

# EdgeExpress

CNP API SPECIFICATION 1.0

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## OVERVIEW

The Edge Express Card Not Present API offers EdgeExpress merchants the ability to process manual-entry transactions. Manual entry is performed on a secure, customizable, web-hosted pay page. Combined with the EdgeExpress API, EdgeExpress merchants have the option of processing both sets of transactions with a single integration.

### Supported Payment Types

- Credit Card
- CHECK

### Supported Entry Methods

- KEYED

### Supported Payment Devices

Supported Payment Devices			
Manufacturer	Part Number	EMV	Debit
IDTECH MSR Keyboard Emulation	IDMB-334133	No	No
MagTek Dynamag Keyboard Emulation	MAG21073062-3	No	No
MagTek BulleT Keyboard Emulation	MAG21073098	No	No
MagTek Mini MICR (ACH)		N/A	N/A

### Supported Features

- **Encrypted Manual Entry**  
EdgeExpress CNP Pay Page supports encrypted devices such as the Ingenico iPP320 that immediately encrypt manually entered card data at the device level to provide an increased level of security.
- **Clear Text Manual Entry**  
EdgeExpress allows for the card information to be securely entered on our hosted payment page as opposed to the point of sale application, reducing the Integrator's PCI Scope.
- **Payment Page Branding and Customization**  
The Integrator may brand and customize the payment page through the integration to provide a transparent look and feel for the end user.
- **Automatic Frame Size Scaling**  
EdgeExpress CNP Pay Page's payment page will automatically size itself accordingly by detecting the browser version and device model. This provides the Integrator supportability across multiple different operating systems and browsers.
- **Managed Payer Data**  
The Integrator may request EdgExpress CNP Pay Page to store and tokenize the card data for secure and subsequent card on file or recurring payments.
- **Decline Minimizer**  
If an integrator utilizes Managed Payer Data to store the card on file, OpenEdge can automatically retrieve updates from the Card Issuing Banks. The Integrator may then receive an updated Secure Primary Account Number (last 4 digits),

Expire Month and Expire Year in transaction responses when using the Payer Identifier to process a transaction through EdgeExpress CNP Pay Page.

- **AVS Mismatch Filtering**

EdgeExpress allows an integrator to accept or deny transactions based on the Address Verification results received from the card issuing bank after the authorization for funds have been completed. If the integrator chooses to deny a transaction due to a mismatch, EdgeExpress will reverse the authorization, and send back a *RESPONSECODE=6* and *RESPONSEDESCRIPTION= Rejected transaction: AVS response code is not acceptable.*

- **CVV Mismatch Filtering**

EdgeExpress allows an integrator to accept or deny transactions based on the Card Code Verification results received from the card issuing bank after the authorization for funds have been completed. If the integrator chooses to deny a transaction due to a mismatch, EdgeExpress will reverse the authorization, and send back a *RESPONSECODE=6* and *RESPONSEDESCRIPTION= Rejected transaction: CVV response code is not acceptable.*

- **Partial Authorization**

EdgeExpress allows an integrator to request an authorization for less than what was requested initially. The Integrator must evaluate the values contained in *APPROVEDAMOUNT* and *REQUESTEDAMOUNT* to find out if there is a delta and take the next appropriate action from there. It is recommended that if a transaction is partially approved that you allow the user to select whether they want to void the partially approved transaction and charge the full amount with a different payment, or simply pay the difference and leave the partially approved transaction as is. If they want to deny the partially approved payment, please make sure that you send in a VOID request for the partially approved transaction.

- **Payment Post Back Notification**

An integrator may request EdgeExpress to post back the transaction details to a URL after the payment has been processed.

- **Browser Redirect Support**

EdgeExpress allows the integrator to specify a Return URL for EdgeExpress to redirect the user to after the transaction has been submitted.

- **Post Back to Target Support**

If an Integrator does not have a URL for EdgeExpress to post back transaction results to, for example in a deployed point of sale application, they may request EdgeExpress to post back the results to the payment page itself. This allows the Integrator to evaluate the session within an embedded browser control, and take the next appropriate action after the payment has been processed.

## HOW DO I INTEGRATE?

Simply make an HTTPS POST request using XML and set the Minimum Request Field Requirements, and we'll take care of the Payment Transaction. Once the payment has been processed, your application will receive a post back notification, and you'll follow up to retrieve the payment details via a Query.

We have provided working HTTPS POST samples for many main programming languages, however, if you require assistance for a specific programming environment, please contact [developerservices@openedgepay.com](mailto:developerservices@openedgepay.com) and we'll be glad to assist.

### Integration Methods

There are two available methods of integrating with the EdgeExpress CNP API: Two Step Integration and One Step Integration.

#### A- Two Step Integration

- a. First POST request to: <https://ee.paygateway.com/HostPayService/v1/hostpay/transactions/>. The payment page URL will be returned.

#### Sample Request

```
<REQUEST>
  <XWEBID>906000000557</XWEBID>
  <XWEBTERMINALID>90004090</XWEBTERMINALID>
  <XWEBAUTHKEY>XXXXXXXXXXXXXXXXXXXX</XWEBAUTHKEY>
  <TRANSACTIONTYPE>CREDITSALE</TRANSACTIONTYPE>
  <AMOUNT>10</AMOUNT>
  <ALLOWDUPLICATES>TRUE</ALLOWDUPLICATES>
  <ORDERID>7585730902</ORDERID>
  <HOSTPAYSETTING>
    <POSDEVICE>
      <TYPE>KEYED</TYPE>
    </POSDEVICE>
  </HOSTPAYSETTING>
</REQUEST>
```

#### Sample Response

```
<RESULT>
  <PAYPAGEURL>https://ee.paygateway.com/HostPayService/v1/hostpay/paypage/15530115819574fP8iBR2717gBoZ4HUJ</PAYPAGEURL>
  <SESSIONTOKEN>15530115819574fP8iBR2717gBoZ4HUJ</SESSIONTOKEN>
</RESULT>
```

- b. Display the payment page at:

<https://ee.paygateway.com/HostPayService/v1/hostpay/paypage/{BsessionToken}>

## B- One Step Integration

- a. Direct "POST" request to <https://ee.paygateway.com/HostPayService/v1/hostpay/paypage>.  
The payment HTML page will be returned.

## EdgeExpress CNP Workflow Steps

1. Consumer or Clerk uses application to checkout.
2. Application initiates an HTTPS request to EdgeExpress with the minimum required request fields.
3. EdgeExpress will provide an HTML Payment Page.
4. The application may fully redirect the consumer or clerk to the Payment Page or embed the Payment Page within an embedded Browser or an iFrame by pointing the source to the EdgeExpress PayPage URL appended with the value returned in the sealedSetupParameters hidden HTML tag. For example, the full path of an EdgeExpress URL for a specific payment would be similar to:  
<https://ee.paygateway.com/HostPayService/v1/paypage/0TY0poS2mcmoJUHQJkAWIOY4cjo7ZwOqC5RQbpol>
5. The Consumer or Clerk will fill in the Payment Page and submit the transaction for processing.
6. Upon payment completion, EdgeExpress will notify the Partner Application that the Payment has been completed using one of the following methods and depending on the application type.

### Web Based Applications (SaaS)

For web based applications, EdgeExpress will post back minimal parameters appended to the RETURNURL, if it is provided in Step 2, to let the partner know that the payment has been completed.

Once the application has received the Post to the RETURNURL, it should initiate the Query request to EdgeExpress using the ORDERID to retrieve the transaction details. For example, a RETURNURL POST would be similar to:

[http://PARTNER\\_DOMAIN\\_HERE./?params=<%3Fxml+version%3D"1.0"+encoding%3D"UTF-8"+standalone%3D"yes"%3F><RESULT><ORDERID>100<%2FORDERID><RESPONSECODE>814<%2FRESPONSECODE><RESPONSEDESCRIPTION>Invalid+Reference+Error%3A+Duplicate+OrderID+sent<%2FRESPONSEDESCRIPTION><%2FRESULT>](http://PARTNER_DOMAIN_HERE./?params=<%3Fxml+version%3D)

### Locally Install Applications (Deployed)

For installed applications using an embedded browser, it is recommended that you use an event listener to detect the value returned in the paymentFinishedSignal hidden HTML tag. After the payment has been completed, EdgeExpress will set the value within this tag to "Done".

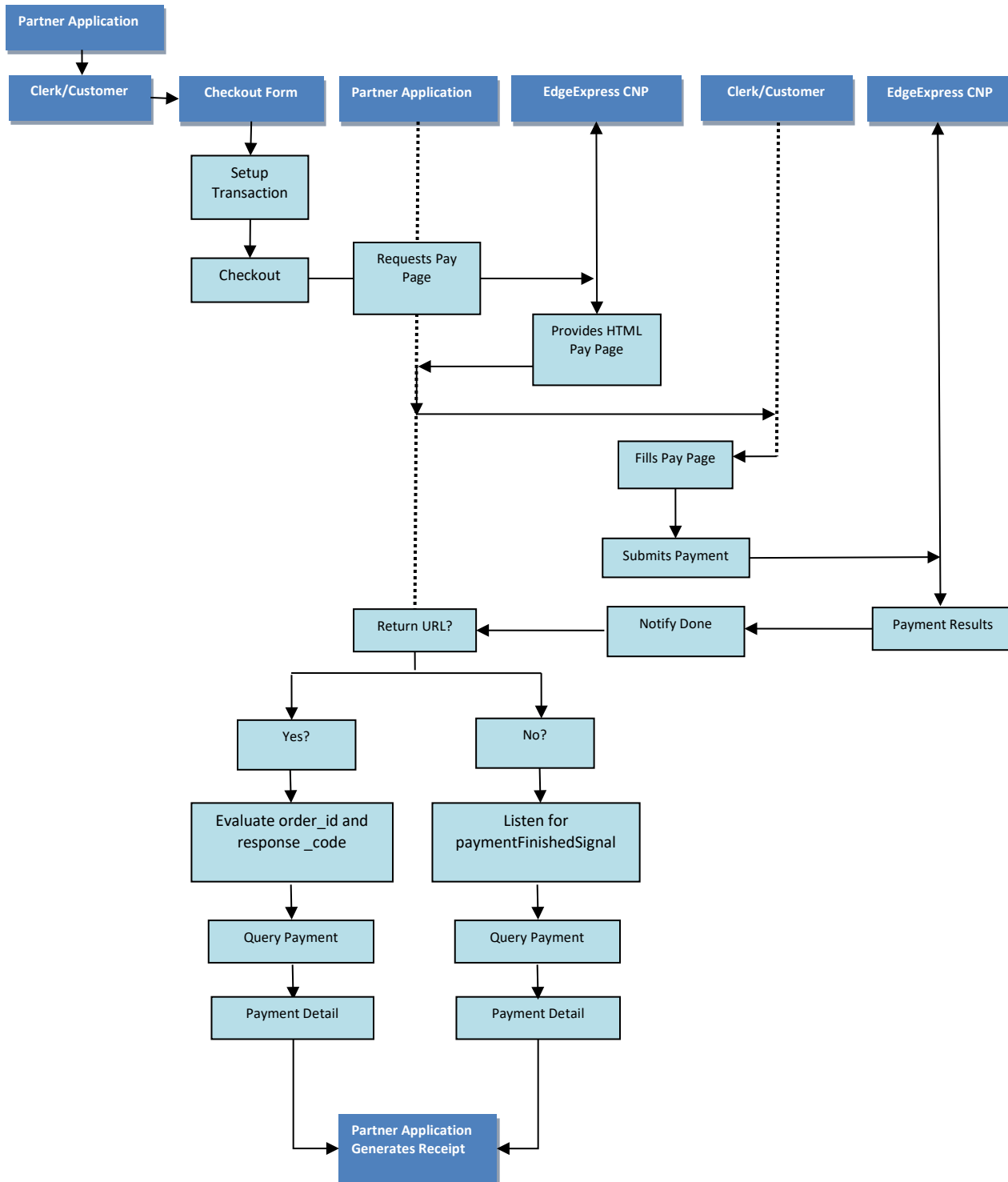
For example:

```
<input type="hidden" id="paymentFinishedSignal" value="Done"/>
```

Once the Application has detected this signal, it should initiate the Query request to EdgeExpress using the ORDERID to retrieve the transaction details.

7. Partner application uses the Payment Details to generate a payment receipt for the consumer.

## EdgeExpress Workflow Diagram





## PAYMENT DEVICE INSTALLATION

### ID Tech MSR KBE

The IDTech MSR is a keyboard emulation device and does not require any drivers to be installed. To install the IDTech MSR, simply plug in the device to an available USB port on the computer.


### MagTek Dynamag KB

The Magek Dynamag KB is a keyboard emulation device and does not require any drivers to be installed. To install the Dynamag, simply plug in the device to an available USB port on the computer.


### MagTek BulleT KB

The MagTek BulleT KB is a keyboard emulation encrypted card reader which requires a Bluetooth connection to communicate with mobile devices.

#### CHARGING AND POWER

 The BulleT may be charged with a wired connection to a PC or Mac. In this situation, attach the USB cable. It takes approximately 2.5 hours to fully charge the battery and it will stay charged for approximately 100 card swipes. The LED will slowly blink amber while the battery is charging and then turn solid amber when the battery is fully charged (for best results, allow the battery to fully charge).

#### BLUETOOTH CONNECTION PAIRING

 Bluetooth devices must be paired together one time before normal use. Please note that when pairing the BulleT to a different device, make sure the original device is not in range or is turned off to prevent interference.

1. Pull up your phone's settings menu.
2. Select Bluetooth from the menu.
3. Turn on the BulleT reader by briefly pressing down the power button. A green light will flash when the device is trying to connect.
4. Select Scan for Devices.
5. Select the MagTek device when it appears on the screen.
6. The screen may prompt you for a PIN (the default is 1234).
7. The device is now paired and ready to use.

#### NORMAL USE / SWIPING

1. Turn on the BulleT by briefly pressing the power button; the green light will go steady (or slowly blink) when it's ready. *The BulleT will stay on for 2 minutes. You may extend this time by pressing power button.*  
**Note:** Some devices may disable the on-screen keyboard while the BulleT is on.
2. Swipe the card; the green light will go out while it transmits the swipe (about 5 seconds) then go steady (about 2 seconds).
3. The BulleT will automatically turn itself off after transmitting the swipe.  
*You may turn the BulleT off by holding the power button for 3 seconds; the light will turn off.*

## EDGEEXPRESS URLS

### Single Payments (HTTPS POST)

For all Setup requests and to get the SessionToken(OTK), post to the following URL:

- Production (Live) Gateway: <https://ee.paygateway.com/HostPayService/v1/hostpay/transactions/>
- Test Gateway: <https://ee.test.paygateway.com/HostPayService/v1/hostpay/transactions/>

To retrieve the rendered payment page, post to the following URL:

- Production (Live) Gateway: <https://ee.paygateway.com/HostPayService/v1/hostpay/paypage/>
- Test Gateway: <https://ee.test.paygateway.com/HostPayService/v1/hostpay/paypage/>

For transactions that do not require displaying the payment page, post to the following URL:

- Production (Live) Gateway: <https://ee.paygateway.com/HostPayService/v1/directpay/express>
- Test Gateway: <https://ee.test.paygateway.com/HostPayService/v1/directpay/express>

### Return URL/Target

The following values setting the Return URL functionality must be nested within <HOSTPAYSETTING>, <RETURNOPTION> as described in the snippet below.

```
<HOSTPAYSETTING>
  <RETURNOPTION>
    <RETURNURL > [Return URL] </RETURNURL>
  </RETURNOPTION>
</HOSTPAYSETTING>
```

Return URL / Target		
Name	Acceptable Value(s)	Description
RETURNURL	A valid HTTP(S) URL	If provided, this is the URL EdgeExpress will redirect the Consumer or Clerk to, upon transaction completion, and EdgeExpress will include some minimal results about the payment to allow the integrator to know the payment was completed. See the "RETURNURL and POSTBACKURL Response Fields" section for possible response fields.
RETURNTARGET	_self	If you prefer not to have the consumer redirected to the RETURNURL when an iframe is used, please set the value of this request field to: _self

## Postback URL

The following values setting the Postback URL functionality must be nested within <HOSTPAYSETTING>, <RETURNOPTION> as described in the snippet below.

```
<HOSTPAYSETTING>
  <RETURNOPTION>
    <POSTBACKURL> [Postback URL] </POSTBACKURL>
  </RETURNOPTION>
</HOSTPAYSETTING>
```

Postback URL		
Name	Acceptable Value(s)	Description
POSTBACKURL	A valid HTTP(S) URL	If provided, this is the URL EdgeExpress will post back transaction results to, upon transaction completion. See the transactionResponse fields for <a href="#">Credit</a> and <a href="#">CHECK</a> tables below..
POSTBACKRETRYINTERVAL	Integer (1-5)	Seconds interval between response attempts in failure scenario. Default is 3.
POSTBACKMAXRETRY	Integer (0-5)	Maximum number of response attempts in a failure scenario. Default is 0.

## PAYMENT CARD REQUEST FIELDS

Listed below are the available request fields that can be used when communicating with the OpenEdge Gateway when requesting the EdgeExpress payment page for payment card transactions.

### Credit Request Fields

Credit Request Fields							
Legend: "M" – Mandatory, "O" – Optional, "C" – Conditional, "-" – Not applicable							
Field	CREDITSALE	CREDITAUTH	CREDITRETURN	CREDITUPDATE	CREDITVOID	CREDITONLINECAPTURE	CREDITOFFLINECAPTURE
XWEBID	M	M	M	M	M	M	M
XWEBTERMINALID	M	M	M	M	M	M	M

## Credit Request Fields

Legend: "M" – Mandatory, "O" – Optional, "C" – Conditional, "-" – Not applicable

Field	CREDITSALE	CREDITAUTH	CREDITRETURN	CREDITUPDATE	CREDITVOID	CREDITONLINECAPTURE	CREDITOFFLINECAPTURE
XWEBAUTHKEY	M	M	M	M	M	M	M
AMOUNT	M	M	M	M	M	M	M
TRANSACTIONTYPE	M	M	M	M	M	M	M
AMOUNT	M	M	M	M	M	M	M
ORDERID	O	O	O	O	O	O	O
APIVERSION	O	O	O	O	O	O	O
ADDRESS	O	O	-	-	-	-	O
ALIAS	O	O	O	-	O	-	O
ALLOWDUPLICATES	O	O	O	O	-	-	O
APPROVALCODE	-	-	-	-	-	-	O
AVSREQUIREDCODES	O	-	-	-	-	-	
BILLINGADDRESS1	-	O	O	-	-	-	O
BILLINGADDRESS2	O	O	O	-	-	-	O
BILLINGCITY	O	O	O	-	-	-	O
BILLINGCOUNTRY	O	O	O	-	-	-	O
BILLINGFIRSTNAME	O	O	-	-	-	-	O
BILLINGLASTNAME	O	O	-	-	-	-	O
BILLINGMIDDLENAME	O	O	-	-	-	-	O
BILLINGPOSTALCODE	O	O	O	-	-	-	O
BILLINGSTATE	O	O	O	-	-	-	O
CARDPRESENT	-	-	O	-	-	-	-
CLERK	O	O	O	-	-	-	O
CREATEALIAS	O	O	O	-	-	-	O

## Credit Request Fields

Legend: "M" – Mandatory, "O" – Optional, "C" – Conditional, "-" – Not applicable

Field	CREDITSALE	CREDITAUTH	CREDITRETURN	CREDITUPDATE	CREDITVOID	CREDITONLINECAPTURE	CREDITOFFLINECAPTURE
CUSTOMERMAILADDRESS	O	O	O	-	-	-	O
CUSTOMERNAME	O	O	-	-	-	-	O
CUSTOMERPHONENUMBER	O	O	O	-	-	-	O
CVVREQUIREDCODES	O	-	-	-	-	-	-
DESTINATIONZIP	O	O	-	-	-	O	O
ECI	O	O	O	-	-	-	O
IIASAUTHORIZEDAMOUNT	C	-	-	-	-	-	-
IIASRXAMOUNT	C	-	-	-	-	-	-
IIASTRANSACTION	C	-	-	-	-	-	-
INVOICENO	O	O	O	O	O	O	O
ORDERDESCRIPTION	O	O	O	O	O	O	O
PARTIALAPPROVALSUPPORT	O	O	-	-	-	-	-
PINCAPABILITIES	-	-	O	O	O	O	-
PONUMBER	O	O	-	O	-	O	O
POSTYPE	-	-	O	O	O	O	-
RECEIPTADDRESS	O	O	O	O	O	-	O
RECEIPTCARDHOLDERNAME	O	O	O	-	-	O	O
RECEIPTCOPYLABEL	O	O	O	O	O	O	O
RECEIPTDUPLICATE	O	O	O	O	O	O	O
RECEIPTFOOTER	O	O	O	-	-	-	O
RECEIPTFORMAT	O	O	O	O	O	O	O
RECEIPTHEADER	O	O	O	-	-	-	O
RECEIPTLINEITEMS	O	O	O	-	-	-	-

## Credit Request Fields

Legend: "M" – Mandatory, "O" – Optional, "C" – Conditional, "-" – Not applicable

Field	CREDITSALE	CREDITAUTH	CREDITRETURN	CREDITUPDATE	CREDITVOID	CREDITONLINECAPTURE	CREDITOFFLINECAPTURE
RECEIPTPHONE	O	O	O	-	-	-	O
RECEIPTPOLICY	O	O	O	-	-	-	O
RECEIPTSIGNATURELINE	O	O	O	O	O	O	O
RECEIPTSTORENAME	O	O	O	-	-	-	O
RETURNID	-	-	-	-	O	-	-
SHIPPINGADDRESS1	O	O	O	-	-	-	O
SHIPPINGADDRESS2	O	O	O	-	-	-	O
SHIPPINGCITY	O	O	O	-	-	-	O
SHIPPINGCOUNTRY	O	O	O	-	-	-	O
SHIPPINGDATE	O	O	-	O	-	O	O
SHIPPINGPOSTALCODE	O	O	O	-	-	-	O
SHIPPINGSTATE	O	O	O	-	-	-	O
TAXAMOUNT	O	O	-	-	-	O	O
TIP	O	O	-	O	-	O	-
TRANSACTIONID	-	-	O	O	O	O	-
USERDEFINED1	O	O	O	O	O	O	O
USERDEFINED2	O	O	O	O	O	O	O
USERDEFINED3	O	O	O	O	O	O	O
ZIP	-	-	O	O	-	O	-

## Check Transaction Request Fields

### Check Transaction Request Fields

Legend: "M" – Mandatory, "O" – Optional

Field	CHECKSALE	CHECKCREDIT	CHECKVERIFICATION	CHECKVOID	CHECKALIASCREATE	CHECKALIASLOOKUP	CHECKALIASDELETE
XWEBID	M	M	M	M	M	M	M
XWEBTERMINALID	M	M	M	M	M	M	M
XWEBAUTHKEY	M	M	M	M	M	M	M
TRANSACTIONTYPE	M	M	M	M	M	M	M
AMOUNT	M	M	M	M	-	-	-
ORDERID	M	M	M	M	-	-	-
ENTRYCLASS	M	M	-	-	-	-	-
ALIAS	O	O	O	-	-	M	M
ACCOUNTNUMBER	-	-	M	-	M	-	-
ROUTINGNUMBER	-	-	M	-	M	-	-
CHECKNUMBER	-	-	O	-	-	-	-
NAMEONACCOUNT	C	C	-	-	C	-	-
DLNUMBER	O	O	O	-	-	-	-
COUNTRYCODE	O	O	-	-	-	-	-
CREATECHECKALIAS	O	-	-	-	-	-	-
BANKACCOUNTTYPE	O	O	M	-	-	-	-

## Batch Settle Request Fields

### Batch Settle Request Fields

Legend: "M" – Mandatory, "O" – Optional

Field	BATCHSETTLE
XWEBID	M
XWEBTERMINALID	M
XWEBAUTHKEY	M
TRANSACTIONTYPE	M
BATCHTRANSACTIONTYPE	O

## Batch Settle Request Fields

Legend: "M" – Mandatory, "O" – Optional

Field	BATCHSETTLE
PINCAPABILITIES	O
POSTYPE	O
TRACKCAPABILITIES	O
TRACKINGID	O

## Alias Management Request Fields

### Alias Management Transaction Request Fields

Legend: "M" – Mandatory, "O" – Optional

Field	ALIASCREATE	ALIASUPDATE	ALIASLOOKUP	ALIASDELETE
XWEBID	M	M	M	M
XWEBTERMINALID	M	M	M	M
XWEBAUTHKEY	M	M	M	M
TRANSACTIONTYPE	M	M	M	M
ALIAS	-	M	M	M
ADDRESS	O	-	-	-
ZIP	O	-	-	-
ACCTNUM	O	O	-	-
EXPDATE	O	O	-	-



## Query Payment Request Fields

### Query Payment Request Fields

Legend: "M" – Mandatory, "O"- Optional,

Field	QUERYPAYMENT
XWEBID	M
XWEBTERMINALID	M
XWEBAUTHKEY	M
TRANSACTIONTYPE	M
ORDERID	M
RECEIPTFORMAT	O
RECEIPTSIGNATURELINE	O
RECEIPTCOPYLABEL	O
RECEIPTDUPLICATE	O
CLERK	O
RECEIPTHEADER	O
RECEIPTSTORENAME	O
RECEIPTADDRESS	O
RECEIPTPHONE	O
RECEIPTLINEITEMS	O
RECEIPTFOOTER	O
RECEIPTPOLICY	O

## Payment Card Request Field Definitions

### Transaction Request Field Definitions

Field	Type	Length	Description
XWEBAUTHKEY	Alphanumeric	32	Private key assigned by the OpenEdge Gateway. Merchant must present the key to authenticate itself to the Gateway. Required unless UserID and Password are used instead.
XWEBID	Numeric	12	XWebID authorization credential. This is the ID given to the merchant once they have been enrolled in the system.

Transaction Request Field Definitions			
Field	Type	Length	Description
XWEBINDUSTRY	Explicit	Variable	"RETAIL", "RESTAURANT", "ECOMMERCE", or "MOTO"
XWEBTERMINALID	Numeric	8	XWebTerminalID authorization credential. This is the ID given to the terminal once they have been enrolled in the system.
ACCOUNTNUMBER	Numeric	1-17	If AccountNumber is used, RoutingNumber must be used as well. AccountNumber cannot be used with Alias.
ADDRESS	Alphanumeric	1-50	Cardholder's address for AVS. Note: Address is only cached with the Alias until a transaction referencing the Alias is processed, up to a maximum of 15 minutes.
ALIAS	Alphanumeric	10	The Alias can be used to reference the original account number. Length is either 10 case-sensitive alphanumeric characters, or 32 characters in UUID format (8-4-4-4-12). For check transactions, ALIAS cannot be used with AccountNumber or RoutingNumber.
ALLOWDUPLICATES	Explicit	Variable	"True" or "False". Enables duplicate transactions. If not sent, this field defaults to "False".
AMOUNT	Numeric	1-8	0.01-999999.99. Transaction amount. Does not include cash back or tip amount.
APPROVALCODE	Numeric	1-8	Transaction approval code returned from processing host.
BANKACCOUNTTYPE	Explicit	Variable	"CHECKING" or "SAVINGS". The type of account used for a CHECK transaction.
BATCHTRANSACTIONTYPE	Explicit	Variable	Default value is "SETTLEMENT".
CASHBACKAMOUNT	Numeric	1-8	0.01 - 99999.99 (decimal point not required for even dollar amounts). When submitted with EBT transactions, EBTTYPE value must be "CashBenefit."
CHECKNUMBER	Numeric	1-8	For WEB, TEL, CCD, PPD, CheckNumber is system generated if the check number is not available.

## Transaction Request Field Definitions

Field	Type	Length	Description
CHECKVERIFY	Numeric	1-8	"True" or "False". Indicates that both a Check Verify and a Check Sale transaction is performed for this transaction. If not sent, this field defaults to "False".
CLERK	Alphanumeric	0-50	A merchant assigned identifier that can be used to track the person who ran the transaction.
COUNTRYCODE	Alphanumeric	0-50	"840" for USA or "124" for Canada. Defaults to "840".
CREATECHECKALIAS	Alphanumeric	0-50	"True" or "False". If not sent, defaults to "False". If set to "True", Alias cannot be specified. If set to "True", NameOnAccount must be submitted.
DEFAULTLANGUAGE	Alphanumeric	Variable	"English" or "French". Default language for EMV or Interac transactions. Language is defaulted to "English" if no default language is set.
DESTINATIONZIP	Alphanumeric	Variable	Destination postal code for a Purchase Card transaction. Hyphens are acceptable; all other symbols are removed.
DISABLEDEVICEMANUALENTRY	Alphanumeric	Variable	"True" or "False". Hides the Manual Entry button on the device. If not sent, defaults to "False".
DLNUMBER	Alphanumeric	Variable	If provided, it must contain the 2-character state abbreviation followed by a hyphen, then the actual license number. For example: AZ-D123456 means Arizona driver's license number D123456.
EBTTYPE	Alphanumeric	Variable	"FoodStamp", or "CashBenefit".
ENTRYCLASS	Alphanumeric	Variable	"CCD", "PPD", "TEL", or "WEB". If an Alias is used, only PPD, CCD, and WEB entry types are accepted.
EXPDATE	Alphanumeric	Variable	Credit card expiration date in a MMY format.
IISAAUTHORIZEDAMOUNT	Alphanumeric	Variable	Required for IAS transactions. Amount of purchase that qualifies for IAS.

Transaction Request Field Definitions			
Field	Type	Length	Description
IASRXAMOUNT	Alphanumeric	Variable	Required for IAS transactions. This is the prescription amount of the IAS transaction.
IIASTRANSACTION	Alphanumeric	Variable	Required for IAS transactions. Indicates this is an IAS Transaction type.
INVOICENO	Alphanumeric	Variable	Provides an invoice number to the transaction.
MANUALENTROPTION	Alphanumeric	Variable	0 - Prompts for Account, Expiration, and CVV 1 - Prompts for Account and Expiration. 2 - Prompts for Account and CVV. 3 - Prompts for just Account.
NAMEONACCOUNT	Alphanumeric	Variable	Used to submit the account holder's name. Must be submitted for transactions with an EntryClass of CCD, PPD, TEL and WEB. Must be submitted for Check transactions when CreateAlias is set to TRUE.
ORDERID	Alphanumeric	Variable	This field is used for tracking transactions, and for follow-on transactions (such as Returns). If an ORDERID is passed, it will be echoed back in the response to the initial transaction, as well as on any follow-on transactions. ORDERID is required for Card-Not-Present transactions.
PARTIALAPPROVALSUPPORT	Alphanumeric	Variable	"True" or "False". Allows for partial approval processing. If not sent, this field defaults to "False" for all industries. This field must be set to "True" in order to perform an IAS Transaction.
PONUMBER	Alphanumeric	Variable	Purchase Order Number is for a Purchase Card transaction.
PURCHASECARD	Alphanumeric	Variable	"True" or "False" determines if a Purchase Card is being used.
RECEIPTADDRESS	Alphanumeric	Variable	Address printed on receipt.

## Transaction Request Field Definitions

Field	Type	Length	Description
RECEIPTCARDHOLDERNAME	Alphanumeric	Variable	Cardholder name to be included under signature line. If this field is sent, and Track 1 contains a usable cardholder name, the value from Track 1 is used instead. If this field is not sent, a standard value without cardholder name is used instead. This only affects the signature text if a receipt is generated and the receipt has a signature line.
RECEIPTCOPYLABEL	Alphanumeric	Variable	"CUSTOMER_COPY", "MERCHANT_COPY", or "BOTH". Copy Label for the receipt.
RECEIPTDUPLICATE	Alphanumeric	Variable	"True" or "False". Optional field to add "Duplicate Copy" text to the receipt.
RECEIPTFORMAT	Alphanumeric	0-400	"TEXT", or "TEXT_AND_XML".
RECEIPTHEADER	Alphanumeric	0-400	Header printed on the receipt. RECEIPTHEADER supersedes what is specified in RECEIPTADDRESS, RECEIPTSTORENAME, and RECEIPTPHONE, if passed.
RECEIPTFOOTER	Alphanumeric	1-4000	This field is used to override the Custom Footer fields set at the OpenEdge Merchant Portal if desired.
RECEIPTLINEITEMS	Alphanumeric	0-8000	Line items printed on receipt.
RECEIPTPHONE	Alphanumeric	0-40	Phone number printed on receipt.
RECEIPTPOLICY	Alphanumeric	0-40	Policy printed on bottom of receipt. Field can be submitted multiple times for a cumulative character limit of 4,000.
RECEIPTPRINTTIPLINE	Alphanumeric	1	"True" or "False". This is used to force a tip line on the receipt.
RECEIPTSIGNATURELINE	Explicit	Variable	"True" or "False." This is used to select whether a signature line will be printed on the receipt.
RECEIPTSTORENAME	Alphanumeric	1	Store name printed on receipt.
RECURRING	Alphanumeric	1	"True" or "False". Indicates this is a recurring transaction.

Transaction Request Field Definitions			
Field	Type	Length	Description
RETURNID	Alphanumeric	1	A unique value assigned to CREDITRETURN transactions that were created using a REFERENCEORDERID value.
RETURNSIGNATUREFORMAT	Alphanumeric	0-50	Determines if the signature image is returned as BASE64, FILEPATH, or FILEPATH_BASE64.
ROUTINGNUMBER	Alphanumeric	0-50	If RoutingNumber is used, AccountNumber must be used as well. RoutingNumber cannot be used with Alias.
SHIPPINGDATE	Alphanumeric	0-50	Used for the E-Commerce and MOTO industries and should be sent in a MMDDYY format or "CLEAR".
SIGNATUREFILEFORMAT	Alphanumeric	0-50	Determines the returned signature file type if the request specifies BMP or PNG.
SUPPRESSUI	Alphanumeric	0-50	"True" or "False". Suppresses desktop transaction status windows. If not sent, defaults to "False".
SUPPRESSUIPROMPTS	Alphanumeric	0-50	"True" or "False". Only suppresses Credit or Debit, Yes/No and Signature confirmation windows. If not sent, defaults to "False".
TAXAMOUNT	Alphanumeric	0-50	0.00 - 9999.99. This value represents the tax amount of the transaction. A value of 0 is used to represent Tax Exempt.
TIP	Alphanumeric	0-50	Amount of the tip added to the transaction.
TITLE	Alphanumeric	0-50	String value to display on PIN Pad.

## Transaction Request Field Definitions

Field	Type	Length	Description
TRANSACTIONTYPE	Explicit	Variable	“CREDITSALE”, “CREDITRETURN”, “CREDITONLINECAPTURE”, “CREDITOFFLINECAPTURE”, “CREDITAUTH”, “CREDITUPDATE”, “CREDITVOID”, “DEBITSALE”, “DEBITRETURN”, “DEBITVOID”, “EBTSALE”, “EBTRETURN”, “EBTVOUCHERCLEAR”, “CHECKSALE”, “CHECKCREDIT”, “CHECKVERIFICATION”, “CHCKALIASCREATE”, “CHECKALIASLOOKUP”, “CHECKALIASDELETE”, “ALIASCREATE”, “ALIASUPDATE”, “ALIASLOOKUP”, “ALIASDELETE”, “QUERYPAYMENT.”
USERDEFINED1	Alphanumeric	1-25	User Defined data that is stored in the database and is echoed in the transaction response but is not sent to the processor.
USERDEFINED2	Alphanumeric	1-25	User Defined data that is stored in the database and is echoed in the transaction response but is not sent to the processor.
USERDEFINED3	Alphanumeric	1-25	User Defined data that is stored in the database and is echoed in the transaction response but is not sent to the processor.
VOUCHERSERIALNUMBER	Explicit	Variable	Serial number of the voucher.
ZIP	Alphanumeric	0-20	Cardholder's postal code for AVS. Hyphens are acceptable; all other symbols are removed. Note: ZipCode is only cached with the Alias until a transaction referencing the Alias is processed, up to a maximum of 15 minutes.

## PAYMENT CARD RESPONSE FIELDS

### Check transactionResponse and PostbackURL Fields

CHECK transactionResponse and PostbackURL Fields		
HTML id	Format	Description
ACCOUNT		Provides a masked format of the account number. The format will show the last 4 digits; the remainder will be masked out with an "X" representing each digit. This value will be returned for Alias Create and Alias Lookup transactions.
APPROVEDAMOUNT	String	Transaction Total Amount
CHECKNUMBER	String	Check number of the transaction.
ENTRYCLASS	String	"CCD", "PPD", "TEL", or "WEB". If an Alias is used, only PPD, CCD, and WEB entry types are accepted.
ORDERID	String	Order ID
ALIAS	String	The Managed Payer Data token that replaces the cardholder information.
RECEIPTID		An identification number assigned by the EdgeExpress Gateway on the receipt.
RECEIPTTEXT	String	Receipt text including transaction information and any provided customer information.
RESPONSECODE	Integer	Please see <a href="#">Response Codes</a> Section for possible values.
RESPONSEDESCRIPTION	String	The text describing the outcome of the transaction.
RETURNID	String	A unique value assigned to transactions that had an OrderID passed
ROUTINGNUMBER		Provides a masked format of the routing number. The format will show the last 4 digits, the remainder will be masked out with an "X" representing each digit.
TRANSACTIONID		Transaction ID
VERIFICATIONCODE	String	Verification code for the original transaction.



## Credit Card transactionResponse and PostbackURL Fields

Credit Card transactionResponse and PostbackURL Response Fields		
HTML id	Format	Description
ALIAS	String	The Managed Payer Data token that replaces the cardholder information.
APPROVALCODE	String	The Approval Code issued by the card issuer for card payments.
APPROVEDAMOUNT	String	The amount that the transaction was authorized for by the card issuing bank.
AUTHORIZEDAMOUNT	String	The amount that was authorized for the transaction.
AVSRESPONSECODE	String	Please see AVS Response Code Section for possible values.
BATCHAMOUNT	String	Net amount of Credit and Debit Card transactions in batch.
BATCHNO	String	The OpenEdge Platform Batch ID that the payment or credit will be Settled with.
CAPTUREDAMOUNT	String	The total amount the transaction will be settled for.
CARDBRAND	String	Card Brand
CARDBRANDSHORT	String	The industry standard abbreviation of the card brand. Possible values include "VS", "MC", "DS", "AX", "DCI-DISC", "JCB-DISC", "PP", "UICS" (order respective to CardBrand above). This value will be returned for Alias Create, Alias Update and Alias Lookup transactions.
CARDCODERESPONSE	String	Please see CVV Response Code Section for possible values.
CARDHOLDERNAME	String	Name of the card holder.
CARDTYPE	String	Card Type
CUSTOMERRECEIPT	String	Customer receipt text including transaction information and any provided customer information.
ENTRYMETHOD	String	Entry Method
EXPMONTH	String	The expiration month of the card
EXPYEAR	String	The expiration year of the card

Credit Card transactionResponse and PostbackURL Response Fields		
HTML id	Format	Description
INVOICENUMBER	String	Invoice Number
MASKEDCARDNUMBER	String	Provides a masked format of the account
MERCHANTRECEIPT	String	Merchant Receipt text including transaction information and any provided customer information.
ORDERID	String	The OrderID of the original transaction.
ORIGINALAUTHORIZEDAMOUNT	String	The amount that a transaction was initially authorized for.
ORIGINALREQUESTEDAMOUNT	String	The amount requested for the original
PROCESSORRESPONSE	String	This field returns the response from the processor. It is only returned on transactions that are processed by the processor. (Auth, Sales and Settlements).
RECEIPTID	String	An identification number assigned by the EdgeExpress Gateway on the receipt.
RESPONSECODE	String	Please see Response Codes Section for possible values.
RESPONSEDESCRIPTION	String	The text describing the outcome of the transaction.
RETURNID	String	The ReturnID of the original transaction.
TAXAMOUNT	Numeric	0.00 - 9999.99. This value represents the tax amount of the transaction. A value of 0 is used to represent Tax Exempt.
TIPAMOUNT	String	The tip amount entered on the PINPad.
TRANSACTIONID	String	Transaction ID
USERDEFINED1	String	User Defined data that is stored in the database and is echoed in the transaction response but is not sent to the processor.
USERDEFINED2	String	User Defined data that is stored in the database and is echoed in the transaction response but is not sent to the processor.
USERDEFINED3	String	User Defined data that is stored in the database and is echoed in the transaction response but is not sent to the processor.

## Alias Management Response Fields

Alias Management Response Fields		
Field	Format	Description
ACCOUNT	Alphanumeric	Provides a masked format of the account number. The format will show the last 4 digits; the remainder will be masked out with an "X" representing each digit. This value will be returned for Alias Create and Alias Lookup transactions.
ALIAS	Alphanumeric	Provides a reference to the original account number. This value will be returned for Alias Create transactions.
CARDBRAND	Alphanumeric	The card brand used for this transaction. Possible Values include "Visa", "MasterCard", "Discover", "American Express", "Diners Club", "JCB", "PayPal", "UnionPay". This value will be returned for Alias Create, Alias Update and Alias Lookup transactions.
CARDBRANDSHORT	Alphanumeric	The industry standard abbreviation of the card brand. Possible values include "VS", "MC", "DS", "AX", "DCI-DISC", "JCB-DISC", "PP", "UICS" (order respective to CardBrand above). This value will be returned for Alias Create, Alias Update and Alias Lookup transactions.
CARDTYPE	Alphanumeric	The card type used for this transaction. "Credit" - for cards that support signature only "Debit/Credit" - for cards that support either PIN-entry or signature "Debit/ATM" - for cards that support PIN-entry only "Fleet" - Used for fuel products "FSA" - for Flexible Spending Accounts
EXPMONTH	Numeric	Provides the expiration month of the account being accessed.
EXPYEAR	Numeric	Provides the expiration year of the account being accessed.
MASKEDCARDNUMBER	Alphanumeric	Provides a masked format of the card number. The format will show the BIN and the last 4 digits, the remainder will be masked out with an "X" representing each digit. This value will be returned for Alias Create, Alias Update and Alias Lookup transactions.
NAMEONACCOUNT	Alphanumeric	Provides the account holder's name stored with the Alias.
RESPONSECODE	Numeric	005 - Alias Success 031 - Preverification Failure 207 - Invalid User Credentials 208 - User Locked Out 209 - Security Question / Answer / Password Not Set 210 - Password Expired

## Alias Management Response Fields

Field	Format	Description
		212 - Temporary Password From Reset Needs To Be Updated 800-899 - Gateway Errors
RESPONSEDESCRIPTION	Alphanumeric	Gives a more detailed description on the ResponseCode.
ROUTINGNUMBER	Alphanumeric	Provides a masked format of the routing number. The format will show the last 4 digits, the remainder will be masked out with an "X" representing each digit.
TRANSACTIONID	Numeric	Gateway-assigned identifier for the transaction.

## Batch Settle Response Fields

### Batch Settle Response Fields

Field	Format	Description
BATCHAMOUNT	Numeric	Net amount of Credit and Debit Card transactions in batch.
BATCHCOUNT	Numeric	Total number of transactions in batch. For merchants using the Global Payments processor, once the batch transaction size count is greater than 1099, the automatic batch close is triggered.
BATCHNO	Numeric	The host sends back the current batch number.
CCRETURNSAMOUNT	Numeric	Total dollar amount of Credit Card Returns.
CCRETURNSCOUNT	Numeric	Total number of Credit Card Returns.
CCSALESAMOUNT	Numeric	Total dollar amount of Credit Card Sales.
CCSALESCOUNT	Numeric	Total number of Credit Card Sales.
DCRETURNSAMOUNT	Numeric	Total dollar amount of Debit Card Returns.
DCRETURNSCOUNT	Numeric	Total number of Debit Card Returns.
DCSALESAMOUNT	Numeric	Total dollar amount of Debit Card Sales.
DCSALESCOUNT	Numeric	Total number of Credit Card Sales.
PROCESSORRESPONSE	Alphanumeric	This field returns the response from the processor. It is only returned on transactions that are processed by the processor. (Auth, Sales and Settlements).
RESPONSECODE	Numeric	003 - Success 004 - Inquiry 207 - Invalid User Credentials 208 - User Locked Out 209 - Security Question / Answer / Password Not Set

## Batch Settle Response Fields

Field	Format	Description
		210 - Password Expired 212 - Temporary Password From Reset Needs To Be Updated 800-899 - Gateway Errors 900-999 - Processor Errors
RESPONSEDESCRIPTION	Alphanumeric	Gives a more detailed description on the ResponseCode.
TRANSACTIONID	Numeric	Gateway-assigned identifier for the transaction.
TRACKINGID	Numeric	TrackingID is strictly for use by the POS device, and is always echoed in the transaction response. The EdgeExpress Gateway does not store this field in its database, and therefore it is not used by any Edge transactions.

## Query Payment Response Fields

### QUERYPAYMENT Response Fields

Name	Format	Description
RECEIPTID	Numeric	An identification number assigned by the EdgeExpress Gateway on the receipt.
RESPONSECODE	Numeric	000 - Approval
RESPONSEDESCRIPTION	Alphanumeric	Gives a more detailed description on the ResponseCode.
TRANSACTIONTYPE	Alphanumeric	The Transaction Type of the transaction
PROCESSORRESPONSE	Alphanumeric	This field returns the response from the processor
TRANSACTIONDATETIME	Numeric	Date and time of the transaction.
TRANSACTIONID	Numeric	Gateway-assigned identifier for the transaction.
ORDERID	Alphanumeric	The OrderID of the original transaction.
RETURNID	Numeric	The ReturnID of the original transaction.
INDUSTRY	Explicit	"RETAIL", "RESTAURANT", "ECOMMERCE", "MOTO"
APPROVALCODE	Alphanumeric	A 6 digit authorization approval code.
BATCHNO	Numeric	This number indicates the current open batch.

QUERYPAYMENT Response Fields		
Name	Format	Description
STATE	Alphanumeric	The state of the sequence of transactions. Possible values include: <ul style="list-style-type: none"> <li>• IN_PROGRESS</li> <li>• APPROVED</li> <li>• CAPTURED</li> <li>• CLOSED</li> <li>• DECLINED</li> <li>• VOIDED</li> </ul>
APPROVEDAMOUNT	Alphanumeric	Provides the amount of the transaction or the amount of the approved partial approval.
CAPTUREDAMOUNT	Numeric	The final captured amount of the original transaction
AUTHORIZEDAMOUNT	Numeric	The amount that was authorized for the transaction.
ORIGINALREQUESTEDAMOUNT	Numeric	The amount requested for the original transaction.
ORIGINALAUTHORIZEDAMOUNT	Numeric	The original amount authorized for the original transaction.
ALIAS	Alphanumeric	The Alias of the original transaction.
MASKEDCARDNUMBER	Alphanumeric	Provides a masked format of the account number. The format will show the BIN and the last 4 digits, the remainder will be masked out with an "X" representing each digit.
EXPMONTH	Numeric	Expire month of the account being accessed.
EXPYEAR	Numeric	Expire year of the account being accessed.
CARDBRAND	Alphanumeric	The card brand used for this transaction.
CARDHOLDERNAME	Alphanumeric	Cardholder could be set by EMV or non-EMV transactions.
CARDTYPE	Alphanumeric	The card type used for this transaction. "Credit" - for cards that support signature only. "Debit/Credit" - for cards that support either PIN-entry or signature. "Debit/ATM" - for cards that support PINentry only. "Fleet" - Used for fuel products. "FSA" - for Flexible Spending Accounts
AVSRESPONSECODE	Alpha	Response from the AVS lookup.
CARDCODERESPONSE	Alpha	Response from the Card Security Code lookup.

QUERYPAYMENT Response Fields		
Name	Format	Description
CUSTOMERNAME	Alphanumeric	User-supplied customer data.
BILLINGADDRESS1	Alphanumeric	User-supplied customer data.
BILLINGADDRESS2	Alphanumeric	User-supplied customer data.
BILLINGCITY	Alphanumeric	User-supplied customer data.
BILLINGSTATE	Alphanumeric	User-supplied customer data.
BILLINGPOSTALCODE	Alphanumeric	User-supplied customer data.
BILLINGCOUNTRY	Alphanumeric	User-supplied customer data.
CUSTOMEREMAILADDRESS	Alphanumeric	User-supplied customer data.
CUSTOMERPHONENUMBER	Alphanumeric	User-supplied customer data.
ORIGINALTRANSACTIONTYPE	Alphanumeric	Returns the TransactionType of the transaction.
ORIGINALRESPONSECODE	Numeric	000 - Approval 001 - Decline 002 - Call 007 - Partial Approval 009 - Auto Decline 010 - Invalid Expiration Date 031 - Preverification Failure 207 - Invalid User Credentials 208 - User Locked Out 209 - Security Question / Answer / Password Not Set 210 - Password Expired 212 - Temporary Password From Reset Needs To Be Updated
ORIGINALRESPONSEDESCRIPTION	Alphanumeric	Gives a more detailed description of the OriginalResponseCode.
ORIGINALPROCESSORRESPONSE	Alphanumeric	This field returns the response from the processor
ORIGINALTRANSACTIONDATETIME	Numeric	Date and time of the original transaction.
RECEIPTID	Numeric	An identification number assigned by the EdgeExpress Gateway on the receipt.
RECEIPTTEXT	Alphanumeric	Receipt text including transaction information and any provided customer information.

QUERYPAYMENT Response Fields		
Name	Format	Description
RECEIPTXML	XML	Receipt in XML format
MERCHANTRECEIPT	Alphanumeric	Merchant Receipt text including transaction information and any provided customer information.
CUSTOMERRECEIPT	Alphanumeric	Customer Receipt text including transaction information and any provided customer information.
MERCHANTRECEIPTXML	XML	Merchant Receipt in XML format
CUSTOMERRECEIPTXML	XML	Customer Receipt in XML format
INVOICENUMBER	Alphanumeric	Invoice Number
PONUMBER	Alphanumeric	Purchase Order Number

## Hidden Response Fields

Hidden Response Fields		
Name	Format	Description
TRANSACTIONRESPONSE	String	The full response for the transaction.

**Sample TRANSACTIONRESPONSE value**

```
<input type="hidden" id="transactionResponse" value="<?xml version="1.0" encoding="UTF-8" standalone="yes"?><RESULT><APPROVEDAMOUNT>1.00</APPROVEDAMOUNT><APPROVALCODE>MC0100</APPROVALCODE><AUTHORIZEDAMOUNT>1.00</AUTHORIZEDAMOUNT><BATCHAMOUNT>781064.01</BATCHAMOUNT><BATCHNO>003720</BATCHNO><CAPTUREDAMOUNT>1.00</CAPTUREDAMOUNT><CARDDBRAND>MasterCard</CARDDBRAND><CARDDBRANDSHORT>MC</CARDDBRANDSHORT><CARDTYPE>Credit</CARDTYPE><EXPMONTH>2</EXPMONTH><EXPYEAR>20</EXPYEAR><MASKEDCARDNUMBER>545454XXXXX5454</MASKEDCARDNUMBER><ORDERID>7585730902</ORDERID><ORIGINALAUTHORIZEDAMOUNT>1.00</ORIGINALAUTHORIZEDAMOUNT><ORIGINALREQUESTEDAMOUNT>1.00</ORIGINALREQUESTEDAMOUNT><PROCESSORRESPONSE>000AP</PROCESSORRESPONSE><RECEIPTID>115680</RECEIPTID><RESPONSECODE>000</RESPONSECODE><RESPONSEDESCRIPTION>Approval</RESPONSEDESCRIPTION><TRANSACTIONID>000000115680</TRANSACTIONID></RESULT>"
```



## Keyed Credit/CHECK ReturnURL Response Fields

Keyed Transaction Credit/CHECK RETURNURL Responses		
HTML id	Format	Description
ORDERID	String	Order ID
RESPONSECODE	Integer	Please see <a href="#">Response Codes</a> Section for possible values.
RESPONSEDESCRIPTION	String	The text describing the outcome of the transaction.
TRANSACTIONTYPE	String	Transaction Type
CARDTYPE	String	Card Type

## PAYMENT PAGE CUSTOMIZATION

EdgeExpress gives the integrator great flexibility over the experience of the Payment Page. The following “Advanced Request Objects” include the fields for customization. Please note that you may pass these parameters through the integration with every transaction using XML objects and fields. Also note that some request objects are not applicable to these customization fields.

### POS Device Element Configuration

The following request fields can be submitted if using a KBE or KEYED method to process transactions. They must be nested within <HOSTPAYSETTING>, <POSDEVICE> as demonstrated in the following snippet:

```
<HOSTPAYSETTING>
  <POSDEVICE>
    <TYPE> KEYED </TYPE>
  </POSDEVICE>
</HOSTPAYSETTING>
```

POS Device Element Configuration		
Payment Page Object	Format	Description/Defaults
TYPE	Explicit	KBE KEYED
MODEL	Explicit	The model of the POS device used for the transaction. <ul style="list-style-type: none"> <li>generic_msr_clr_kbe</li> <li>idtech_msr_clr_kbe</li> <li>magtek_dynamag_kbe</li> <li>magtek_ipad_kbe</li> <li>magtek_bullet_kbe</li> </ul>

### Payment Page Element Customization

The following paypage fields can be customized within a given set of values, as described below. These fields and their values must be nested within <HOSTPAYSETTING> as demonstrated in the following sample snippet for setting the expiration date format.

```
<HOSTPAYSETTING>
  <EXPIRYDATEFORMAT> 0 </EXPIRYDATEFORMAT>
</HOSTPAYSETTING>
```

Payment Page Element Customization		
Payment Page Object	Format	Description/Defaults
EXPIRYDATEFORMAT	Numeric	0 = Dropdown (default) [MM] [YYYY] 1 = INPUT [MM] [YYYY] 2 = INPUT [MM/YYYY]

Payment Page Element Customization		
Payment Page Object	Format	Description/Defaults
BILLINGNAMEFORMAT	Boolean	Default = true true = first and last name are separated false = first and last name are separated
CARDBRAND	String	Displays card brand logos on the payment page, displayed in order specified. The "NULL" option will remove all card brand images. <ul style="list-style-type: none"> <li>VISA</li> <li>MC</li> <li>AMEX</li> <li>DISCOVER</li> <li>JCB</li> <li>DINER</li> <li>NULL</li> </ul>
ACHDISCLOSUREMESSAGE	String	Default= Default = Your Authorization   \ The payment amount of charge_total will be electronically debited from your account.\nI authorize merchant_name to electronically debit the account listed above for the amount of this purchase. If this item is dishonored or returned for any reasons, I authorize an additional debit to the account listed above for \$25.00 or the maximum amount allowed by law, whichever is greater. By clicking on the button below, I agree to the terms of this agreement and authorize this purchase.   \ Click the <i> payment_button </i> button to complete the transaction. Remember to record this transaction in your check register. When your transaction has been completed successfully you will have the option to print, save, or email your receipt for this purchase.  
AUTOSUBMISSION	Boolean	Default = false If using KBE-based entry, sets whether the page is submitted automatically once track data has been submitted

Payment Page Element Customization		
Payment Page Object	Format	Description/Defaults
DISABLEFRAMING	Boolean	Default = true. true = Disallows rendering the paypage in an iFrame False = Allows rendering the PayPage in an iFrame
LOCALE	String	Default = en en_US = English (American) fr_CA = French (Canadian) en = English fr = French

## Payment Page Fields and Labels

Each object in the table below can include the following fields, as described in the table:

### label

Including the field “label” will override the label with a string value of what shows up on the Payment Page.

### edit

Including the field “edit” set to “true” will let EdgeExpress know that you want to allow the Consumer or Clerk to edit the information on the Payment Page.

### required

Including the field “mandatory” set to “true” will let EdgeExpress know that you are requiring the request parameter to be present in the transaction.

### visible

Including the field “visible” set to “true” will let EdgeExpress know that you want the request field visible on the Payment Page.

All payment page customization objects and fields must be nested within <HOSTPAYSETTING>, <CUSTOMIZATION>, and <PAGE> as demonstrated in the below sample snippet for customizing the EXPIRYDATE object.

```
<HOSTPAYSETTING>
  <CUSTOMIZATION>
    <PAGE>
      <EXPIRYDATE>
        <LABEL>EXPIRYDATE</LABEL>
        <EDIT>TRUE</EDIT>
        <REQUIRED>TRUE</REQUIRED>
        <VISIBLE>TRUE</VISIBLE>
      </EXPIRYDATE>
    </PAGE>
  </CUSTOMIZATION>
</HOSTPAYSETTING>
```

### Payment Page Fields and Labels

Payment Page Object	Customization Fields Allowed	Description/Defaults
EXPIRYDATE	EDIT LABEL REQUIRED	Default = Expiry Date (MM/YYYY)
BILLINGCUSTOMERTITLE	EDIT LABEL REQUIRED VISIBLE	Default = true Default = Customer Title Default = false Default = true

Payment Page Fields and Labels		
Payment Page Object	Customization Fields Allowed	Description/Defaults
BILLINGFIRSTNAME	EDIT LABEL REQUIRED VISIBLE	Default = true Default = First Name Default = false Default = true
BILLINGMIDDLENAME	EDIT LABEL REQUIRED VISIBLE	Default = true Default = Middle Name Default = false Default = true
BILLINGLASTNAME	EDIT LABEL REQUIRED VISIBLE	Default = true Default = Last Name Default = false Default = true
BILLINGCOMPANY	EDIT LABEL REQUIRED VISIBLE	Default = true Default = Company Name Default = false Default = true
BILLINGADDRESSONE	EDIT LABEL REQUIRED VISIBLE	Default = true Default = Address One Default = false Default = true
BILLINGADDRESSTWO	EDIT LABEL REQUIRED VISIBLE	Default = true Default = Address Two Default = false Default = true
BILLINGCITY	EDIT LABEL REQUIRED VISIBLE	Default = true Default = City Default = false Default = true
BILLINGSTATEORPROVINCE	EDIT LABEL REQUIRED VISIBLE	Default = true Default = State or Province Default = false Default = true
BILLINGCOUNTRYCODE	EDIT LABEL REQUIRED VISIBLE	Default = true Default = Country Default = false Default = true

Payment Page Fields and Labels		
Payment Page Object	Customization Fields Allowed	Description/Defaults
BILLINGPOSTALCODE	EDIT LABEL REQUIRED VISIBLE	Default = true Default = Postal Code Default = false Default = true
INVOICENUMBER	EDIT LABEL REQUIRED VISIBLE	Default = false Default = Invoice Number Default = false Default = false
PURCHASEORDERNUMBER	EDIT LABEL REQUIRED VISIBLE	Default = false Default = PO Number Default = false Default = false
ALIAS	LABEL VISIBLE	Default = Save Card Data? Default = false
CREDITCARDVERIFICATIONNUMBER	EDIT LABEL REQUIRED VISIBLE	Default = true Default = CVV Default = true Default = false
CHECKNUMBER	LABEL REQUIRED VISIBLE	Default = Check Number Default = true Default = false  Applicable only for check transactions. Please note that if you are supporting Parallel Payments, it's recommended that you set these request fields to false, and that you submit a unique check_number for each parallel transaction.
AMOUNT	EDIT LABEL VISIBLE	Default = false Default = "Amount" Default = true  The amount of the transaction
CREDITCARDNUMBER	LABEL	Default = "Card Number" The credit card number used for the transaction.

Payment Page Fields and Labels		
Payment Page Object	Customization Fields Allowed	Description/Defaults
ROUTINGNUMBER	LABEL VISIBLE	Default = Routing Number  Applicable only for check transactions.
ACCOUNTNUMBER	LABEL VISIBLE	Default = Account Number  Applicable only for check transactions.
SUBMITBUTTON	LABEL	Default = Make Payment
CANCELBUTTON	LABEL VISIBLE	Default = Cancel Default = true
ORDERINFO	LABEL VISIBLE	Default= Order Information Default = true
CARDINFO	LABEL VISIBLE	Default = Card Information Default = true
CUSTOMERINFO	LABEL VISIBLE	Default = Customer Information Default = true The label for the customer information section.
RESPONSECODE	LABEL VISIBLE	Default= Primary Response Code: Default = true Applicable on ResultPage.
RESPONSECODETEXT	LABEL VISIBLE	Default = Response Message: Default = true Applicable on ResultPage.
REQUESTEDAMOUNT	LABEL VISIBLE	Default = Requested Amount Default = true Applicable on ResultPage.
APPROVEDAMOUNT	LABEL VISIBLE	Default = Approved Amount: Default= true Applicable on ResultPage.
ORDERID	LABEL VISIBLE	Default = Order ID: Default= true Applicable on ResultPage.



Payment Page Fields and Labels		
Payment Page Object	Customization Fields Allowed	Description/Defaults
PAYPAGETRANSACTIONTYPE	LABEL VISIBLE	Default = Transaction Type: Default = true
BANKAPPROVALCODE	LABEL VISIBLE	Default = Bank Approval Code: Default = true Applicable on ResultPage.
CLERKID	EDIT LABEL REQUIRED VISIBLE	Default = false Default = Clerk ID Default = false Default = false
USERDEFINEDONE	EDIT LABEL REQUIRED VISIBLE	Default = false Default = User Defined Field 1 Default = false Default = false
USERDEFINEDTWO	EDIT LABEL REQUIRED VISIBLE	Default = false Default = User Defined Field 2 Default = false Default = false
USERDEFINEDTHREE	EDIT LABEL REQUIRED VISIBLE	Default = false Default = User Defined Field 3 Default = false Default = false
USERDEFINEDFIELDSTITLE	LABEL	Default = User Defined Fields Only appears if the user defined fields are visible.
ORDERDESCRIPTION	EDIT LABEL REQUIRED VISIBLE	Default = Order Description Default = false Default = false Default = false

## Payment Page Branding

EdgeExpress gives the integrator great flexibility over the experience of the Payment Page. The following “Payment Page Branding – Body” table includes the fields for branding of the payment page. Please note that you may pass these parameters through the integration with every transaction using XML objects and fields. Also note that some request objects are not applicable to these branding fields. Each field in the table below can include the XML-formatted values to format paypage branding.

### Payment Page Branding - Body

All body branding fields must be nested within <HOSTPAYSETTING>, <CUSTOMIZATION>, <BRANDING>, <BODY> as demonstrated in the below sample snippet for customizing the payment page branding.

```
<HOSTPAYSETTING>
  <CUSTOMIZATION>
    <BRANDING>
      <BODY>
        <BACKGROUND-COLOR>#FFFF00</BACKGROUND-COLOR>
        <COLOR>#0F0F0F</COLOR>
        <FONT-FAMILY>TIMES NEW ROMAN, HELVETICA-NEUE,HELVETICA,ARIAL,SANS-SERIF;</FONT-FAMILY>
      </BODY>
    </BRANDING>
  </CUSTOMIZATION>
</HOSTPAYSETTING>
```

### Payment Page Branding – Body

Name	Description
FONT-FAMILY	Default = Times New Roman, helvetica-neue, helvetica, arial, sans-serif The font family for the text on the payment page.
FONT-SIZE	Default = 12px The font size for the text on the payment page.
INPUT-FIELD-HEIGHT	Default = 20px The input and drop-down list height.
COLOR	Default = #0F0F0F The color of the text for the payment page.
BACKGROUND-COLOR	Default = #DDDDFF The background color of the payment page.

## Payment Page Branding - Button

All button branding fields must be nested within <HOSTPAYSETTING>, <CUSTOMIZATION>, <BRANDING>, <BTN> as demonstrated in the below sample snippet for customizing the payment page branding.

```
<HOSTPAYSETTING>
  <CUSTOMIZATION>
    <BRANDING>
      <BTN>
        <BACKGROUND-COLOR>#FFFF00;</BACKGROUND-COLOR>
        <COLOR>#0F0F0F;</COLOR>
        <FONT-SIZE>12PX;</FONT-SIZE>
      </BTN>
    </BRANDING>
  </CUSTOMIZATION>
</HOSTPAYSETTING>
```

### Payment Page Branding – Button

Name	Description
COLOR	Default = #FFFFFF The button color on the payment page.
WIDTH	Default = 100px The button width on the payment page.
HEIGHT	Default = 35px The button height on the payment page.
BACKGROUND-COLOR	Default = #004772 The button background color for the payment page.
BORDER-TOP-LEFT-RADIUS	Default = 2px The top left radius of the button on the payment page.
BORDER-TOP-RIGHT-RADIUS	Default = 2px The top right radius of the button on the payment page.
BORDER-BOTTOM-RIGHT-RADIUS	Default = 2px The bottom right radius of the button on the payment page.
BORDER-BOTTOM-LEFT-RADIUS	Default = 2px The bottom left radius of the button on the payment page.
BORDER-STYLE	Default = solid The border style of the button on the payment page.

Payment Page Branding – Button	
Name	Description
BORDER-WIDTH	Default = solid The border width of the button on the payment page.
BORDER-COLOR	Default = #005F99 The border color of the button on the payment page.
FONT-SIZE	Default = 14px The size of the font for the “Make Payment” button on the payment page.

### Payment Page Branding – Special CSS

The field to set the section header font size must be nested within <HOSTPAYSETTING>, <CUSTOMIZATION>, <BRANDING>, <SPECIALCSS> as demonstrated in the below sample snippet.

```
<HOSTPAYSETTING>
  <CUSTOMIZATION>
    <BRANDING>
      <SPECIALCSS>
        <SECTION-HEADER-FONT-SIZE>24px</SECTION-HEADER-FONT-SIZE>
      </SPECIALCSS>
    </BRANDING>
  </CUSTOMIZATION>
</HOSTPAYSETTING>
```

Payment Page Branding – Special CSS		
Name	Format	Description
SECTION-HEADER-FONT-SIZE	CSS	Default = 24px. The section header font size.

## Payment Page Branding – Special CSS2

The following fields to set paypage other values for the paypage must be nested within <HOSTPAYSETTING>, <CUSTOMIZATION>, <BRANDING>, <SPECIALCSS2> as demonstrated in the below sample snippet.

```
<HOSTPAYSETTING>
  <CUSTOMIZATION>
    <BRANDING>
      <SPECIALCSS2>
        <LINE-SPACING-SIZE>1px</LINE-SPACING-SIZE>
      </SPECIALCSS2>
    </BRANDING>
  </CUSTOMIZATION>
</HOSTPAYSETTING>
```

### Payment Page Branding – Special CSS2

Name	Format	Description
LINE-SPACING-SIZE	CSS	Default = 1px. The space between each input field.
INPUT-FIELD-HEIGHT	CSS	Default = 20px. The input and drop-down list height.

## APPENDIX A - RESPONSE CODES

### EdgeExpress Response Codes

Code	Verbiage	Description
000	Approval	The transaction was approved.
001	Decline	The transaction was declined, no specific decline reason was given.
002	Call	A Voice Authorization is requested.
003	Success	Batch settled successfully.
004	Inquiry	Batch inquiry successful.
005	Alias Success	A payment account (e.g. credit card) Alias was created successfully and the number has been stored on the gateway for future use.
006	Session has Timed Out	Response code indication that the requested transaction has timed out.

EdgeExpress Response Codes		
Code	Verbiage	Description
007	Partial Approval	Transaction was approved, but not for the entire amount. This response is only possible with "Partial Approval Support" is enabled, which is mandated in many circumstances. The "Approved Amount" should be returned with the response, and the balance may need to be paid with another card or other form of tender.
008	Report Complete	This is the standard response for a successful report retrieval from the EdgeExpress Gateway.
009	Auto Decline	The transaction was declined due to an AVS or CSC mismatch. The AVS (Address Verification System, house number and/or ZIP code verification for keyed transactions) or CSC (Card Security Code, also known as the CVV, CVC or CID) is set to "required" for keyed transactions at the EdgeExpress Gateway, but the value(s) entered did not match the value(s) on file. The reason for the decline may be specified.
010	Invalid Expiration Date	Expiration date entered is incorrect.
011	Check Submitted	This is the standard response for a successful Check Sale or Check Credit transaction.
012	Check Approval	This is the standard response for an approved Check Verification transaction.
013	Check Decline	This is the standard response for a declined Check Verification transaction.
014	Check Warning	This message can indicate that the Check Verification service is currently unavailable for the configured EdgeCheck Processing Account. The reason for the warning may be specified.
015	Check Error	This occurs when there is a physical problem with the check and the check can not be read.
016	Check Transaction Amount Limit Exceeded	The amount attempted on the Check Sale or Check Credit transaction exceeds the maximum amount configured on the EdgeCheck Processing Account. This does not pertain to the "Maximum Charge Amount" setting in the XCharge Server Setup.
017	Check Daily Amount Limit Exceeded	The total amount of all the transactions for that day has exceeded the pre-set limit configured on the EdgeCheck Processing Account. The amount limit can be adjusted via the DCS ACHeck21 Global Gateway.
018	Check Monthly Amount Limit Exceeded	The total amount of all the transactions for that month has exceeded the pre-set limit configured on the EdgeCheck Processing Account. The amount limit can be adjusted via the DCS ACHeck21 Global Gateway.

EdgeExpress Response Codes		
Code	Verbiage	Description
019	RDFI Not Qualified To Participate	The bank on which the check was written (as indicated by the Routing Number) cannot participate in the ACH system. The most common reasons for this response are: using a test check, or the check is from an institution that is no longer in business.
020	Corporate Customer Advises Not Authorized	This response code indicates that the check is written on a corporate account and is therefore not eligible to be processed via ACH. Note that this is an ACH-only error - if an image is available, the item could be processed via Check21.
021	Check Not Previously Authorized	Indicates that the attempted check transaction cannot be completed until a successful Check Verification transaction is completed first.
022	Ineligible Transaction For ACH Network	The check that was entered can not be processed through the ACH network.
024	Recurring Success	Standard response for an approved Recurring Payment transaction.
031	Preverification Failure	The value Address, CSC, or ZIP code submitted with the Pre-Transaction Verification transaction did not match the value on file.
032	Zero Dollar Auth Approval	A CreditAuthTransaction with an amount of zero was approved.
100	OTK Success	This is a standard approved response for a HPF Results Call.
101	Expired Without Approval	Expired Without Approval   This decline response can indicate that the HPF timed out without Approval, the OTK was never launched, or the OTK is invalid.
102	Pending	This response can be returned when the HPF Results Call is polled, but no approval or decline has been issue by the EdgeExpress Gateway yet.
103	Transaction Cancelled	Indicates that the transaction was canceled by the user. Only applies to spec version 3.7 or higher.
200	User Data Retrieved	This is the standard response for a successful QueryUser request.
201	Security Questions Retrieved	This is the standard response for a successful GetSecurityQuestions request.
202	User Credentials Updated	This is the standard response for a successful UpdateUserCredentials request.
203	Password Reset	This is the standard response for a successful ResetPassword request.
204	User ID Emailed	This is the standard response for a successful EmailUserID request.

EdgeExpress Response Codes		
Code	Verbiage	Description
205	Company Nickname Set	This is the standard response for a successful SetCompanyNickname request.
206	Terminal Nickname Set	This is the standard response for a successful SetTerminalNickname request.
207	Invalid User Credentials	The UserID and/or Password sent are invalid. After 5 failed attempts with the same User ID, the user will be "locked out" and their password will have to be reset.
208	User Locked Out	The User ID sent has been attempted with the wrong password too many times (5) and must be reset.
209	Security Question / Answer / Password Not Set	The User ID sent is not fully configured. The ResetPassword and/or UpdateUserCredentials function can be used to fix this.
210	Password Expired	The password for the User ID sent has expired. The UpdateUserCredentials function can be used to fix this.
211	New Password Must Differ From Previous Four	Returned on UpdateUserCredentials transactions when the "NewPassword" field being sent matches a password used recently for the User ID selected.
212	Temporary Password From Reset Needs To Be Updated	Password Reset emails include a temporary password that can be used to update the password for the selected User ID. This temporary password cannot be used to process transactions, except when using UpdateUserCredentials to set the "NewPassword" field.
214	Receipt Returned	This is the standard response for a successful GetReceipt request.
215	Receipt IDs Returned	This is the standard response for a successful GetReceiptIDs request.
800	Parsing Error	Unable to parse the XML request sent.
801	Maximum Request Data Exceeded Error	The XML request exceeds the 2048-byte maximum size.
802	Duplicate Field Error	The XML request had more than one copy of a particular field. The field causing the error may be specified.
803	Improper DLL Error	Unrecognized DLL name. This can be caused by a wrong URL entered into the "Server Location" setting under XCharge Server Setup, Credit Cards, Connection.
804	Specification Version Error	XML error, the Specification Version field is set incorrectly.



EdgeExpress Response Codes		
Code	Verbiage	Description
805	Authentication Error	The XWeb ID, Auth Key or Terminal ID fields are incorrect (check for leading and trailing spaces if they appear to match those on file). The field causing the error may be specified.
806	Production Merchant Set Up Error	The Mode was incorrectly sent. This can happen when trying to process on the Production server with a Development or Test Mode Processing Account.
807	Test Merchant Set Up Error	The Mode was incorrectly sent. This can happen when trying to process on the Test server with a Development or Production Mode Processing Account.
808	Development Merchant Set Up Error	The Mode was incorrectly sent. This can happen when trying to process on the Development server with a Production or Test Mode Processing Account.
809	Required Field Not Sent Error	A field that is required for this transaction type was not sent. The field causing the error may be specified.
810	Inconsistent Conditional Field Error	A field that does not have to be sent was sent in the wrong context. The field causing the error may be specified.
811	Improper Field Data Error	A field sent to the EdgeExpress Gateway was not formatted correctly. This could pertain to Processing Account Information configured in XCharge or BMS, or card information. The field causing the error may be specified.
812	Unrecognized Name / Tag Error	The XML tag sent is not in the API.
813	Duplicate Transaction Error	A transaction was run for the same amount on the same card within a certain time limit. The duplicate checking time is set on the EdgeExpress Gateway, usually between 1 and 60 minutes.
814	Invalid Reference Error	The Transaction ID used for a Void, Return, etc. is invalid.
815	Transaction Already Voided	The Transaction ID used for a Void was already voided.
816	Transaction Already Captured	The Transaction ID used for a Capture of an Authorized charge was already used and the transaction has been Captured.
817	Empty Batch	The batch is empty and cannot settle. You cannot settle an empty batch.
818	Merchant Locked For Settlement	The Processing Account is in the process of being settled/batched. Wait a moment and try again.
819	Merchant Locked for Maintenance	The Processing Account is locked for database or server maintenance. Wait a moment and try again.

EdgeExpress Response Codes		
Code	Verbiage	Description
820	Temporary Service Outage - Retry Transaction	The EdgeExpress Gateway itself may be down. Wait a moment and try again.
821	Processing Host Unavailable	Certain back end account parameters may not be set correctly. Have the account settings checked. Specifically, check the TSYs Vital Hierarchy Values.
823	Invalid Account Data	A field sent to the EdgeExpress Gateway appears invalid (correctly formatted but not on file). This could pertain to Processing Account Information configured in XCharge or BMS, or card information. The field causing the response may be specified.
824	Industry Mismatch Error	The Processing Account is configured with the incorrect Market Type. This can occur if XCharge or BMS is not configured with the same Market Type as the EdgeExpress Gateway.
825	Rejected	Internal support only. Reserved for Fraud, Not currently implemented.
827	Invalid Card Type	The account number entered is not valid for the card type entered. If Card Type is Visa, then the account number must be for a Visa account.
828	Card Type Not Supported	The card type (Visa, Mastercard, American Express, etc.) for the attempted transaction is not enabled at the EdgeExpress Gateway.
829	Card Code Required	The Card Security Code (CSC, also known as the CVV, CVC or CID) is set to "required" for keyed transactions at the EdgeExpress Gateway, but was not sent.
830	Address Required	The address (house number, part of the Address Verification System) is set to "required" for keyed transactions at the EdgeExpress Gateway, but was not sent.
831	ZIP Code Required	The ZIP code (part of the Address Verification System) is set to "required" for keyed transactions at the EdgeExpress Gateway, but was not sent.
832	Encoded Data Format Error	Encoded format of check image file could not be read or was not submitted when expected.
833	Check Services Image Error - MICR and Amount cannot be read	The attempted paper check scan failed. When this occurs you should have the option to manually enter the check information or rescan the check.
834	Check Services Image Error - MICR cannot be read	The attempted paper check scan failed. When this occurs you should have the option to manually enter the check information or rescan the check.

EdgeExpress Response Codes		
Code	Verbiage	Description
835	Check Services Image Error - Amount cannot be read	The attempted paper check scan failed. When this occurs you should have the option to manually enter the check information or rescan the check.
838	Email Service Error	The EdgeExpress Gateway attempted to send an email, possibly for a password reset request, but the attempt failed.
842	Invalid Reference Error	Response code returned when the referenced transaction type does not match.
900	TSYS Error	Error thrown by Processor TSYS: the EdgeExpress Gateway is setup correctly, but the card or other value submitted is incorrect. SERV NOT ALLOWED usually indicates a Decline, Failure CV indicates the Card Type is not supported (e.g. AMEX needs to be enabled), and Failure HV indicates an error on the account setup in the EdgeExpress Gateway.
901	Processor Error	Can be Global or TSYS errors (900 Global Payments Error: or 900 TSYS Error:) are returned on transactions if a processor setting is not configured correctly. This can occur if the card or transaction type is not enabled on the Processing Account at the processor end.
903	DCS Error	These errors are returned on transactions if a processor setting is not configured correctly. This can occur if the transaction type is not enabled on the EdgeCheck Processing Account at the processor end. The reason for the error may be specified (e.g. NoValidationActionsSetup for Check Verification).

## APPENDIX B - ADDRESS VERIFICATION RESPONSE CODES

AVS Response Codes			
For U.S. Credit Cards		For Non-U.S. Credit Cards	
Code	Description	Code	Description
A	Match - street address only, not ZIP code.	B	Match - street address only, no postal code.
E	Error	C	No match - street address and postal code.
M	Match - street address and ZIP code.	D	Match - street address and postal code.
N	No match - street address and ZIP code.	F	Match - street address and postal code (UK only).
R	Retry, system unavailable or timed out.	G	Global Unavailable

S	Service not supported.	I	International Unavailable
U	AVS Unavailable	M	Match - street address and postal code.
W	Match - 9-digit ZIP code, not street address.	P	Match - postal code only, not street address.
X	Match - street address and 9-digit ZIP code.		
Y	Match - street address and 5-digit ZIP code.		
Z	Match - 5-digit ZIP code, not street address.		

## APPENDIX C - CREDIT CARD VERIFICATION RESPONSE CODES

CSC Response Codes for All Credit Cards			
Code	Description	Code	Description
M	Match	U	Unavailable
N	No Match	S	Service Not Supported
P	Not Processed	X	No Response

## APPENDIX D - STATE VALUES

QUERY PAYMENT	
State Value	Description
IN_PROGRESS	A payment has been created but a response has not yet been received from the processor.
APPROVED	A payment has been approved by the processor. For example, the transaction is in an AUTH state.
CAPTURED	A payment has been approved by the processor and flagged for settlement. For example, the transaction was a CAPTURE or a SALE, and is currently in the batch to be settled.
CLOSED	A payment has been approved and settled by the processor. For example, the batch is closed and only a CREDIT can be performed.
DECLINED	A payment has been financially declined by the processor.
VOIDED	A payment has been voided by the merchant.

## APPENDIX E – DECLINE MINIMIZER

As a subset of the OpenEdge Tokenization Vault, Decline Minimizer offers the ability to automatically retrieve account updates from Visa, Mastercard and Discover. There are some minimal requirements for Integrators to be certified for this service which are listed below, and if you have any questions, please feel free to contact

1. From the initial enrollment request and response data, store the Payer Identifier, Last 4 digits of the Card Number and Expiration Date in the Customer Profile.
2. For any subsequent payments using the Payer Identifier, evaluate the response data for the masked card number, and Expiration Date, and if there is a different value from what you currently have stored in the database, update your records with the new values so that your records become in sync with the OpenEdge Data Vault. OpenEdge also recommends that you record a TimeStamp of when your records were updated so that the End User knows that a card was updated. Updated information can include the following information:
  - Last four digits from the masked card number, returned as “MASKEDCARDNUMBER”
  - Expiration month returned as “EXPMONTH”
  - Expiration year returned as “EXPYEAR”
3. When a cardholder asks a Merchant to delete their card on file, Integrators are required to send us a transaction request to close the Payer Identifier in the data vault. This is to prevent future updates or transactions against the Payer Identifier and you may do this by performing a “TransactionType = ALIASDELETE”.

## APPENDIX F – ZERO DOLLAR AUTHORIZATIONS

### **\$0.00 Authorizations (AVS Only)**

Also referred to as an “AVS-only” transaction. Is used to test account validity. The difference is that with a \$0.00 authorization, \$1.00 ghost authorizations no longer appear in the cardholders billing statement, eliminating confusion. Visa’s new Zero Dollar or Zero Dollar Floor Limit Account Verification program will include Address Verification (AVS) and CVV verification. Visa would prefer to see merchants using the \$0.00 Account Verification Program, for which they will charge a transaction fee, and discontinuing \$1.00 Authorizations.



## CHANGE HISTORY

Change History			
Version	Date	Author	Reason for Update
1.0	03/28/2019	NSC	<p>Corrected the following fields:</p> <ul style="list-style-type: none"> <li>• BACKGROUNDCOLOR &gt; BACKGROUND-COLOR</li> <li>• FONTFAMILY &gt; FONT-FAMILY</li> <li>• FONTSIZE &gt; FONT-SIZE</li> <li>• INPUTFIELDHEIGHT &gt; INPUT-FIELD-HEIGHT</li> <li>• BACKGROUNDCOLOR &gt; BACKGROUND-COLOR</li> <li>• TRANSACTIONTYPE (paypage customization field) &gt; PAYPAGETRANSACTIONTYPE\</li> <li>• BUTTON (paypage customization object) &gt; BTN</li> </ul> <p>Added code snippets for the following request types:</p> <ul style="list-style-type: none"> <li>• Postback URL</li> <li>• Return URL</li> <li>• Paymet Page Element Customization</li> <li>• Paymnet Page Return Options</li> <li>• Payment Page Branding – Special CSS</li> </ul> <p>Corrected Test and Production URLs for non-payment-page requests. Added POS Device request fields. Added list of supported POS devices.</p>
1.0	03/10/2019	NSC	Initial release.