.


**Figure 3:** Report Control

The remaining setup is done on a vendor-by-vendor basis. For each vendor that wants an email copy of the ACH Payment Report, set up a Report Control Recipients record for the APR\_CHECKS document, as shown in **Figure 4**.

**Report Control Recipients**

Report Alias:   [APR\\_CHECKS](#)

Customer ID:  

Vendor ID:   [Pacific Bell](#)

☐ Include in Print Copy

☒ Email Information ☐ Fax Information

☒ Email

From:

Reply To:


To:

Cc:

Bcc:

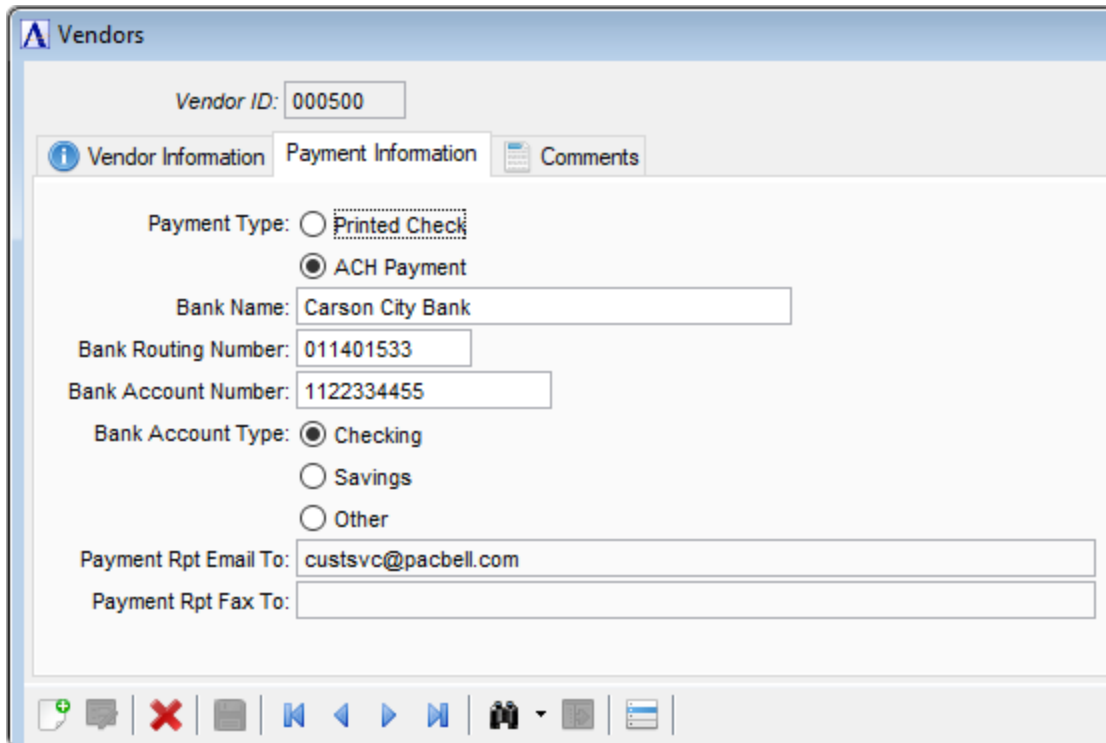
Subject:

Message:



**Figure 4:** Report Control Recipients

Fill in the Payment Information tab on the Vendor form with the vendor's banking information, specifying "ACH Payment" as the Payment Type, as shown in **Figure 5**.



The screenshot shows a software window titled "Vendors". At the top, there is a field for "Vendor ID:" with the value "000500". Below this are three tabs: "Vendor Information", "Payment Information" (which is selected), and "Comments". The "Payment Information" tab contains the following fields and options:

- Payment Type:** Two radio buttons are present. The first is labeled "Printed Check" and is currently selected. The second is labeled "ACH Payment" and is unselected.
- Bank Name:** A text field containing "Carson City Bank".
- Bank Routing Number:** A text field containing "011401533".
- Bank Account Number:** A text field containing "1122334455".
- Bank Account Type:** Three radio buttons are present. The first is labeled "Checking" and is selected. The second is labeled "Savings" and is unselected. The third is labeled "Other" and is unselected.
- Payment Rpt Email To:** A text field containing "custsvc@pacbell.com".
- Payment Rpt Fax To:** An empty text field.

At the bottom of the window is a toolbar with various icons for file operations and navigation.

**Figure 5:** Vendors - Payment Information

## Payment Cycle

The payment processing cycle begins by selecting invoices for payment. The Payment Selection grid includes a new column to identify ACH vendors and also has a new filter that allows you to view invoices for just ACH vendors, paper check vendors, or both. These new features are highlighted in **Figure 6** below.

**Payment Selection Entry**

Filters

Payment Group:

Payment Method: ACH Payments Only

AP Type:

Vendor ID:

Invoice Number:

Due Date Operator: All Due Date:

Disc Date Operator: All Discount Date:

Check Payments: ☐

ACH Payments: ☐

Total Payments: ☐

Status	Pay Gp	ACH	AP Type	Vendor	Name	Invoice	Hold	Due Date
New	10	<input checked="" type="checkbox"/>	A	000100	Paramount Industries	960215-001	<input type="checkbox"/>	03/16/2020
New	10	<input checked="" type="checkbox"/>	A	000100	Paramount Industries	960215-002	<input type="checkbox"/>	03/16/2020
New	10	<input checked="" type="checkbox"/>	A	000100	Paramount Industries	960311A	<input type="checkbox"/>	03/31/2020
New	00	<input checked="" type="checkbox"/>	B	000500	Pacific Bell	FEB BILL	<input type="checkbox"/>	03/16/2020
New	00	<input checked="" type="checkbox"/>	B	000500	Pacific Bell	MAR BILL	<input type="checkbox"/>	03/25/2020
New	30	<input checked="" type="checkbox"/>	B	000700	American Independent Ir	Feb Prem	<input type="checkbox"/>	03/16/2020
New	30	<input checked="" type="checkbox"/>	B	000700	American Independent Ir	Mar Prem	<input type="checkbox"/>	03/31/2020


**Figure 6:** Payment Selection Entry

The Payment Selection Report is also enhanced to flag ACH vendors and provide a breakdown of total payments by ACH and paper checks. This is highlighted in **Figure 7**.


Vendor	Name	ACH	Invoice	Invoice Amt	Discount	Payment
000300	Richard J. Clark, CPA		021596-001	200.00	0.00	200.00
	Totals For Vendor 000300			200.00	0.00	200.00
000500	Pacific Bell	Y	FEB BILL	275.00	0.00	275.00
			MAR BILL	250.00	0.00	250.00
	Totals For Vendor 000500			525.00	0.00	525.00
000600	United Parcel Service		99-1003	950.00	0.00	950.00
	Totals For Vendor 000600			950.00	0.00	950.00
	Totals For AP Type B Subcontract & Others			1,675.00	0.00	1,675.00
	ACH Payments			525.00	0.00	525.00
	Check Payments			1,150.00	0.00	1,150.00
	Totals For Report			1,675.00	0.00	1,675.00

**Figure 7:** Payment Selection Report

The Check Printing process separates the checks to be printed/mailed from the non-negotiable check images for ACH payments (see **Figure 8**). This makes it easy to review each document for accuracy and doesn't waste paper printing non-negotiable checks.

 <b>AddonSoftware</b> 5901 Jefferson Street NE Albuquerque, NM 87109-3432			<table border="1"> <thead> <tr> <th>Date</th> <th>Check #</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td>04/24/20</td> <td>0001535</td> <td>*****200.00</td> </tr> </tbody> </table>			Date	Check #	Amount	04/24/20	0001535	*****200.00
Date	Check #	Amount									
04/24/20	0001535	*****200.00									
Two Hundred Zero and 00/100 Dollars											
Pay to the Order of		<b>Richard J. Clark, CPA</b> <b>Ste 145</b> <b>173 MacArthur Blvd</b> <b>Newport Beach, CA 92660</b>									
<div style="text-align: right;"> <hr style="width: 200px; margin: 0 auto;"/>           Authorized Signature         </div>											

 <b>AddonSoftware</b> 5901 Jefferson Street NE Albuquerque, NM 87109-3432			<table border="1"> <thead> <tr> <th>Date</th> <th>Check #</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td>04/24/20</td> <td>A000007</td> <td>***Void***</td> </tr> </tbody> </table>			Date	Check #	Amount	04/24/20	A000007	***Void***
Date	Check #	Amount									
04/24/20	A000007	***Void***									
Five Hundred Twenty Five and 00/100 Dollars											
Pay to the Order of		<b>Pacific Bell</b> <b>PO Box 439</b> <b>8438 Jefferson Blvd</b> <b>Carson, CA 92332</b>									
<div style="text-align: right;"> <b>NON-NEGOTIABLE NON-NEGOTIABLE</b>  <hr style="width: 200px; margin: 0 auto;"/>           Authorized Signature         </div>											

**Figure 8: Check Printing**

The check register/update process creates the ACH Payment Reports, puts the reports in the Document Queue for designated vendors (**Figure 9**), and finally creates the NACHA text file for transmission to the bank (**Figure 10**).

### Figure 9: ACH Payment Report

### Figure 10: NACHA Export File

## Accounts Receivable

9

via a new option on the Customer form, or made *directly online* by authorized customer-users through a web-browser Customer Payment Portal. Approved transactions automatically generate Cash Receipts entries, and all responses from third-party secure payment gateways, whether approved or declined, are saved for historical inquiry.

## The Basics

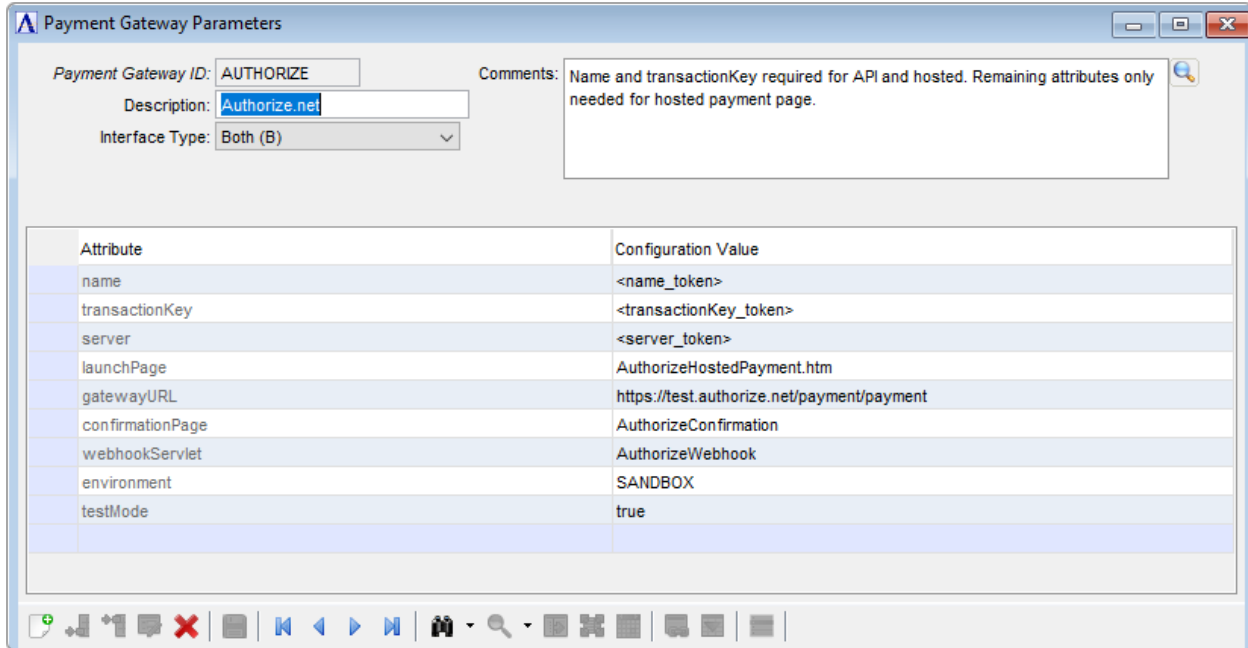
- AR Staff has two interface options for processing a credit card payment from a customer. The Cash Receipt code used for the transaction determines which mechanism is employed.
  - J2Pay is an open-source, multi-gateway payment processing library for Java that is included with Addon. With J2Pay, AR staff collects data for credit card payments in a local Addon form, then the API sends the credit card data directly to the designated gateway and an immediate response is received. In accordance with PCI guidelines, none of the credit card data is stored locally.
  - Rather than collecting sensitive data in a local form, AR staff can also access a secure hosted payment page from two other payment gateways; Authorize.net or PayFlow Pro. With the hosted pages, users are redirected to the gateway's secure site for entering credit card data, reducing the PCI burden. Responses are transmitted back to the server via PayFlow Pro's Silent Post or an Authorize.net webhook.
- Authorized customer-users can register and pay their own invoices quickly and conveniently using a URL provided as a link in emailed invoices, or printed at the bottom of conventionally printed and mailed invoices. Online customer payments use only the PayFlow Pro or Authorize.net hosted pages.

## The Gory Details

### Setup

Whether using J2Pay or a hosted page, you will need a merchant account that interfaces with one of the supported payment gateways, and an account with the gateway provider. If using hosted pages, you'll also have some configuration to do with PayFlow Pro or Authorize.net to configure the hosted pages and return responses. The return responses require that your server be accessible on the internet with a public DNS name and that you have an SSL certificate configured on ports 443 and 8443.

Within Addon, the configuration begins by entering the credentials for your gateway account in the Payment Gateway Parameters form, shown in **Figure 11**. Replace <\_token> entries with your login credentials and server name (matching the server name on the SSL certificate).



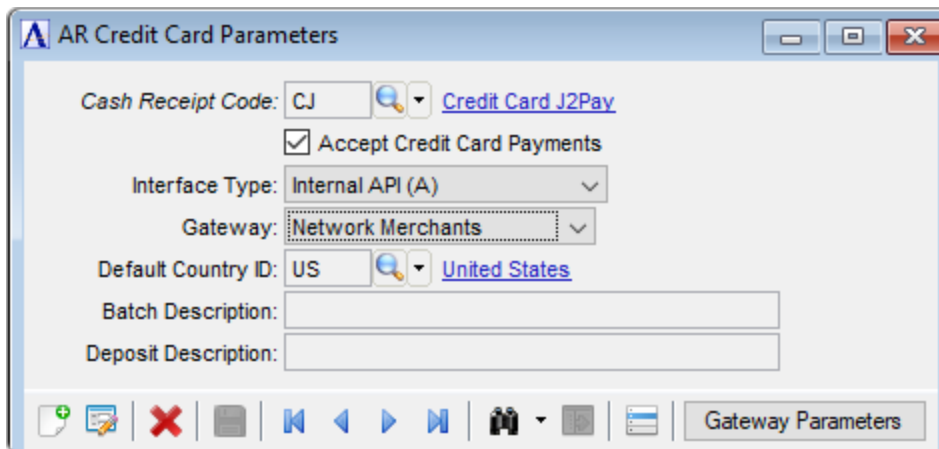
Payment Gateway ID:       Comments: Name and transactionKey required for API and hosted. Remaining attributes only needed for hosted payment page.

Description:       Interface Type:

Attribute	Configuration Value
name	<name_token>
transactionKey	<transactionKey_token>
server	<server_token>
launchPage	AuthorizeHostedPayment.htm
gatewayURL	https://test.authorize.net/payment/payment
confirmationPage	AuthorizeConfirmation
webhookServlet	AuthorizeWebhook
environment	SANDBOX
testMode	true

**Figure 11:** Payment Gateway Parameters

Next, set up one or more cash receipt codes to use for credit card payments, and reference those codes in the corresponding AR Credit Card Parameters (**Figure 12**) or Online Customer Credit Card Parameters (**Figure 13**) forms.



Cash Receipt Code:  [Credit Card J2Pay](#)

☒ Accept Credit Card Payments

Interface Type:

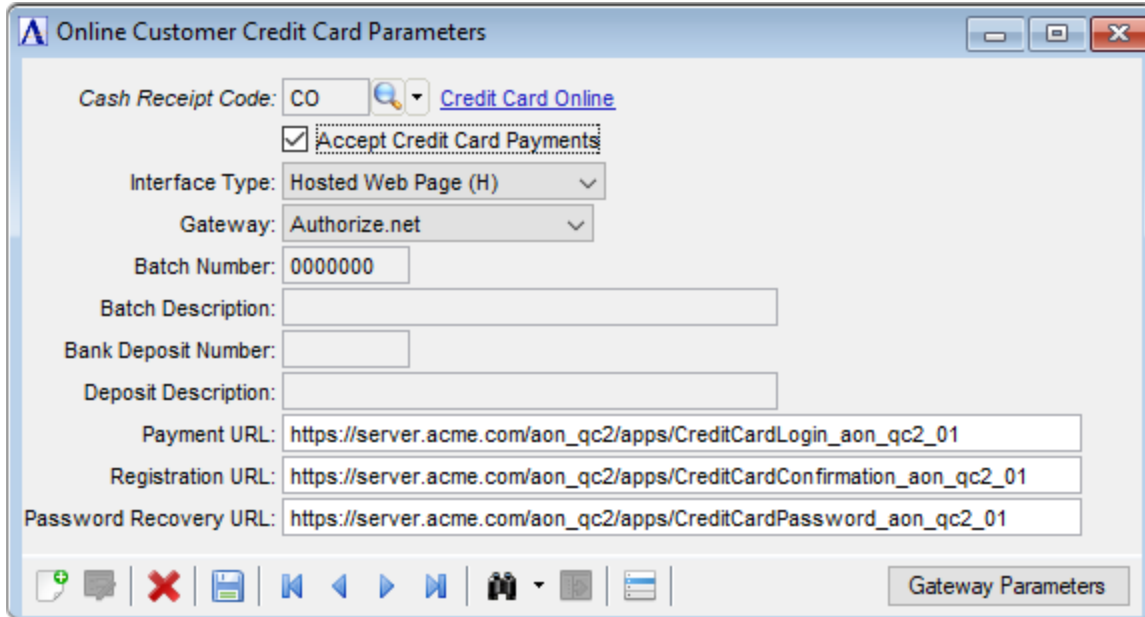
Gateway:

Default Country ID:  [United States](#)

Batch Description:

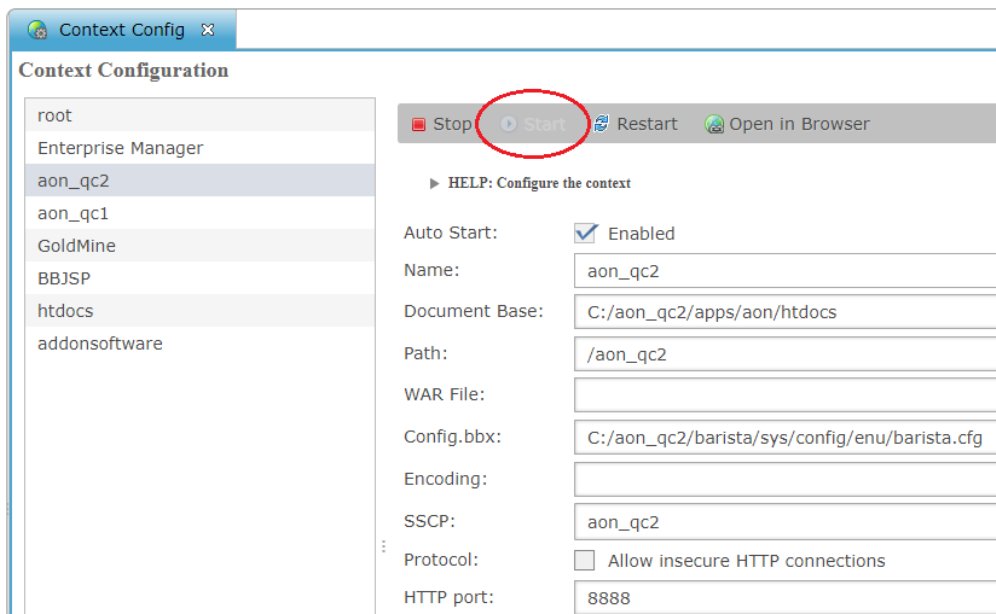
Deposit Description:

**Figure 12:** AR Credit Card Parameters



**Figure 13:** Online Customer Credit Card Parameters

For the J2Pay interface, no other configuration is needed. To use hosted pages for AR staff or online customer payments, there's a bit more to do. You'll need a web context to handle the incoming responses from PayFlow Pro and/or Authorize.net, as well as online payment registration/logins. Fortunately, when you launch a new instance of Addon, the context is automatically created for you, so all you need to do is access it in Enterprise Manager (EM) and click the "Start" button (see **Figures 14-15**).



**Figure 14:** Enterprise Manager - Context Configuration

▼ BBJSP Servlets		
Enabled	URL Mapping	Source File
true	/AuthorizeWebhook	C:/aon_qc2/apps/aon/web/AuthorizeWebhook.aon
true	/AuthorizeConfirmation	C:/aon_qc2/apps/aon/web/AuthorizeConfirmation.aon
true	/PayPalSilentPost	C:/aon_qc2/apps/aon/web/PayPalSilentPost.aon
true	/PayPalSilentPostFailure	C:/aon_qc2/apps/aon/web/PayPalSilentPostFailure.aon
true	/PayPalError	C:/aon_qc2/apps/aon/web/PayPalError.aon

**Figure 15:** Enterprise Manager - Context Servlets

That's all there is to do for AR staff payments using hosted pages. To finish setting up online customer payments, you need to create Web Applications in EM to facilitate customer-user login/registration, confirmation by an authorizing agent, and password recovery. (**Figure 16** shows the login configuration). The Online Customer Credit Card Parameters form has a handy "Configure Web App" option (**Figure 17**) to create these for you and return the URLs to the form. See [Appendix B in the Addon Accounts Receivable](#) documentation for details.

CreditCardLogin\_aon\_qc2\_01

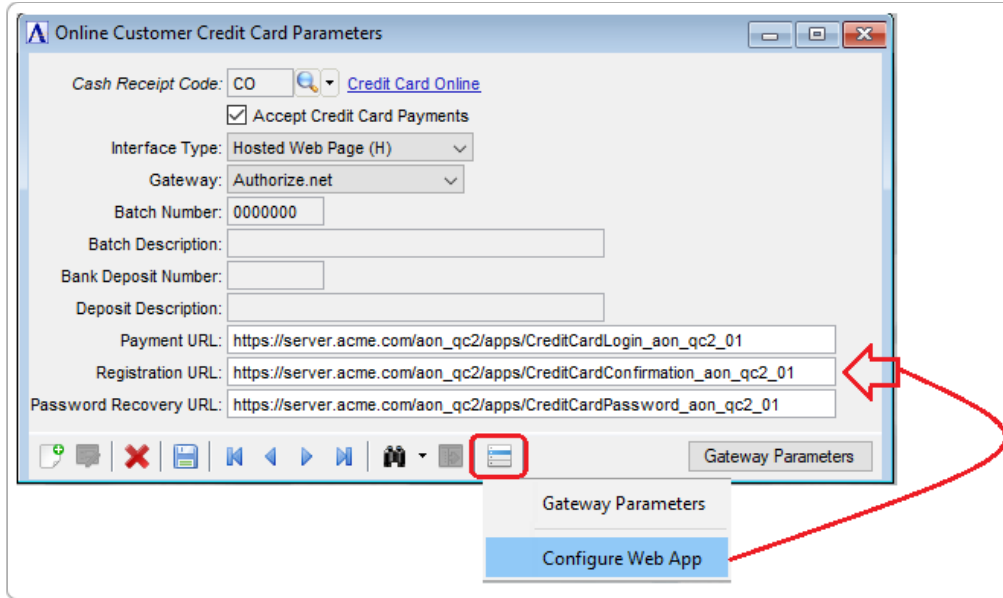
\* Desktop App creation property

Optionally Filter List of Properties

General

Application Name:	CreditCardLogin_aon_qc2_01
Program File:	sys/prog/bax_launch_task.bbj
Config File:	C:/aon_qc2/barista/sys/config/enu/barista.cfg
Working Directory:	C:/aon_qc2/barista/
Interpreter User (-u):	
Host Override:	
Classpath:	aon_qc2
Program Arguments:	-yA -tDDM_TABLES -aC:\aon_qc2\apps\aon\web\CCLoginManager.aon -f01
*Shortcut Name:	
*Shortcut Description:	
*Shortcut Image:	
*Load Image:	
Quiet:	<input checked="" type="checkbox"/>
Web App (BUI) Enabled:	<input checked="" type="checkbox"/>
Desktop App Enabled:	<input type="checkbox"/>

**Figure 16:** Configuration in EM



**Figure 17:** Online Customer Credit Card Parameters - Configure Web App

## Payments by AR Staff

Now let's take some payments. When a customer calls and would like to pay one or more invoices using a credit card, AR staff can access the new Credit Card Payments form via the Customer master. How the form behaves in terms of data collection depends on the interface type (J2Pay API or hosted page) as specified by the cash receipts code.

If using the J2Pay API, AR staff collects the necessary credit card and billing address information locally, then selects which invoices and what amounts are being paid. Because this form is collecting sensitive information, it will automatically close if left idle for more than 60 seconds. Clicking the green "run process" arrow brings up a confirmation, and given the go-ahead, sends off the purchase transaction (a.k.a. authorize/capture in credit card lingo). The returned response gets written to history, a cash receipt is created for approved transactions, and the user is presented with a final status message (**Figure 18**).

**Credit Card Payment**

Customer ID: 00-0700 [Douglas Erickson & Company](#)

Receipt Date: 04/27/2020

Batch Entry Control Number: 0000000

Cash Receipt Code: CJ [Credit Card J2Pay](#)

Bank Deposit Number:

**Credit Card Billing Information**

First Name: Evelyn

Last Name: Stevens

Credit Card Number: 4111111111111111

Credit Card Security: 912

Month: 12

Year: 2022

Address: 1893 Monterey Ct

City: Chula Vista

State/Province: CA

Payment Amount: 85.48

**AddonSoftware**

This transaction has been approved.  
Cash Receipt has been entered.

OK

Pay	Invoice No	Invoice Date	Due Date	Amount	Disc Amt	End Balance	Comments
<input type="checkbox"/>	0005071	02/09/2020	02/09/2020	4,273.75	0.00	273.75	
<input type="checkbox"/>	0005095	03/02/2020	03/02/2020	1,718.85	0.00	1,718.85	
<input type="checkbox"/>	0005108	03/08/2020	03/08/2020	2,152.87	0.00	2,152.87	
<input type="checkbox"/>	0005120	03/18/2020	03/18/2020	1,846.33	0.00	1,846.33	
<input checked="" type="checkbox"/>	0009013	02/28/2020	02/28/2020	85.48	0.00	0.00	
<input type="checkbox"/>	OA00427	04/27/2020	04/27/2020	0.00	0.00	0.00	

**Figure 18:** Credit Card Payment - Transaction Approved

When using one of the hosted pages, AR staff won't collect any billing information in the Credit Card Payments form, so those fields are disabled. Instead, once the desired invoices and payment amounts are entered and confirmed, the user is taken to the gateway's secure hosted page using a BBjHtmlView control, and all credit card information is recorded directly on the payment gateway server.

**Credit Card Payment**

Customer ID: 00-0800 [Trident Industries](#)  
 Receipt Date: 04/27/2020  
 Cash Receipt Code: CA [Credit Card AR](#)  
 Batch Entry Control Number: 0000000  
 Bank Deposit Number:

**Credit Card Billing Information**

First Name:   
 Last Name:   
 Credit Card Number:   
 Credit Card Security:   
 Month:   
 Year:   
 Payment Amount: 250.00

Address:   
 City:   
 State/Province:   
 Zip/Postal Code:   
 Country ID:   
 Telephone Number:   
 Email Address:

Pay	Invoice No	Invoice Date	Due Date	Amount	Balance
<input checked="" type="checkbox"/>	0005042	01/15/2020	02/14/2020	2,423.89	250.00
<input type="checkbox"/>	0005072	02/09/2020	03/10/2020	1,754.78	167.78
<input type="checkbox"/>	0005096	03/02/2020	04/01/2020	987.01	987.01
<input type="checkbox"/>	0005109	03/08/2020	04/07/2020	2,150.89	2,150.89
<input type="checkbox"/>	0005121	03/18/2020	04/17/2020	1,888.69	1,888.69

**Order Summary**

Total \$ 250.00

Card Number:  4111 1111 1111 1111  
 Exp. Date: 12/22  
 Card Code: 921

**Billing Address**

First Name: Paula  
 Last Name: Underwood  
 Billing Country: USA  
 Zip: 92516  
 Street Address: 781 Valencia Blvd  
 City: Fullerton  
 State: CA  
 Phone Number:

**Figure 19: Order Summary - Hosted Page**

With hosted pages, you don't have a direct two-way connection to the gateway as you do with J2Pay. Instead, the gateway provider detects payments coming in through their hosted pages, and sends responses independently to a URL that you've supplied. So when the hosted payment page is dismissed, the Credit Card Payments form waits to be notified about the incoming response, which typically arrives within a few seconds. The remaining processing is the same – the response is recorded in history and a cash receipt entry is created.

Regardless of the interface type, AR staff can enter comments that flow into cash receipts entry for any payment. The Credit Card Payments form can also be used to collect a payment applied on an account, such as a deposit.

## Online Customer Payments

The Customer Payment Portal gives your customers a quick, convenient, and secure way to pay invoices online instead of mailing in a check or calling the AR department.

## Setup

Any customer for which you want to accept online payments must have the "Allow Online Payments?" box checked in the Customer form, and a valid email address for an authorizing agent in the "Online Pay Auth Email" field, as shown in **Figure 20**.

**Customers**

Customer ID: 00-0700  
 Customer Name: Douglas Erickson & Company

Name and Address Profile Aging and Sales Summary Comments

Address: 1893 Monterey Ct  
 City: Chula Vista  
 St: CA Zip Code: 95523  
 Country ID: Country:

Alternate Sequence: DOUGLAS  
 Date Opened: 02/02/2015  
 Customer Ship Via: FDX ECN  
 3rd Party Shipping ID:  
 Free On Board [FOB]:  
 Resale Number: SREA-788321  
 DB Number:  
 SIC Code:  
☐ Customer Inactive?

Telephone Number: 619.452.2589 Ext:  
 Fax Number: 619.875.4698  
 Contact Name: Evelyn Stevens  
 Shipping Email Address:

Online Pay Auth Email: ☒ Allow Online Payments? estevens@deco.com

**Figure 20:** Customers

## Customer-user Registration

A customer-user who wants to pay online starts by simply clicking the link in an emailed invoice (**Figure 21**), or typing the URL shown on the bottom of a paper invoice into a browser, and then clicking the Register button (**Figure 22**).

**Statement from Acme Mfg**

Mon, Apr 27, 4:21 PM (20 hours ago)

Your statement is attached. Thank you for your business.

Pay online quickly and conveniently at [https://server.acme.com/aon\\_qc2/apps/CreditCardLogin\\_aon\\_qc2\\_01](https://server.acme.com/aon_qc2/apps/CreditCardLogin_aon_qc2_01)

**STATEMENT**

Customer: 00-0700  
 Address: 1893 Monterey Ct  
 Chula Vista, CA 92011

Acme Mfg  
 1000 Acme Dr  
 Chula Vista, CA 92011

Date	Invoice Number	Invoice Type	Invoice Total	Payments	Balance
0001010442_Dem...					

**Figure 21:** Emailed Invoice

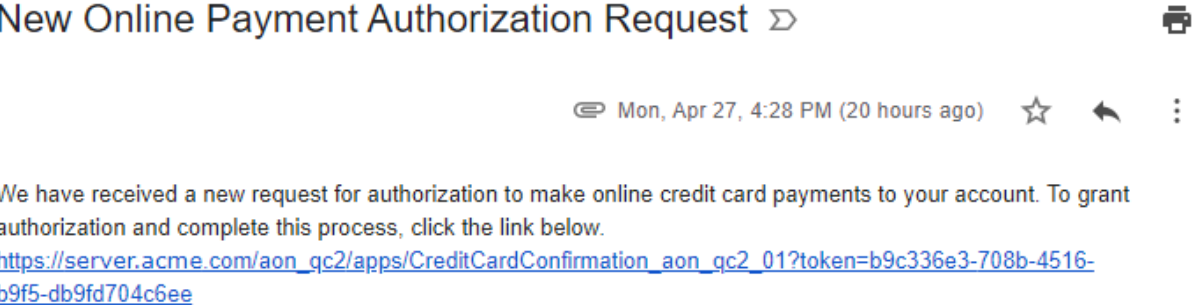


The image shows a web form titled "Acme Manufacturing Company Customer Portal - New User Registration". The form has a light blue background and is enclosed in a red border. It contains the following fields and buttons:

- User Name:** A text input field containing "estevens".
- First Name:** A text input field containing "Evelyn".
- Last Name:** A text input field containing "Stevens".
- User Email:** A text input field containing "esteven@deco.com".
- Customer ID:** A text input field containing "000700".
- Company Name:** A text field containing "Douglas Erickson & Company".
- Buttons:** Two buttons at the bottom: "Register" (highlighted with a red arrow) and "Cancel".

**Figure 22:** Customer Portal - New User Registration

When the registration is submitted, the customer's authorizing agent receives a notification email with a link to confirm the new user registration request (**Figure 23**).



The image shows an email titled "New Online Payment Authorization Request" with a printer icon in the top right corner. The email content is as follows:

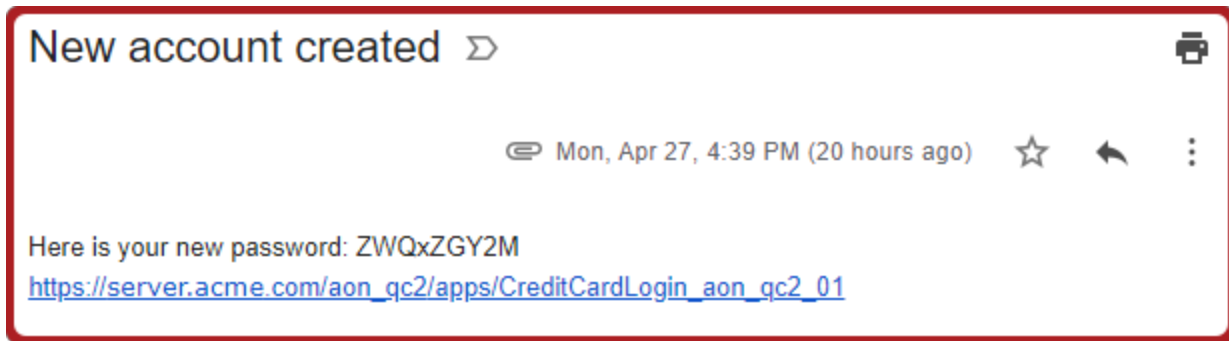
Mon, Apr 27, 4:28 PM (20 hours ago) ☆ ↩ ⋮

We have received a new request for authorization to make online credit card payments to your account. To grant authorization and complete this process, click the link below.

[https://server.acme.com/aon\\_qc2/apps/CreditCardConfirmation\\_aon\\_qc2\\_01?token=b9c336e3-708b-4516-b9f5-db9fd704c6ee](https://server.acme.com/aon_qc2/apps/CreditCardConfirmation_aon_qc2_01?token=b9c336e3-708b-4516-b9f5-db9fd704c6ee)

**Figure 23:** New Online Payment Authorization Request

Once confirmed, the customer-user receives an email containing an initial password and the link to log in (**Figure 24**). The user will be prompted to change this password on the first login.



**Figure 24:** New Account Created

Once logged in, customer-users can select invoices to pay and edit payment amounts in the web-browser Customer Online Credit Card Payment form (**Figure 25**). After confirming the total payment amount, information about the customer, invoices, and amounts is stored in a namespace, and the user is redirected to the hosted page. When they have completed the payment, they close the browser and/or tab and go on about their business.

## Acme Manufacturing Company

### Customer Portal

Username:

Password:

[Forgot Username or Password?](#)

Customer ID:  Douglas Erickson & Company

Payment Amount:

Pay	Invoice No	Invoice Date	Due Date	Amount	Avail Disc	Balance	Payment Amt	End Balance
<input checked="" type="checkbox"/>	0005095	03/02/2020	03/02/2020	1,718.85	0.00	1,718.85	200.00	1,518.85
<input type="checkbox"/>	0005108	03/08/2020	03/08/2020	2,152.87	0.00	2,152.87	0.00	2,152.87
<input type="checkbox"/>	0005120	03/18/2020	03/18/2020	1,846.33	0.00	1,846.33	0.00	1,846.33

**Figure 25:** Customer Online Credit Card Payment

Meanwhile, back on the Addon server, the response triggered by the customer-user's payment will arrive, and the servlet configured in the web context will retrieve the necessary information from the namespace, write the response history, and create the cash receipt entry (**Figure 26**). Since these transactions are happening in the background, it may be possible that a credit card payment will be successfully processed, but for some reason, the Authorize.net webhook or PayPal Silent Post servlets cannot update the response history and/or create the cash receipt. The servlets will attempt to trap and log problems and email the log entries to designated Addon users.

**Cash Receipts Entry**

Batch No: 0000000 Bank Deposit Number:

**Receipt Information**

Receipt Date: 04/28/2020 Customer Balance: 6,077.28 ☒ Show On-Account and Credits?

Customer ID: 00-0700 [Douglas Erickson & Company](#) ☐ Show zero-balance invoices?

Cash Receipt Code: CO [Credit Card Online](#) ☐ Auto-select by Invoice?

Check Number:  Cash/Check Amount: 200.00 Comments:

Reference Number:  Remaining to Apply: 0.00

Cash or Check:  Applied: 200.00

✓	Invoice	Inv Date	Due Date	Inv Amount	Opening Bal	Avail Disc	Disc Date	Applied	Disc Amt	End Balance
<input checked="" type="checkbox"/>	0005095	03/02/2020	03/02/2020	1,718.85	1,718.85	0.00	03/02/2020	200.00	0.00	1,518.85
<input type="checkbox"/>	0005108	03/08/2020	03/08/2020	2,152.87	2,152.87	0.00	03/08/2020	0.00	0.00	2,152.87
<input type="checkbox"/>	0005120	03/18/2020	03/18/2020	1,846.33	1,846.33	0.00	03/18/2020	0.00	0.00	1,846.33

**Figure 26:** Cash Receipts Entry

## Responses

Transaction responses can be viewed at any time for a specific customer as an option on the Customer form, or by launching Credit Card Response Messages from the menu. This header/detail form summarizes transaction details on the main tab (**Figure 27**), and also carries the full response text on its own tab (**Figure 28**). The invoice(s) and amounts associated with the transaction are listed in the detail grid.

Customer ID: 00-0700 [Douglas Erickson & Company](#)

Credit Card Transaction: 0000000020

Transaction Summary: Full Response

Transaction ID: 40048070421

Transaction Type: Sale (S)

Payment Gateway: Authorize.net (AUTHORIZE)

Status: ☒ Approved ☐ Declined

Amount: 200.00

Captured by: CCUSER [CC User](#)

Date: 04/28/2020

Time: 14:20

Deposit ID:

Batch No: 00000000

AR Inv No	Payment
0005095	200.00

**Figure 27:** Credit Card Response Messages - Transaction Summary

Customer ID: 00-0700 [Douglas Erickson & Company](#)

Credit Card Transaction: 0000000020

Transaction Summary: Full Response

```
{
  "webhookid": "eaafe4a6-836c-484a-ac90-087b5409c929",
  "payload": {
    "authCode": "XM70UD",
    "entityName": "transaction",
    "authAmount": 200,
    "id": "40048070421",
    "merchantReferenceId": "000700-3aa51caaf1-OL",
    "avsResponse": "Y",
    "responseCode": 1,
    "notificationId": "012d7f8c-9a91-4131-8f82-6d4623b2c015",
    "eventType": "net.authorize.payment.authcapture.created",
    "eventDate": "2020-04-28T21:20:16.860104Z"
  }
}
```

**Figure 28:** Credit Card Response Messages - Full Response

These credit card payment enhancements have it all – convenience, speed, and security for both you and your customers.

## Sales Order Processing

Addon's Shipment Tracking enhancement enables your team to know the location and status of outbound packages. The new Shipment Tracking table records tracking numbers, weight, freight costs, etc., and can be manually maintained or automatically populated if interfacing with shipping software.

## Setup

Setup begins by building a trio of tables (shown in **Figure 29**) to maintain shipping company information.

- Ship Via codes are user-defined and contain optional fields to reference the corresponding Carrier Service Code and Standard Carrier Alpha Code (SCAC).
- The Carrier Service Codes are defined by the carriers, and this table also contains a field where you can enter the carrier's URL for launching their tracking website.
- The most widely used Standard Carrier Alpha Codes (SCAC) ship with Addon (see [https://en.wikipedia.org/wiki/Standard\\_Carrier\\_Alpha\\_Code](https://en.wikipedia.org/wiki/Standard_Carrier_Alpha_Code)). Your reseller can update your SCAC table from this tab-separated list, or you can maintain them individually as desired.

The screenshot displays three overlapping windows from a software application used for setting up shipping information.

- Ship Via Codes Window:** Contains fields for 'Customer Ship Via' (UPS GCD), 'Description' (UPS Ground), 'SCAC Code' (UPGF), and 'Carrier's Service Code' (GND). It also has links to 'UPS FREIGHT' and 'UPS Ground'.
- Standard Carrier Alpha Code Window:** Shows a table with two columns: 'SCAC' and 'Carrier Co'. The table lists several codes and their corresponding carrier names.
- Carrier Service Code Window:** Contains fields for 'Carrier's Service Code' (GND), 'Carrier Service Desc' (UPS Ground), and 'Carrier's URL' (https://wwwapps.ups.com/tracking/tracking.cgi?tracknum=).

SCAC	Carrier Co
SWIFT	SWIFT TR
TCKM	Truckers
TPNW	Triple A L
TRKU	TURKON
UDRY	USAW - USA Logistics
UPGF	UPS FREIGHT
UPSC	United Parcel Service

**Figure 29:** Shipping Information Tables

For each customer, the Customer master and Customer Ship-to Address forms (see **Figure 30**) carry the preferred Ship Via Code for the customer/address, along with the customer's 3rd-Party Shipping ID (i.e., how the carrier identifies that customer), and a Shipping Email Address to use in the event of any shipping issues.

**Customers**

Customer ID: 00-0100

Customer Name: Everest Industries

**Name and Address** | Profile | Aging and Sales Summary | Comments

Address: 123 Main St Ste 111

City: San Bernardino

St: CA Zip Code: 93121

Country ID: Country:

Telephone Number: 714.832.8113 Ext: 0234

Fax Number: 714.931.9220

Contact Name: Mr. James Rockville

Shipping Email Address: jRockville@EverestIndustries.com

Alternate Sequence: EVEREST

Date Opened: 02/15/2020

Customer Ship Via: UPS GCD [UPS Ground](#)

3rd Party Shipping ID: A000100-1234567

Free On Board (FOB):

Resale Number: SR-EW399291

DB Number:

SIC Code:

☐ Customer Inactive?

☐ Allow Online Payments?

Online Pay Auth Email:

**Figure 30:** Customers

To set up an interface with shipping software, your reseller will typically need to collaborate with the shipper's interface technician. Run the Create Shipment Tracking View utility to create a SQL View that allows the shipping software to pull selected order information from the Addon database (your reseller can change the view in Enterprise Manager as needed). With that information, the shipping software can then push the corresponding tracking numbers, freight cost, etc., back to the Shipment Tracking table.

## Order/Invoice Processing

During ordering, the shipping data is populated according to the selected customer/ship-to record, but can be changed if needed (see **Figure 31**). The Ship Via Code and 3rd-party shipping ID are included on the Picking List.

**Order Entry**

Customer ID: 00-0100 [Everest Industries](#) Net Sale: 1,431.00 Printed  
 Order No: 0001053 Taken By: +ON Credit is Okay

Addresses **ABC Basics** Totals

Order Type: Sale (S) Order Date: 01/22/2020 Ship Date: 01/22/2020 Expiration Date:   
 Customer Type: A [Dealer](#) Customer Pricing Code: C  
 Misc Number: Sales Disc Code: A [Class A Dealer](#) Salesperson Code: J  
 Terms Code: 1 [Net \(Due On Receipt\)](#) Standard Message Code: 0  
 Distribution Code: A1 [Product A/Location 1](#) Tax Code: C  
 Territory Code: 001 [Western U.S.](#) List Price Code:   
 Job Number:   
 PO Number: PO Release No: Free On Board (FOB):   
 Ship Via: UPS GCD [UPS Ground](#)  
 3rd Party Shipping ID: A000100-1234567  
 Shipping Email Address: jRockville@EverestIndustries.com

**Figure 31: Order Entry - Shipping Data**

If a shipping interface is in place, then once the order is pulled up in the shipping system and finalized, the shipping software writes back tracking numbers, charges, etc. to the Shipment Tracking table. If no interface is set up, or if shipping with a different carrier, the shipping information can also be entered manually.

Once the tracking data is in place, it can be viewed and maintained from the Shipment Tracking form, accessible directly from the Sales Order Processing menu, and also from the Order and Invoice Entry forms. From the Shipment Tracking form, select a detail line and click the Shipment Tracking button (highlighted in **Figure 32**) to go directly to the shipper's tracking site to get up-to-date information about the package.

**Shipment Tracking Maintenance**

Customer ID: 00-0100 [Everest Industries](#) Ship To: Everest Industries  
 Sales Order Number: 0001053 [0001053](#) 123 Main St Ste 111  
 3rd Party Shipping ID: A000100-1234567  
 Shipping Email Address: jRockville@EverestIndustries.com  
 Ship Via: UPS GCD [UPS Ground](#) San Bernardino CA 93121

Tracking Number	Void?	Weight	Actual Freight Amt	Customer Freight Amt	Ship Date	Carrier's Service Code	SCAC Code
000100-0001053-001-01	N	25.00	160.16	160.16	01/22/2020	GND	UPGF
000100-0001053-001-01	Y	25.00	160.16	160.16	01/22/2020	GND	UPGF
000100-0001053-001-02	N	25.00	160.16	160.16	01/22/2020	GND	UPGF

Edit **Shipment Tracking**

**Figure 32: Shipment Tracking Maintenance**

Finally, when invoicing an order, the freight amount automatically populates from the Shipment Tracking table, if available, saving time and reducing the possibility of input errors (**Figure 33**).

The screenshot shows the 'Invoice Entry' window for 'Everest Industries'. The 'Customer ID' is 00-0100 and the 'Order No.' is 0001053. The 'Invoice Number' is 0005201. The 'Net Sale' is empty and 'Taken By' is +ON. The 'Totals' tab is selected, showing a table of financial data. The 'Freight Amount' field, with a value of 160.16, is highlighted with a red circle. The 'Aging Amounts' section shows a total aging of 18,024.58.

		Aging Amounts		
Total Sales Amount:	1,500.00	Future:	0.00	Average
Discount Amount:	150.00	Current:	12,925.81	
Subtotal:	1,350.00	30 Days:	3,272.00	Last
Tax Amount:	81.00	60 Days:	1,826.77	Last F
Freight Amount:	160.16	90 Days:	0.00	Las
Net Sales:	1,591.16	120 days:	0.00	L
		Total Aging:	18,024.58	

**Figure 33:** Invoice Entry - Freight Amount

Addon's Shipment Tracking enhancement, combined with an interface to your shippers, quickly and reliably updates information for improved accuracy and customer service.

## Summary

BASIS' AddonSoftware ERP solution continues to receive the benefits of the ever-expanding features of its core BBj language and the Barista Application Framework. The solution is uniquely positioned in the market where BASIS controls both the development of the core components **and** its implementation in a modern, full-featured ERP system. Such is the case with the three new features highlighted in this article.

## Pay Vendors Electronically

AddonSoftware's payables processing receives a boost in efficiency with the option to pay vendors electronically as well as preserving business control using stored check images and integrated reporting. Paperless check images can be quickly searched and retrieved electronically eliminating the time required to manually search storage areas for historical receipts.

## Secure Online and Back Office Electronic Credit Card Processing

The new credit card interface allows customers to pay their invoices online 24x7 improving customer convenience and eliminating some of the processing duties of the AR staff. This web-browser payment portal generates Cash Receipt entries automatically, saving still more processing steps. Control is retained through payment reporting for both approved and declined transactions that can be queried. In addition, AR staff can securely process customer credit card payments.

## Shipment Tracking

Lastly, AddonSoftware's shipment tracking enhancement improves customer satisfaction and brings productivity improvements to Sales Order Processing with real-time status of the location and status of outbound shipments. This flexible enhancement can be interfaced with third-party shipping software and provides quick access to weights, shipping costs, tracking numbers and more.

Explore the AddonSoftware ERP solution for yourself and amp up **your** productivity.