

# EdgeExpress

API VERSION 2

EDGEEXPRESS VERSION 2.6

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## Overview

EdgeExpress encapsulates all of the logic to process transactions and format the receipts removing the need for point of purchase applications to certify for EMV transaction processing. EdgeExpress allows point of purchase applications to control the configured PIN Pad device for other functions based on device support, such as signature capture and customer prompts. Multiple devices are supported by EdgeExpress, and the point of purchase application is isolated from the complexities of communicating with the configured device.

## System Requirements

### Supported Operating Systems

The following Windows operating systems are supported with EdgeExpress.

- Windows 7
- Windows 8
- Windows 8.1
- Windows 10
- Windows Server 2008
- Windows Server 2012
- Windows Server 2016

### Microsoft .NET Framework Requirements

Microsoft .NET framework 4.5 or higher is required to use EdgeExpress.

## EdgeExpress PC Request Process

The EdgeExpress PC request process flow:

- Point of Purchase application calls the blocking Execute() method with the request string in the requestParameters parameter.
- EdgeExpress PC processes the request.
- EdgeExpress PC returns the result of the request in the responseXML parameter.
- Point of Purchase application parses the request response and takes appropriate actions.

## EdgeExpress PC Interface

EdgeExpress PC supports a single function interface with an input and output string parameter. EdgeExpress PC requests are formatted as XML format. The output is returned as XML. The Execute() method is used for this format.

### .Net Integration

EdgeExpress PC is a .Net library and supports direct .Net integration to the EdgeExpress PC library. A single interface is provided that accepts the transaction and function requests in XML format. Results are returned as XML.

- Namespace: XCharge.XpressLink2
- Object: XLEmv
- Method: Void Execute(string requestParameters, out string responseXML);

Please refer to the EdgeExpress PC sample applications provided in the EdgeExpress PC SDK for code examples related to integrating to the .Net library.

### COM Integration

EdgeExpress PC also exposes a legacy COM interface, allowing integration to EdgeExpress PC using non-.Net development environments. A single interface is provided that accepts the transaction and function requests in XML format.

- COM Object: XCharge.XpressLink2.XLEmv
- Method: Execute(BSTR parameterString/\*[in]\*/, BSTR\* response/\*[out]\*/);

### XML Format

A simple XML format is used for XML request strings. Only one transaction request is allowed in each XML request string. All fields must provide a value.

Example:

```
<REQUEST>
  <Field1>Value</Field1>
  <Field2>Value</Field2>
</REQUEST>
```

## EdgeExpress Cloud Request Process

The EdgeExpress Cloud Request Process Flow

- Point of Purchase application calls RCM passing in the request string in the xl2Parameters parameter.
- EdgeExpress Cloud processes the request.
- EdgeExpress Cloud returns the results of the request.
- Point of Purchase application parses the request response and takes appropriate actions.

## EdgeExpress Cloud Interface

EdgeExpress Cloud uses request data which contains the parameters for the transaction you are sending to the RCM URL. Use an HTTP GET request to receive a response. When creating the GET request, add the content type (application/xml, or application/json) to the request header you would like to use for the response. If you do not add a content type, it will default to a JSON format response. If your response is in JSON format, look under the RCMRESPONSE tag for response data. If your response is in XML format, look under the XMLRCMRESPONSE tag for response data.

### RCM URL Example

- `https://localsystem.paygateway.com:21113/RcmService.svc/Initialize?callback=jsonpResponse&xl2Parameters=<REQUEST><Field1>Value1</Field1><Field2>Value2</Field2></REQUEST>`"

### XML Format

A simple XML format is used for XML request strings. Only one transaction request is allowed in each XML request string. All fields must provide a value.

Example:

```
<REQUEST>
  <Field1>Value</Field1>
  <Field2>Value</Field2>
</REQUEST>
```

## EdgeExpress Transaction Requests

The following transaction types are available using either EdgeExpress PC, or EdgeExpress Cloud, and are set as options using the **TRANSACTIONTYPE** parameter. Details regarding each transaction type can be found below.

### NOTE:

A length of "Variable" indicates that the length may vary depending on the value that is sent with the parameter.

## BATCHSETTLE Transaction Request Fields

The BATCHSETTLE transaction type closes the current host batch.

BATCHSETTLE Transaction Request Fields				
Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	"BATCHSETTLE"
XWEBAUTHKEY	Alphanumeric	32	Yes	XWeb private key assigned by XWeb. Merchant must present the key to authenticate itself to the Gateway.
XWEBID	Numeric	12	Yes	XWebID authorization credential. This is the ID given to the merchant once they have been enrolled in the system.
XWEBINDUSTRY	Explicit	Variable	No	"RETAIL", "RESTAURANT", "ECOMMERCE", or "MOTO"
XWEBTERMINALID	Numeric	8	Yes	XWebTerminalID authorization credential.



## SALE Transaction Request Fields

User can send this to initiate a Sale transaction. EE will prompt the cardholder and the merchant for Credit or Debit.

SALE Transaction Request Fields				
Field	Value	Length	Required	Description
AMOUNT	Numeric	1-8	Yes	0.01-999999.99. Transaction amount. Does not include cash back or tip amount.
TRANSACTIONTYPE	Explicit	Variable	Yes	"SALE".
XWEBAUTHKEY	Alphanumeric	32	Yes	XWeb private key assigned by XWeb. Merchant must present the key to authenticate itself to the Gateway.
XWEBID	Numeric	12	Yes	XWebID authorization credential. This is the ID given to the merchant once they have been enrolled in the system.
XWEBINDUSTRY	Explicit	Variable	No	"RETAIL", "RESTAURANT", "ECOMMERCE", or "MOTO"
XWEBTERMINALID	Numeric	8	Yes	XWebTerminalID authorization credential.
SUPPRESSUI	Explicit	Variable	No	"True" or "False". Suppresses desktop transaction status windows. If not sent, defaults to "False".
SUPPRESSUIPROMPTS	Explicit	Variable	No	"True" or "False". Only suppresses Credit or Debit, Yes/No and Signature confirmation windows. If not sent, defaults to "False".
PROMPTBATTERYSTATUS	Explicit	Variable	No	"True" or "False". This is the battery life status of the Bluetooth device. If not sent, defaults to "False".
CLERK	Alphanumeric	0-20	No	A merchant assigned identifier that can be used to track the person who ran the transaction.

SALE Transaction Request Fields				
Field	Value	Length	Required	Description
ADDRESS	Alphanumeric	0-50	No	Cardholder's address for AVS.
ZIP	Alphanumeric	0-20	No	Cardholder's ZIP code for AVS. Hyphens symbols are acceptable.
INVOICENO	Alphanumeric	0-25	No	Provides an invoice number to the transaction.
RECEIPTCOPYLABEL	Explicit	13	No	"CUSTOMER_COPY", "MERCHANT_COPY", or "BOTH". Copy Label for the receipt.
RECEIPTADDRESS	Alphanumeric	0-40	No	Address printed on receipt.
RECEIPTLINEITEMS	Alphanumeric	0-8000	No	Line items printed on receipt.
RECEIPTPHONE	Alphanumeric	0-40	No	Phone number printed on receipt.
RECEIPTPOLICY	Alphanumeric	0-4000	No	Policy printed on bottom of receipt. Field can be submitted multiple times for a cumulative character limit of 4,000.
RECEIPTSTORENAME	Alphanumeric	0-40	No	Store name printed on receipt.
RECEIPTFOOTER	Alphanumeric	0-40	No	Footer printed on the receipt.
RECEIPTHEADER	Alphanumeric	0-4000	No	Header printed on the receipt. RECEIPTHEADER supersedes what is specified in RECEIPTADDRESS, RECEIPTSTORENAME, and RECEIPTPHONE, if passed.
ALLOWDUPLICATES	Explicit	Variable	No	Enables duplicate transactions. Duplicates are disabled by default.
DEFAULTLANGUAGE	Alphanumeric	Variable	No	"English" or "French". Default language for EMV or Interac transactions. Language is

SALE Transaction Request Fields				
Field	Value	Length	Required	Description
				defaulted to “English” if no default language is set.
TIPSUPPORT	Numeric	1	No	0 = “Disabled”, 1 = “Enabled”. Tip prompting support in EdgeExpress.
PROMPTSIGNATURE	Alphanumeric	1	No	“True” or “False”. Prompts for signature using a signature capture device.
TITLE	Alphanumeric	Variable	No	String value to display on PIN Pad.
DISPLAYCAPTUREDSIGNATURE	Alphanumeric	1	No	“True” or “False”. Causes a signature acquired with the PPDPROMPTSIGNATURE transaction to be displayed on the screen to the clerk after it has been entered by the customer.
SIGNATUREFILEFORMAT	Explicit	Variable	No	Determines the returned signature file type if the request specifies BMP or PNG.
RETURNSIGNATUREFORMAT	Explicit	Variable	No	Determines if the signature image is returned as BASE64, FILEPATH, or FILEPATH_BASE64.
RECURRING	Explicit	Variable	No	“True” or “False”. Indicates this is a recurring transaction.
ALIAS	Alphanumeric	Variable	Conditional	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).
DESTINATIONZIP	Numeric	1-20	No	Destination postal code for a Purchase Card transaction. Hyphens are acceptable; all other symbols are removed.

SALE Transaction Request Fields				
Field	Value	Length	Required	Description
PONUMBER	Alphanumeric	1-17	No	Purchase Order Number is for a Purchase Card transaction.
PURCHASECARD	Explicit	Variable	No	"True" or "False" determines if a Purchase Card is being used.
PARTIALAPPROVALSUPPORT	Explicit	Variable	No	"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 IIAS Transaction.
RECEIPTCARDHOLDERNAME	Alphanumeric	1-26	No	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.
RECEIPTFORMAT	Explicit	Variable	No	"TEXT", or "TEXT_AND_XML".
RECEIPTPRINTTIPLINE	Explicit	Variable	No	"True" or "False". This is used to force a tip line on the receipt.
SHIPPINGDATE	Numeric	6	Conditional	Used for the E-Commerce and MOTO industries and should be sent in a MMDDYY format or "CLEAR".
TAXAMOUNT	Numeric	Variable	No	0.00 - 9999.99. This value represents the tax amount of the transaction. A value of 0 is used to represent Tax Exempt.
RECEIPTPOLICY	Alphanumeric	1-40	No	This field is used to override the Return Policy set at the OpenEdge Merchant Portal if desired. Field can be submitted multiple times for a cumulative character limit of 4,000.

SALE Transaction Request Fields				
Field	Value	Length	Required	Description
RECEIPTDUPLICATE	Explicit	Variable	No	"True" or "False". Optional field to add "Duplicate Copy" text to the receipt.
TIP	Numeric	Variable	No	Amount of the tip added to the transaction.
IIASTRANSACTION	Explicit	Variable	No	Indicates this is an IIAS Transaction type. For more information see <a href="#">Appendix C</a> .
IIASAUTHORIZEDAMOUNT	Numeric	Variable	No	Amount of purchase that qualifies for IIAS. For more information see <a href="#">Appendix C</a> .
IIASRXAMOUNT	Numeric	Variable	No	This is the prescription amount of the IIAS transaction. For more information see <a href="#">Appendix C</a> .
DISABLEDEVICEMANUALENTY	Explicit	Boolean	No	"True" or "False". Hides the Manual Entry button on the device. If not sent, defaults to "False".
PROMPTCASHBACK	Explicit	Variable	No	"True" or "False". Prompts cardholder if they want Cashback and the amount. Cannot be used with CASHBACKAMOUNT. Only prompts for cashback if user selects DEBIT on the PIN Pad. Requires APIVERSION "2".
CASHBACKLIMIT	Numeric	1-3	No	1-999, in whole dollar amounts (no decimals). Defaults to \$100 in USA and \$40 in Canada. If CASHBACKLIMIT is lower than default amounts for CASHBACKOPTIONS, then custom CASHBACKOPTIONS must be sent in. Requires APIVERSION "2".
CASHBACKOPTION1	Numeric	1-3	No	1-999, in whole dollar amounts (no decimals). Cannot be same amount as other CASHBACKOPTIONS. Must be less than CASHBACKLIMIT.

SALE Transaction Request Fields				
Field	Value	Length	Required	Description
				If not sent, defaults to \$20 in USA, \$10 in Canada. Requires APIVERSION "2".
CASHBACKOPTION2	Numeric	1-3	No	1-999, in whole dollar amounts (no decimals). Cannot be same amount as other CASHBACKOPTIONS. Must be less than CASHBACKLIMIT. If not sent, defaults to \$40 in USA, \$20 in Canada. Requires APIVERSION "2".
CASHBACKOPTION3	Numeric	1-3	No	1-999, in whole dollar amounts (no decimals). Cannot be same amount as other CASHBACKOPTIONS. Must be less than CASHBACKLIMIT. If not sent, defaults to \$80 in USA, \$40 in Canada. Requires APIVERSION "2".

## Credit Card Transaction Types

The following section breaks down the different Credit Card Transaction requests.

### Credit Card Request Field Headers

The following Credit Card Transaction Request fields, are used with all Credit Card Transaction Types.

Credit Card Transaction Request Field Headers				
Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	"CREDITSALE", "CREDITRETURN", "CREDITONLINECAPTURE", "CREDITOFFLINECAPTURE", "CREDITAUTH", "CREDITUPDATE", "CREDITVOID".
XWEBAUTHKEY	Alphanumeric	32	Yes	XWeb private key assigned by XWeb. Merchant must present the key to authenticate itself to the Gateway.
XWEBID	Numeric	12	Yes	XWebID authorization credential. This is the ID given to the merchant once they have been enrolled in the system.
XWEBINDUSTRY	Explicit	Variable	No	"RETAIL", "RESTAURANT", "ECOMMERCE", or "MOTO"
XWEBTERMINALID	Numeric	8	Yes	XWebTerminalID authorization credential.
SUPPRESSUI	Explicit	Variable	No	"True" or "False". Suppresses desktop transaction status windows. If not sent, defaults to "False".
SUPPRESSUIPROMPTS	Explicit	Variable	No	"True" or "False". Only suppresses Credit or Debit, Yes/No and Signature confirmation windows. If not sent, defaults to "False".
PROMPTBATTERYSTATUS	Explicit	Variable	No	"True" or "False". This is the battery life status of the Bluetooth device. If not sent, defaults to "False".
DISABLEDEVICEMANUALENTRY	Explicit	Boolean	No	"True" or "False". Hides the Manual Entry button on the

Credit Card Transaction Request Field Headers				
Field	Value	Length	Required	Description
				device. If not sent, defaults to "False".
APIVERSION	Numeric	1	No	Default value is "1". "1" - Legacy functionality is in effect "2" - Updated functionality is in effect See <a href="#">Appendix E – Implement APIVERSION</a> for specific information.

### CREDITSALE Request Fields

Credit Sale charges a purchase to a credit card account. See XML Request section for info on the response/result data. [View Transaction Request Headers here.](#)

CREDITSALE Transaction Request Fields				
Field	Value	Length	Required	Description
AMOUNT	Numeric	1-8	Yes	0.01-999999.99. Transaction amount. Does not include cash back or tip amount.
CLERK	Alphanumeric	0-20	No	A merchant assigned identifier that can be used to track the person who ran the transaction.
ADDRESS	Alphanumeric	0-50	No	Cardholder's address for AVS.
ZIP	Alphanumeric	0-20	No	Cardholder's ZIP code for AVS. Hyphens symbols are acceptable.
INVOICENO	Alphanumeric	0-25	No	Provides an invoice number to the transaction.
RECEIPTCOPYLABEL	Explicit	13	No	"CUSTOMER_COPY", "MERCHANT_COPY", or "BOTH". Copy Label for the receipt.
RECEIPTADDRESS	Alphanumeric	0-400	No	Address printed on receipt.
RECEIPTLINEITEMS	Alphanumeric	0-8000	No	Line items printed on receipt.



CREDITSALE Transaction Request Fields				
Field	Value	Length	Required	Description
RECEIPTPHONE	Alphanumeric	0-40	No	Phone number printed on receipt.
RECEIPTPOLICY	Alphanumeric	0-40	No	Policy printed on bottom of receipt. Field can be submitted multiple times for a cumulative character limit of 4,000.
RECEIPTSTORENAME	Alphanumeric	0-40	No	Store name printed on receipt.
RECEIPTFOOTER	Alphanumeric	0-4000	No	Footer printed on the receipt.
RECEIPTHEADER	Alphanumeric	0-4000	No	Header printed on the receipt. RECEIPTHEADER supersedes what is specified in RECEIPTADDRESS, RECEIPTSTORENAME, and RECEIPTPHONE, if passed.
ALLOWDUPLICATES	Explicit	Variable	No	“True” or “False”. Enables duplicate transactions. If not sent, this field defaults to “False”.
DEFAULTLANGUAGE	Alphanumeric	Variable	No	“English” or “French”. Default language for EMV or Interac transactions. Language is defaulted to “English” if no default language is set.
TIPSUPPORT	Numeric	1	No	0 = “Disabled”, 1 = “Enabled”. Tip prompting support in EdgeExpress.
PROMPTSIGNATURE	Alphanumeric	1	No	“True” or “False”. Prompts for signature using a signature capture device.
TITLE	Alphanumeric	Variable	No	String value to display on PIN Pad.
DISPLAYCAPTUREDSIGNATURE	Alphanumeric	1	No	“True” or “False”. Causes a signature acquired with the PPD PROMPTSIGNATURE transaction to be displayed on the screen to the clerk after it has been entered by the customer.

CREDITSALE Transaction Request Fields				
Field	Value	Length	Required	Description
SIGNATUREFILEFORMAT	Explicit	Variable	No	Determines the returned signature file type if the request specifies BMP or PNG.
RETURNSIGNATUREFORMAT	Explicit	Variable	No	Determines if the signature image is returned as BASE64, FILEPATH, or FILEPATH_BASE64.
RECURRING	Explicit	Variable	No	"True" or "False". Indicates this is a recurring transaction.
ALIAS	Alphanumeric	Variable	Conditional	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).
DESTINATIONZIP	Numeric	1-20	No	Destination postal code for a Purchase Card transaction. Hyphens are acceptable; all other symbols are removed.
PONUMBER	Alphanumeric	1-17	No	Purchase Order Number is for a Purchase Card transaction.
PURCHASECARD	Explicit	Variable	No	"True" or "False" determines if a Purchase Card is being used.
PARTIALAPPROVALSUPPORT	Explicit	Variable	No	"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 IIAS Transaction.
RECEIPTCARDHOLDERNAME	Alphanumeric	1-26	No	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.

CREDITSALE Transaction Request Fields				
Field	Value	Length	Required	Description
				This only affects the signature text if a receipt is generated and the receipt has a signature line.
RECEIPTFORMAT	Explicit	Variable	No	"TEXT", or "TEXT_AND_XML".
RECEIPTPRINTTIPLINE	Explicit	Variable	No	"True" or "False". This is used to force a tip line on the receipt.
SHIPPINGDATE	Numeric	6	Conditional	Used for the E-Commerce and MOTO industries and should be sent in a MMDDYY format or "CLEAR".
TAXAMOUNT	Numeric	Variable	No	0.00 - 9999.99. This value represents the tax amount of the transaction. A value of 0 is used to represent Tax Exempt.
RECEIPTPOLICY	Alphanumeric	1-40	No	This field is used to override the Return Policy set at the OpenEdge Merchant Portal if desired. Field can be submitted multiple times for a cumulative character limit of 4,000.
RECEIPTDUPLICATE	Explicit	Variable	No	"True" or "False". Optional field to add "Duplicate Copy" text to the receipt.
TIP	Numeric	Variable	No	Amount of the tip added to the transaction.
IIASTRANSACTION	Explicit	Variable	No	Indicates this is an IAS Transaction type. For more information see <a href="#">Appendix C</a> .
IIASAUTHORIZEDAMOUNT	Numeric	Variable	No	Amount of purchase that qualifies for IAS. For more information see <a href="#">Appendix C</a> .
IIASRXAMOUNT	Numeric	Variable	No	This is the prescription amount of the IAS transaction. For more information see <a href="#">Appendix C</a> .
SUPPRESSUIPROMPTS	Explicit	Variable	No	"True" or "False". Only suppresses Credit or Debit,

CREDITSALE Transaction Request Fields				
Field	Value	Length	Required	Description
				Yes/No and Signature confirmation windows. If not sent, defaults to "False".
ORDERID	Alphanumeric	1-50	No	This optional field may be 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.
CREATEALIAS	Boolean	Variable	No	"TRUE"- EdgeExpress will create and return an alias for the request. "FALSE"- EdgeExpress will <i>not</i> create and return an alias for the request.

### CREDITRETURN Request Fields

Credit Return returns funds to a credit card account. See XML Request section for info on the response/result data. [View Transaction Request Headers here.](#)

CREDITRETURN Transaction Request Fields				
Field	Value	Length	Required	Description
AMOUNT	Numeric	1-8	Yes	0.01-999999.99. Transaction amount. Does not include cash back or tip amount.
CLERK	Alphanumeric	0-20	No	A merchant assigned identifier that can be used to track the person who ran the transaction.
INVOICENO	Alphanumeric	0-25	No	Provides an invoice number to the transaction.
RECEIPTCOPYLABEL	Explicit	13	No	"CUSTOMER_COPY", "MERCHANT_COPY", or "BOTH". Copy Label for the receipt.
RECEIPTADDRESS	Alphanumeric	0-400	No	Address printed on receipt.

CREDITRETURN Transaction Request Fields				
Field	Value	Length	Required	Description
RECEIPLINEITEMS	Alphanumeric	0-8000	No	Line items printed on receipt.
RECEIPTPHONE	Alphanumeric	0-40	No	Phone number printed on receipt.
RECEIPTPOLICY	Alphanumeric	0-40	No	Policy printed on bottom of receipt. Field can be submitted multiple times for a cumulative character limit of 4,000.
RECEIPTFOOTER	Alphanumeric	0-4000	No	Footer printed on the receipt.
RECEIPTHEADER	Alphanumeric	0-4000	No	Header printed on the receipt. RECEIPTHEADER supersedes what is specified in RECEIPTADDRESS, RECEIPTSTORENAME, and RECEIPTPHONE, if passed.
ALLOWDUPLICATES	Explicit	Variable	No	Enables duplicate transactions. Duplicates are disabled by default.
DEFAULTLANGUAGE	Alphanumeric	Variable	No	“English” or “French”. Default language for EMV or Interac transactions. Language is defaulted to “English” if no default language is set.
DISPLAYCAPTUREDSIGNATURE	Alphanumeric	1	No	“True” or “False”. Causes a signature acquired with the PDPROMPTSIGNATURE transaction to be displayed on the screen to the clerk after it has been entered by the customer.
SIGNATUREFILEFORMAT	Explicit	Variable	No	Determines the returned signature file type if the request specifies BMP or PNG.
RETURNSIGNATUREFORMAT	Explicit	Variable	No	Determines if the signature image is returned as BASE64, FILEPATH, or FILEPATH_BASE64.

CREDITRETURN Transaction Request Fields				
Field	Value	Length	Required	Description
RECURRING	Explicit	Variable	No	"True" or "False". Indicates this is a recurring transaction.
RECEIPTCARDHOLDERNAME	Alphanumeric	1-26	No	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.
RECEIPTFORMAT	Explicit	Variable	No	"TEXT", or "TEXT_AND_XML".
RECEIPTPOLICY	Alphanumeric	1-40	No	This field is used to override the Return Policy set at the OpenEdge Merchant Portal if desired. Field can be submitted multiple times for a cumulative character limit of 4,000.
RECEIPTSTORENAME	Alphanumeric	0-40	No	Store name printed on receipt.
PROMPTSIGNATURE	Alphanumeric	1	No	"True" or "False". Prompts for signature using a signature capture device.
RECEIPTDUPLICATE	Explicit	Variable	No	"True" or "False". Optional field to add "Duplicate Copy" text to the receipt.
ORDERID	Alphanumeric	1-50	Conditional	References the ORDERID of a previously processed transaction. Either REFERENCEORDERID or TRANSACTIONID must be sent in the request.
TRANSACTIONID	Numeric	12	No	References the TransactionID of a previously completed transaction.

**CREDITONLINECAPTURE (Pre-Auth Completion) Request Fields**

Credit Online Capture is used to complete a pre-authorization transaction. [View Transaction Request Headers here.](#)

CREDITONLINECAPTURE (Pre-Auth Complete) Transaction Request Fields				
Field	Value	Length	Required	Description
AMOUNT	Numeric	1-8	Yes	0.01-999999.99. Transaction amount. Does not include cash back or tip amount.
CLERK	Alphanumeric	0-20	No	A merchant assigned identifier that can be used to track the person who ran the transaction.
INVOICENO	Alphanumeric	0-25	No	Provides an invoice number to the transaction.
DEFAULTLANGUAGE	Alphanumeric	Variable	No	“English” or “French”. Default language for EMV or Interac transactions. Language is defaulted to “English” if no default language is set.
DESTINATIONZIP	Numeric	1-20	No	Destination postal code for a Purchase Card transaction. Hyphens are acceptable; all other symbols are removed.
PONUMBER	Alphanumeric	1-17	No	Purchase Order Number is for a Purchase Card transaction.
PURCHASECARD	Explicit	Variable	No	“True” or “False” determines if a Purchase Card is being used.
SHIPPINGDATE	Numeric	6	Conditional	Used for the E-Commerce and MOTO industries and should be sent in a MMDDYY format or “CLEAR”.
TAXAMOUNT	Numeric	Variable	No	0.00 - 9999.99. This value represents the tax amount of the transaction. A value of 0 is used to represent Tax Exempt.

**CREDITONLINECAPTURE (Pre-Auth Complete) Transaction Request Fields**

Field	Value	Length	Required	Description
RECEIPTPOLICY	Alphanumeric	1-40	No	This field is used to override the Return Policy set at the OpenEdge Merchant Portal if desired. Field can be submitted multiple times for a cumulative character limit of 4,000.
REFERENCEORDERID	Alphanumeric	1-50	Conditional	References the ORDERID of a previously processed transaction. Either REFERENCEORDERID or TRANSACTIONID must be sent in the request.



**CREDITOFFLINECAPTURE (Voice Authorization) Request Fields**

Credit Offline Capture is used to enter a voice approved transaction into the current batch. [View Transaction Request Headers here.](#)

CREDITOFFLINECAPTURE (Voice Auth) Transaction Request Fields				
Field	Value	Length	Required	Description
ORDERID	Alphanumeric	1-50	No	This optional field may be 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.
AMOUNT	Numeric	1-8	Yes	0.01-999999.99. Transaction amount. Does not include cash back or tip amount.
CLERK	Alphanumeric	0-20	No	A merchant assigned identifier that can be used to track the person who ran the transaction.
INVOICENO	Alphanumeric	0-25	No	Provides an invoice number to the transaction.
RECEIPTCOPYLABEL	Explicit	13	No	"CUSTOMER_COPY", "MERCHANT_COPY", or "BOTH". Copy Label for the receipt.
RECEIPTADDRESS	Alphanumeric	0-400	No	Address printed on receipt.
RECEIPTLINEITEMS	Alphanumeric	0-8000	No	Line items printed on receipt.
RECEIPTPHONE	Alphanumeric	0-40	No	Phone number printed on receipt.
RECEIPTPOLICY	Alphanumeric	0-40	No	Policy printed on bottom of receipt.
RECEIPTSTORENAME	Alphanumeric	0-40	No	Store name printed on receipt.
RECEIPTFOOTER	Alphanumeric	0-4000	No	Footer printed on the receipt.

CREDITOFFLINECAPTURE (Voice Auth) Transaction Request Fields				
Field	Value	Length	Required	Description
RECEIPTHEADER	Alphanumeric	0-4000	No	Header printed on the receipt. RECEIPTHEADER supersedes what is specified in RECEIPTADDRESS, RECEIPTSTORENAME, and RECEIPTPHONE, if passed.
DEFAULTLANGUAGE	Alphanumeric	Variable	No	“English” or “French”. Default language for EMV or Interac transactions. Language is defaulted to “English” if no default language is set.
ALIAS	Alphanumeric	Variable	Conditional	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).
DESTINATIONZIP	Numeric	1-20	No	Destination postal code for a Purchase Card transaction. Hyphens are acceptable; all other symbols are removed.
PONUMBER	Alphanumeric	1-17	No	Purchase Order Number is for a Purchase Card transaction.
PURCHASECARD	Explicit	Variable	No	“True” or “False” determines if a Purchase Card is being used.
RECEIPTCARDHOLDERNAME	Alphanumeric	1-26	No	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.
RECEIPTFORMAT	Explicit	Variable	No	"TEXT", or "TEXT_AND_XML".

CREDITOFFLINECAPTURE (Voice Auth) Transaction Request Fields				
Field	Value	Length	Required	Description
RECEIPTPRINTTIPLINE	Explicit	Variable	No	"True" or "False". This is used to force a tip line on the receipt.
SHIPPINGDATE	Numeric	6	Conditional	Used for the E-Commerce and MOTO industries and should be sent in a MMDDYY format or "CLEAR".
TAXAMOUNT	Numeric	Variable	No	0.00 - 9999.99. This value represents the tax amount of the transaction. A value of 0 is used to represent Tax Exempt.
APPROVALCODE	Alphanumeric	Variable	Yes	Transaction approval code returned from processing host.
RECEIPTPOLICY	Alphanumeric	1-40	No	This field is used to override the Return Policy set at the OpenEdge Merchant Portal if desired. Field can be submitted multiple times for a cumulative character limit of 4,000.
ALLOWDUPLICATES	Explicit	Variable	No	Enables duplicate transactions. Duplicates are disabled by default.
RECEIPTDUPLICATE	Explicit	Variable	No	"True" or "False". Optional field to add "Duplicate Copy" text to the receipt.
CREATEALIAS	Boolean	Variable	No	"TRUE"- EdgeExpress will create and return an alias for the request. "FALSE"- EdgeExpress will <i>not</i> create and return an alias for the request.

**CREDITAUTH Request Fields**

A pre-authorization is used to verify available funds, put a hold on those funds, and receive an approval number for the transaction. The force transaction must be used to complete a pre-authorization transaction.

One method for adding tips is to run a Pre-Auth for the initial amount and then run a Force when the ticket is closed for the amount plus tip. If the Force is not run, the merchant will not receive their funds. [View Transaction Request Headers here.](#)

CREDITAUTH Transaction Request Fields				
Field	Value	Length	Required	Description
AMOUNT	Numeric	1-8	Yes	0.00-999999.99. Transaction amount. Does not include cash back or tip amount.
CLERK	Alphanumeric	0-20	No	A merchant assigned identifier that can be used to track the person who ran the transaction.
ADDRESS	Alphanumeric	0-50	No	Cardholder's address for AVS.
ZIP	Alphanumeric	0-20	No	Cardholder's ZIP code for AVS. Hyphens symbols are acceptable.
INVOICENO	Alphanumeric	0-25	No	Provides an invoice number to the transaction.
RECEIPTCOPYLABEL	Explicit	13	No	"CUSTOMER_COPY", "MERCHANT_COPY", or "BOTH". Copy Label for the receipt.
RECEIPTADDRESS	Alphanumeric	0-400	No	Address printed on receipt.
RECEIPTLINEITEMS	Alphanumeric	0-8000	No	Line items printed on receipt.
RECEIPTPHONE	Alphanumeric	0-40	No	Phone number printed on receipt.
RECEIPTPOLICY	Alphanumeric	0-40	No	Policy printed on bottom of receipt. Field can be submitted multiple times for a cumulative character limit of 4,000.
RECEIPTSTORENAME	Alphanumeric	0-40	No	Store name printed on receipt.

CREDITAUTH Transaction Request Fields				
Field	Value	Length	Required	Description
RECEIPTFOOTER	Alphanumeric	0-4000	No	Footer printed on the receipt.
RECEIPTHEADER	Alphanumeric	0-4000	No	Header printed on the receipt. RECEIPTHEADER supersedes what is specified in RECEIPTADDRESS, RECEIPTSTORENAME, and RECEIPTPHONE, if passed.
DEFAULTLANGUAGE	Alphanumeric	Variable	No	“English” or “French”. Default language for EMV or Interac transactions. Language is defaulted to “English” if no default language is set.
ALLOWDUPLICATES	Explicit	Variable	No	Enables duplicate transactions. Duplicates are disabled by default.
TIPSUPPORT	Numeric	1	No	0 = “Disabled”, 1 = “Enabled”. Tip prompting support in EdgeExpress.
PROMPTSIGNATURE	Alphanumeric	1	No	“True” or “False”. Prompts for signature using a signature capture device.
TITLE	Alphanumeric	Variable	No	String value to display on PIN Pad.
DISPLAYCAPTUREDSIGNATURE	Alphanumeric	1	No	“True” or “False”. Causes a signature acquired with the PPD PROMPTSIGNATURE transaction to be displayed on the screen to the clerk after it has been entered by the customer.
SIGNATUREFILEFORMAT	Explicit	Variable	No	Determines the returned signature file type if the request specifies BMP or PNG.
RETURNSIGNATUREFORMAT	Explicit	Variable	No	Determines if the signature image is returned as BASE64, FILEPATH, or FILEPATH_BASE64.

CREDITAUTH Transaction Request Fields				
Field	Value	Length	Required	Description
ALIAS	Alphanumeric	Variable	Conditional	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).
DESTINATIONZIP	Numeric	1-20	No	Destination postal code for a Purchase Card transaction. Hyphens are acceptable; all other symbols are removed.
PONUMBER	Alphanumeric	1-17	No	Purchase Order Number is for a Purchase Card transaction.
PURCHASECARD	Explicit	Variable	No	"True" or "False" determines if a Purchase Card is being used.
PARTIALAPPROVALSUPPORT	Explicit	Variable	No	"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 IIAS Transaction.
RECEIPTCARDHOLDERNAME	Alphanumeric	1-26	No	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.
RECEIPTFORMAT	Explicit	Variable	No	"TEXT", or "TEXT_AND_XML".
RECEIPTPRINTTIPLINE	Explicit	Variable	No	"True" or "False. This is used to force a tip line on the receipt.

CREDITAUTH Transaction Request Fields				
Field	Value	Length	Required	Description
SHIPPINGDATE	Numeric	6	Conditional	Used for the E-Commerce and MOTO industries and should be sent in a MMDDYY format or "CLEAR".
TAXAMOUNT	Numeric	Variable	No	0.00 - 9999.99. This value represents the tax amount of the transaction. A value of 0 is used to represent Tax Exempt.
RECEIPTPOLICY	Alphanumeric	1-40	No	This field is used to override the Return Policy set at the OpenEdge Merchant Portal if desired. Field can be submitted multiple times for a cumulative character limit of 4,000.
TIP	Numeric	Variable	No	Amount of the tip added to the transaction.
RECURRING	Alphanumeric	1	No	"True" or "False". Indicates this is a recurring transaction.
RECEIPTDUPLICATE	Explicit	Variable	No	"True" or "False". Optional field to add "Duplicate Copy" text to the receipt.
ORDERID	Alphanumeric	1-50	No	This optional field may be 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.
CREATEALIAS	Boolean	Variable	No	"TRUE"- EdgeExpress will create and return an alias for the request. "FALSE"- EdgeExpress will <i>not</i> create and return an alias for the request.

**CREDITUPDATE Request Fields**

Credit Update modifies the amount for a previously processed transaction. An alternative tipping method is to run a Purchase for the amount of the sale then a Credit Update for that amount plus tip. A merchant still receives the initial amount even if the ticket is not closed properly. [View Transaction Request Headers here.](#)

CREDITUPDATE Transaction Request Fields				
Field	Value	Length	Required	Description
TRANSACTIONID	Numeric	12	Yes	References the TransactionID of a previously processed transaction.
AMOUNT	Numeric	1-8	Yes	0.01-999999.99. Transaction amount. Does not include cash back or tip amount.
CLERK	Alphanumeric	0-20	No	A merchant assigned identifier that can be used to track the person who ran the transaction.
DEFAULTLANGUAGE	Alphanumeric	Variable	No	“English” or “French”. Default language for EMV or Interac transactions. Language is defaulted to “English” if no default language is set.
INVOICENO	Alphanumeric	0-25	No	Provides an invoice number to the transaction.
RECEIPTCOPYLABEL	Explicit	13	No	“CUSTOMER_COPY”, “MERCHANT_COPY”, or “BOTH”. Copy Label for the receipt.
RECEIPTADDRESS	Alphanumeric	0-400	No	Address printed on receipt.
RECEIPTLINEITEMS	Alphanumeric	0-8000	No	Line items printed on receipt.
RECEIPTPHONE	Alphanumeric	0-40	No	Phone number printed on receipt.
RECEIPTPOLICY	Alphanumeric	0-40	No	Policy printed on bottom of receipt. Field can be submitted multiple times for a cumulative character limit of 4,000.
RECEIPTFOOTER	Alphanumeric	0-4000	No	Footer printed on the receipt.
RECEIPTHEADER	Alphanumeric	0-4000	No	Header printed on the receipt. RECEIPTHEADER supersedes



CREDITUPDATE Transaction Request Fields				
Field	Value	Length	Required	Description
				what is specified in RECEIPTADDRESS, RECEIPTSTORENAME, and RECEIPTPHONE, if passed.
DESTINATIONZIP	Numeric	1-20	No	Destination postal code for a Purchase Card transaction. Hyphens are acceptable; all other symbols are removed.
PONUMBER	Alphanumeric	1-17	No	Purchase Order Number is for a Purchase Card transaction.
RECEIPTFORMAT	Explicit	Variable	No	"TEXT", or "TEXT_AND_XML".
SHIPPINGDATE	Numeric	6	Conditional	Used for the E-Commerce and MOTO industries and should be sent in a MMDDYY format or "CLEAR".
TAXAMOUNT	Numeric	Variable	No	0.00 - 9999.99. This value represents the tax amount of the transaction. A value of 0 is used to represent Tax Exempt.
RECEIPTDUPLICATE	Explicit	Variable	No	"True" or "False". Optional field to add "Duplicate Copy" text to the receipt.
REFERENCEORDERID	Alphanumeric	1-50	Conditional	References the ORDERID of a previously processed transaction. Either REFERENCEORDERID or TRANSACTIONID must be sent in the request.

**CREDITVOID Request Fields**

Void reverses the action of a previous transaction. A Void can only be run if the transaction has not been batched (usually same-day). [View Transaction Request Headers here.](#)

CREDITVOID Transaction Request Fields				
Field	Value	Length	Required	Description
DEFAULTLANGUAGE	Alphanumeric	Variable	No	"English" or "French". Default language for EMV or Interac transactions. Language is defaulted to "English" if no default language is set.
TRANSACTIONID	Numeric	12	Yes	References the TransactionID of a previously processed transaction.
RECEIPTCOPYLABEL	Explicit	13	No	"CUSTOMER_COPY", "MERCHANT_COPY", or "BOTH". Copy Label for the receipt.
RECEIPTADDRESS	Alphanumeric	0-400	No	Address printed on receipt.
RECEIPTLINEITEMS	Alphanumeric	0-8000	No	Line items printed on receipt.
RECEIPTPHONE	Alphanumeric	0-40	No	Phone number printed on receipt.
RECEIPTPOLICY	Alphanumeric	0-40	No	Policy printed on bottom of receipt. Field can be submitted multiple times for a cumulative character limit of 4,000.
ALIAS	Alphanumeric	Variable	Conditional	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).
RECEIPTFORMAT	Explicit	Variable	No	"TEXT", or "TEXT_AND_XML".
RECEIPTDUPLICATE	Explicit	Variable	No	"True" or "False". Optional field to add "Duplicate Copy" text to the receipt.

CREDITVOID Transaction Request Fields				
Field	Value	Length	Required	Description
REFERENCEORDERID	Alphanumeric	1-50	Conditional	References the ORDERID of a previously processed transaction. Either REFERENCEORDERID or TRANSACTIONID must be sent in the request.
RETURNID	Numeric	1-99	Conditional	A unique value assigned to CREDITRETURN transactions that were created using a REFERENCEORDERID value.

## Debit Card Transaction Types

The following section breaks down the different Debit Card Transaction requests.

### Debit Card Request Field Headers

The following Debit Card Transaction Request fields, are used with all Debit Card Transaction Types.

Debit Card Transaction Request Field Headers				
Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	"DEBITSALE", "DEBITRETURN", "DEBITVOID."
XWEBAUTHKEY	Alphanumeric	32	Yes	XWeb private key assigned by XWeb. Merchant must present the key to authenticate itself to the Gateway.
XWEBID	Numeric	12	Yes	XWebID authorization credential. This is the ID given to the merchant once they have been enrolled in the system.
XWEBINDUSTRY	Explicit	Variable	No	"RETAIL", "RESTAURANT", "ECOMMERCE", or "MOTO"
XWEBTERMINALID	Numeric	8	Yes	XWebTerminalID authorization credential.
SUPPRESSUI	Explicit	Variable	No	"True" or "False". Suppresses desktop transaction status windows. If not sent, defaults to "False".

Debit Card Transaction Request Field Headers				
Field	Value	Length	Required	Description
PROMPTBATTERYSTATUS	Explicit	Variable	No	“True” or “False”. Battery life status of the Bluetooth device. If not sent, defaults to “False”.
DISABLEDEVICEMANUALENTY	Explicit	Boolean	No	“True” or “False”. Hides the Manual Entry button on the device. If not sent, defaults to “False”
APIVERSION	Numeric	1	No	Default value is “1”. “1” - Legacy functionality is in effect “2” - Updated functionality is in effect See <a href="#">Appendix E – Implement APIVERSION</a> for specific information.

### DEBITSALE Request Fields

Debit Sale is used to complete a debit card purchase transaction. A debit PIN Pad is required to get the PIN and Key block required by the transaction. The debit card track 2 information is also required to complete a debit sale transaction. [View Transaction Request Headers here.](#)

DEBITSALE Transaction Request Fields				
Field	Value	Length	Required	Description
AMOUNT	Numeric	1-8	Yes	0.01-999999.99. Transaction amount. Does not include cash back or tip amount.
CLERK	Alphanumeric	0-20	No	A merchant assigned identifier that can be used to track the person who ran the transaction.
DEFAULTLANGUAGE	Alphanumeric	Variable	No	“English” or “French”. Default language for EMV or Interac transactions. Language is defaulted to “English” if no default language is set.
INVOICENO	Alphanumeric	0-25	No	Provides an invoice number to the transaction.

DEBITSALE Transaction Request Fields				
Field	Value	Length	Required	Description
RECEIPTCOPYLABEL	Explicit	13	No	"CUSTOMER_COPY", "MERCHANT_COPY", or "BOTH". Copy Label for the receipt.
RECEIPTADDRESS	Alphanumeric	0-400	No	Address printed on receipt.
RECEIPTLINEITEMS	Alphanumeric	0-8000	No	Line items printed on receipt.
RECEIPTPHONE	Alphanumeric	0-40	No	Phone number printed on receipt.
RECEIPTPOLICY	Alphanumeric	0-40	No	Policy printed on bottom of receipt. Field can be submitted multiple times for a cumulative character limit of 4,000.
RECEIPTFOOTER	Alphanumeric	0-4000	No	Footer printed on the receipt.
RECEIPTHEADER	Alphanumeric	0-4000	No	Header printed on the receipt. RECEIPTHEADER supersedes what is specified in RECEIPTADDRESS, RECEIPTSTORENAME, and RECEIPTPHONE, if passed.
PARTIALAPPROVALSUPPORT	Explicit	Variable	No	"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 IIAS Transaction.
RECEIPTCARDHOLDERNAME	Alphanumeric	1-26	No	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

DEBITSALE Transaction Request Fields				
Field	Value	Length	Required	Description
				generated and the receipt has a signature line.
RECEIPTFORMAT	Explicit	Variable	No	"TEXT", or "TEXT_AND_XML".
CASHBACKAMOUNT	Numeric	1-5	Conditional	0.01 - 999.99 (decimal point not required for even dollar amounts). Cannot be used with PROMPTCASHBACK.
TIP	Numeric	Variable	No	Amount of the tip added to the transaction.
TIPSUPPORT	Numeric	1	No	0 = "Disabled", 1 = "Enabled". Tip prompting support in EdgeExpress.
RECEIPTDUPLICATE	Explicit	Variable	No	"True" or "False". Optional field to add "Duplicate Copy" text to the receipt.
ORDERID	Alphanumeric	1-50	No	This optional field may be 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.
PROMPTCASHBACK	Explicit	Variable	No	"True" or "False". Device prompts cardholder if they want Cashback and the amount. Cannot be used with CASHBACKAMOUNT. Requires APIVERSION "2".
CASHBACKLIMIT	Numeric	1-3	No	1-999, in whole dollar amounts (no decimals). Defaults to \$100 in USA and \$40 in Canada. If CASHBACKLIMIT is lower than default amounts for CASHBACKOPTIONS, then custom CASHBACKOPTIONS

DEBITSALE Transaction Request Fields				
Field	Value	Length	Required	Description
				must be sent. Requires APIVERSION "2".
CASHBACKOPTION1	Numeric	1-3	No	1-999, in whole dollar amounts (no decimals). Cannot be same amount as other CASHBACKOPTIONS. Must be less than CASHBACKLIMIT. If not sent, defaults to \$20 in USA, \$10 in Canada. Requires APIVERSION "2".
CASHBACKOPTION2	Numeric	1-3	No	1-999, in whole dollar amounts (no decimals). Cannot be same amount as other CASHBACKOPTIONS. Must be less than CASHBACKLIMIT. If not sent, defaults to \$40 in USA, \$20 in Canada. Requires APIVERSION "2".
CASHBACKOPTION3	Numeric	1-3	No	1-999, in whole dollar amounts (no decimals). Cannot be same amount as other CASHBACKOPTIONS. Must be less than CASHBACKLIMIT. If not sent, defaults to \$80 in USA, \$40 in Canada. Requires APIVERSION "2".

**DEBITRETURN Request Fields**

Debit Return is used to return funds to a debit card. A debit PIN Pad is required to get the PIN and Key block required by the transaction. The debit card track 2 information is also required to complete a debit return transaction. Debit Return is disabled by default on the merchant account but can be enabled upon request. [View Transaction Request Headers here.](#)

DEBITRETURN Transaction Request Fields				
Field	Value	Length	Required	Description
AMOUNT	Numeric	1-8	Yes	0.01-999999.99. Transaction amount. Does not include cash back or tip amount.
CLERK	Alphanumeric	0-20	No	A merchant assigned identifier that can be used to track the person who ran the transaction.
INVOICENO	Alphanumeric	0-25	No	Provides an invoice number to the transaction.
RECEIPTCOPYLABEL	Explicit	13	No	“CUSTOMER_COPY”, “MERCHANT_COPY”, or “BOTH”. Copy Label for the receipt.
RECEIPTADDRESS	Alphanumeric	0-400	No	Address printed on receipt.
RECEIPTLINEITEMS	Alphanumeric	0-8000	No	Line items printed on receipt.
RECEIPTPHONE	Alphanumeric	0-40	No	Phone number printed on receipt.
RECEIPTPOLICY	Alphanumeric	0-40	No	Policy printed on bottom of receipt. Field can be submitted multiple times for a cumulative character limit of 4,000.
RECEIPTSTORENAME	Alphanumeric	0-40	No	Store name printed on receipt.
RECEIPTFOOTER	Alphanumeric	0-4000	No	Footer printed on the receipt.
RECEIPTHEADER	Alphanumeric	0-4000	No	Header printed on the receipt. RECEIPTHEADER supersedes what is specified in RECEIPTADDRESS,



DEBITRETURN Transaction Request Fields				
Field	Value	Length	Required	Description
				RECEIPTSTORENAME, and RECEIPTPHONE, if passed.
DEFAULTLANGUAGE	Alphanumeric	Variable	No	“English” or “French”. Default language for EMV or Interac transactions. Language is defaulted to “English” if no default language is set.
RECEIPTDUPLICATE	Explicit	Variable	No	“True” or “False”. Optional field to add “Duplicate Copy” text to the receipt.
RECEIPTCARDHOLDERNAME	Alphanumeric	1-26	No	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.
RECEIPTFORMAT	Explicit	Variable	No	“TEXT”, or “TEXT_AND_XML”.
ORDERID	Alphanumeric	1-50	No	This optional field may be 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.

**DEBITVOID Request Fields**

Void reverses the action of a previous transaction. A Void can only be run if the transaction has not been batched (usually same-day). Note: DEBITVOID is currently supported only on Ingenico iPP320 (Canadian EMV Contactless) devices. [View Transaction Request Headers here.](#)

DEBITVOID Transaction Request Fields				
Field	Value	Length	Required	Description
REFERENCEORDERID	Alphanumeric	1-50	Conditional	References the ORDERID of a previously processed transaction. Either REFERENCEORDERID or TRANSACTIONID must be sent with the request.
TRANSACTIONID	Alphanumeric	Variable	Conditional	References the TRANSACTIONID of a previously processed transaction. Either REFERENCEORDERID or TRANSACTIONID must be sent with the request.

## EBT Transaction Types

The following section breaks down the different EBT Transaction requests.

### EBT Request Field Headers

The following EBT Transaction Request fields, are used with all EBT Transaction Types.

EBT Transaction Request Field Headers				
Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	"EBTSALE", "EBTRETURN", "EBTVOUCHERCLEAR".
XWEBAUTHKEY	Alphanumeric	32-32	Yes	XWeb private key assigned by XWeb. Merchant must present the key to authenticate itself to the Gateway.
XWEBID	Numeric	12-12	Yes	XWebID authorization credential. This is the ID given to the merchant once they have been enrolled in the system.
XWEBINDUSTRY	Explicit	Variable	No	"RETAIL", "RESTAURANT", "ECOMMERCE", or "MOTO"
XWEBTERMINALID	Numeric	8-8	Yes	XWebTerminalID authorization credential.
PROMPTBATTERYSTATUS	Explicit	Variable	No	"True" or "False" This is the battery life status of the Bluetooth device. If not sent, defaults to "False".
DISABLEDEVICEMANUALENTRY	Explicit	Boolean	No	"True" or "False". Hides the Manual Entry button on the device. If not sent, defaults to "False".
APIVERSION	Numeric	1	No	Default value is "1". "1" - Legacy functionality is in effect "2" - Updated functionality is in effect See <a href="#">Appendix E – Implement APIVERSION</a> for specific information.

**EBTSALETRANSACTION Request Fields**

An EBT sale is used to complete an EBT purchase transaction. A debit PIN Pad is required to get the PIN and Key block required by the transaction. The EBT card track 2 information is also required to complete an EBT sale transaction. [View Transaction Request Headers here.](#)

EBTSALETRANSACTION Transaction Request Fields				
Field	Value	Length	Required	Description
AMOUNT	Numeric	1-7	Yes	0.01-999999.99. Transaction amount. Does not include cash back or tip amount.
CLERK	Alphanumeric	0-20	No	A merchant assigned identifier that can be used to track the person who ran the transaction.
ADDRESS	Alphanumeric	0-50	No	Cardholder's address for AVS.
ZIP	Alphanumeric	0-20	No	Cardholder's ZIP code for AVS. Hyphens symbols are acceptable.
INVOICENO	Alphanumeric	0-25	No	Provides an invoice number to the transaction.
RECEIPTCOPYLABEL	Explicit	13	No	"CUSTOMER_COPY", "MERCHANT_COPY", or "BOTH". Copy Label for the receipt.
RECEIPTADDRESS	Alphanumeric	0-400	No	Address printed on receipt.
RECEIPTLINEITEMS	Alphanumeric	0-8000	No	Line items printed on receipt.
RECEIPTPHONE	Alphanumeric	0-40	No	Phone number printed on receipt.
RECEIPTPOLICY	Alphanumeric	0-40	No	Policy printed on bottom of receipt. Field can be submitted multiple times for a cumulative character limit of 4,000.
RECEIPTSTORENAME	Alphanumeric	0-40	No	Store name printed on receipt.
RECEIPTFOOTER	Alphanumeric	0-4000	No	Footer printed on the receipt.
RECEIPTHEADER	Alphanumeric	0-4000	No	Header printed on the receipt. RECEIPTHEADER supersedes what is specified in RECEIPTADDRESS,

EBTSALETRANSACTION Transaction Request Fields				
Field	Value	Length	Required	Description
				RECEIPTSTORENAME, and RECEIPTPHONE, if passed.
RECEIPTCARDHOLDERNAME	Alphanumeric	1-26	No	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.
RECEIPTFORMAT	Explicit	Variable	No	"TEXT", or "TEXT_AND_XML".
CASHBACKAMOUNT	Numeric	1-5	No	0.01 - 999.99 (decimal point not required for even dollar amounts). Cannot be used with PROMPTCASHBACK.
EBTTYPE	Explicit	Variable	Yes	"FoodStamp" or "CashBenefit". No default value.
ORDERID	Alphanumeric	1-50	No	This optional field may be 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.
MANUALENTROPTION	Numeric	1	No	0 - Prompts for Account, Expiration, and CVV 1 - Prompts for Account and Expiration. 2 - Prompts for Account and CVV. 3 - Prompts for just Account.
PROMPTCASHBACK	Explicit	Variable	No	"True" or "False". Prompts cardholder if they want Cashback and the amount. Cannot be used with CASHBACKAMOUNT. Requires APIVERSION "2".

EBTSALETRANSACTION Transaction Request Fields				
Field	Value	Length	Required	Description
CASHBACKLIMIT	Numeric	1-3	No	1-999, in whole dollar amounts (no decimals). Defaults to \$100 in USA and \$40 in Canada. If CASHBACKLIMIT is lower than default amounts for CASHBACKOPTIONS, then custom CASHBACKOPTIONS must be sent in. Requires APIVERSION "2".
CASHBACKOPTION1	Numeric	1-3	No	1-999, in whole dollar amounts (no decimals). Cannot be same amount as other CASHBACKOPTIONS. Must be less than CASHBACKLIMIT. If not sent, defaults to \$20 in USA, \$10 in Canada. Requires APIVERSION "2".
CASHBACKOPTION2	Numeric	1-3	No	1-999, in whole dollar amounts (no decimals). Cannot be same amount as other CASHBACKOPTIONS. Must be less than CASHBACKLIMIT. If not sent, defaults to \$40 in USA, \$20 in Canada. Requires APIVERSION "2".
CASHBACKOPTION3	Numeric	1-3	No	1-999, in whole dollar amounts (no decimals). Cannot be same amount as other CASHBACKOPTIONS. Must be less than CASHBACKLIMIT. If not sent, defaults to \$80 in USA, \$40 in Canada. Requires APIVERSION "2".

**EBTRETURNTANSACTON Request Fields**

An EBT Return is used to return funds to an EBT card. A debit PIN Pad is required to get the PIN and Key block required by the transaction. The EBT card track 2 information is also required to complete an EBT return transaction. [View Transaction Request Headers here.](#)

EBTRETURNTANSACTON Transaction Request Fields				
Field	Value	Length	Required	Description
AMOUNT	Numeric	1-7	Yes	.01-999999.99. Transaction amount. Does not include cash back or tip amount.
CLERK	Alphanumeric	0-20	No	A merchant assigned identifier that can be used to track the person who ran the transaction.
ADDRESS	Alphanumeric	0-50	No	Cardholder's address for AVS.
ZIP	Alphanumeric	0-20	No	Cardholder's ZIP code for AVS. Hyphens symbols are acceptable.
INVOICENO	Alphanumeric	0-25	No	Provides an invoice number to the transaction.
RECEIPTCOPYLABEL	Explicit	13	No	"CUSTOMER_COPY", "MERCHANT_COPY", or "BOTH". Copy Label for the receipt.
RECEIPTADDRESS	Alphanumeric	0-400	No	Address printed on receipt.
RECEIPTLINEITEMS	Alphanumeric	0-8000	No	Line items printed on receipt.
RECEIPTPHONE	Alphanumeric	0-40	No	Phone number printed on receipt.
RECEIPTPOLICY	Alphanumeric	0-40	No	Policy printed on bottom of receipt. Field can be submitted multiple times for a cumulative character limit of 4,000.
RECEIPTSTORENAME	Alphanumeric	0-40	No	Store name printed on receipt.
RECEIPTFOOTER	Alphanumeric	0-4000	No	Footer printed on the receipt.

EBTRETURNTRANSACTION Transaction Request Fields				
Field	Value	Length	Required	Description
RECEIPTHEADER	Alphanumeric	0-4000	No	Header printed on the receipt. RECEIPTHEADER supersedes what is specified in RECEIPTADDRESS, RECEIPTSTORENAME, and RECEIPTPHONE, if passed.
RECEIPTCARDHOLDERNAME	Alphanumeric	1-26	No	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.
RECEIPTFORMAT	Explicit	Variable	No	"TEXT", or "TEXT_AND_XML".
ORDERID	Alphanumeric	1-50	No	This optional field may be 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.
REFERENCEORDERID	Alphanumeric	1-50	Conditional	References the ORDERID of a previously processed transaction. Either REFERENCEORDERID or TRANSACTIONID must be sent in the request.
MANUALENTRYOPTION	Numeric	1	No	0 - Prompts for Account, Expiration, and CVV 1 - Prompts for Account and Expiration. 2 - Prompts for Account and CVV. 3 - Prompts for just Account.
EBTTYPE	Explicit	Variable	Yes	"FoodStamp". No default value.



**EBTVOUCHERCLEAR Request Fields**

This transaction clears the funds for a previously authorized Electronic Benefit Transfer transaction. The assigned Approval Code and Voucher Serial Number must be provided in the transaction. EBT Voucher Clear transactions are only supported for Food Stamp based transactions within the Retail industry. [View Transaction Request Headers here.](#)

EBTVOUCHERCLEAR Transaction Request Fields				
Field	Value	Length	Required	Description
AMOUNT	Numeric	1-7	Yes	0.01-999999.99. Transaction amount. Does not include cash back or tip amount.
CLERK	Alphanumeric	0-20	No	A merchant assigned identifier that can be used to track the person who ran the transaction.
ADDRESS	Alphanumeric	0-50	No	Cardholder's address for AVS.
ZIP	Alphanumeric	0-20	No	Cardholder's ZIP code for AVS. Hyphens symbols are acceptable.
INVOICENO	Alphanumeric	0-25	No	Provides an invoice number to the transaction.
RECEIPTCOPYLABEL	Explicit	13	No	"CUSTOMER_COPY", "MERCHANT_COPY", or "BOTH". Copy Label for the receipt.
RECEIPTADDRESS	Alphanumeric	0-40	No	Address printed on receipt.
RECEIPTLINEITEMS	Alphanumeric	0-8000	No	Line items printed on receipt.
RECEIPTPHONE	Alphanumeric	0-40	No	Phone number printed on receipt.
RECEIPTPOLICY	Alphanumeric	0-40	No	Policy printed on bottom of receipt. Field can be submitted multiple times for a cumulative character limit of 4,000.
RECEIPTSTORENAME	Alphanumeric	0-40	No	Store name printed on receipt.
RECEIPTFOOTER	Alphanumeric	0-4000	No	Footer printed on the receipt.

EBTVOUCHERCLEAR Transaction Request Fields				
Field	Value	Length	Required	Description
RECEIPTHEADER	Alphanumeric	0-4000	No	Header printed on the receipt. RECEIPTHEADER supersedes what is specified in RECEIPTADDRESS, RECEIPTSTORENAME, and RECEIPTPHONE, if passed.
RECEIPTCARDHOLDERNAME	Alphanumeric	1-26	No	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.
RECEIPTFORMAT	Explicit	Variable	No	"TEXT", or "TEXT_AND_XML".
VOUCHERSERIALNUMBER	Explicit	Variable	Yes	Serial number of the voucher.
APPROVALCODE	Alphanumeric	6	Yes	The authorization Approval Code.
ORDERID	Alphanumeric	1-50	No	This optional field may be 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.
EBTTYPE	Explicit	Variable	Yes	"FoodStamp". No default value.

## Check Transaction Types

The following section breaks down the different Check Transaction requests.

### Check Transaction Request Field Headers

A header transaction field must be sent for each transaction type supported.

Check Transaction Header Request Fields				
Field	Type	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	"CHECKSALE", "CHECKCREDIT", "CHECKVERIFICATION".
XWEBID	Numeric	12	Yes	This is the ID given to the merchant once they have been enrolled in the system.
XWEBTERMINALID	Numeric	8	Yes	This is the ID given to the terminal once they have been enrolled in the system.
XWEBAUTHKEY	Alphanumeric	32	Conditional	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.
COUNTRYCODE	Numeric	3	No	"840" for USA or "124" for Canada. Defaults to "840".
APIVERSION	Numeric	1	No	Default value is "1". "1" - Legacy functionality is in effect "2" - Updated functionality is in effect See <a href="#">Appendix E – Implement APIVERSION</a> for specific information.

**CHECKSALE Transaction Request Fields (CheckSaleTransaction)**

A Check is accepted for payment of services and processed either as an ACH transaction or a Check21 transaction.

The following fields must be submitted along with the Header Fields for this type of transaction. [View Transaction Request Headers here.](#)

CHECKSALE Transaction Request Fields				
Field	Type	Length	Required	Description
ACCOUNTNUMBER	Numeric	1-17	Conditional	If AccountNumber is used, RoutingNumber must be used as well. AccountNumber cannot be used with Alias.
ROUTINGNUMBER	Numeric	9	Conditional	If RoutingNumber is used, AccountNumber must be used as well. RoutingNumber cannot be used with Alias.
CHECKNUMBER	Numeric	1-15	Conditional	For WEB, TEL, CCD, PPD, CheckNumber is system generated if the check number is not available.
ALIAS	Alphanumeric	10	No	Alias cannot be used with AccountNumber or RoutingNumber.
AMOUNT	Numeric	1-7	Yes	0.01 - 99999.99 (decimal point not required for even dollar amounts).
CHECKVERIFY	Explicit	Variable	No	"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".
ENTRYCLASS	Explicit	3	Yes	"CCD", "PPD", "TEL", or "WEB". If an Alias is used, only PPD, CCD, and WEB entry types are accepted.
NAMEONACCOUNT	Alphanumeric	1-250	Conditional	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 when CreateAlias is set to TRUE.

## CHECKSALE Transaction Request Fields

Field	Type	Length	Required	Description
CREATECHECKALIAS	Explicit	Variable	No	"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.
DLNUMBER	Alphanumeric	Variable	No	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.
ORDERID	Alphanumeric	1-50	No	This optional field may be 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.

**CHECKCREDIT Transaction Request Fields (CheckCreditTransaction)**

A credit is issued to a bank account via the ACH network. The following fields must be submitted along with the Header Fields for this type of transaction. [View Transaction Request Headers here.](#)

CHECKCREDIT Transaction Request Fields				
Field	Type	Length	Required	Description
ACCOUNTNUMBER	Numeric	1-17	Conditional	If AccountNumber is used, RoutingNumber must be used as well. AccountNumber cannot be used with Alias.
ROUTINGNUMBER	Numeric	9	Conditional	If RoutingNumber is used, AccountNumber must be used as well. RoutingNumber cannot be used with Alias.
CHECKNUMBER	Numeric	1-15	No	CheckNumber is system generated if the check number is not available.
ALIAS	Alphanumeric	10	No	Alias cannot be used with AccountNumber, RoutingNumber.
AMOUNT	Numeric	1-7	Yes	0.01 - 99999.99 (decimal point not required for even dollar amounts).
ENTRYCLASS	Explicit	3	Yes	"CCD", "PPD"
NAMEONACCOUNT	Alphanumeric	1-250	Conditional	Used to submit the account holder's name.
DLNUMBER	Alphanumeric	Variable	No	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.
ORDERID	Alphanumeric	1-50	No	This optional field may be 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.
REFERENCEORDERID	Alphanumeric	1-50	Conditional	References the ORDERID of a previously processed transaction. Either REFERENCEORDERID or TRANSACTIONID must be sent in the request.

**CHECKVERIFICATION Transaction Request Fields (CheckVerificationTransaction)**

Verification is run on a check transaction before it is submitted electronically for processing. The verification compares the checking account against a list of 'bad' checking account numbers. If there is no match, the transaction is 'approved'. If there is a match, the transaction is 'declined'. Verification reduces but does not eliminate risk of returned checks for merchants.

The following fields must be submitted along with the Header Fields for this type of transaction. [View Transaction Request Headers here.](#)

CHECKVERIFICATION Transaction Request Fields				
Field	Type	Length	Required	Description
ACCOUNTNUMBER	Numeric	1-17	Conditional	If AccountNumber is used, RoutingNumber must be used as well. AccountNumber cannot be used with Alias.
ROUTINGNUMBER	Numeric	9	Conditional	If RoutingNumber is used, AccountNumber must be used as well. RoutingNumber cannot be used with Alias.
CHECKNUMBER	Numeric	1-15	No	CheckNumber is system generated if the check number is not available.
ALIAS	Alphanumeric	10	No	Alias cannot be used with AccountNumber, RoutingNumber.
AMOUNT	Numeric	1-7	Yes	0.01 - 99999.99 (decimal point not required for even dollar amounts).
DLNUMBER	Alphanumeric	Variable	No	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.
NAMEONACCOUNT	Alphanumeric	1-250	Conditional	Used to submit the account holder's name.
ENTRYCLASS	Explicit	3	Yes	"CCD", "PPD"

## CHECKVERIFICATION Transaction Request Fields

Field	Type	Length	Required	Description
ORDERID	Alphanumeric	1-50	No	This optional field may be 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.

## Check Alias Management Transactions

## Check Alias Management Transaction Request Field Headers

The following Check Alias Management Transaction Request fields, are used with all Check Alias Transaction Types.

## Check Alias Management Transaction Request Field Headers

Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	"CHECKALIASCREATE", "CHECKALIASLOOKUP", "CHECKALIASDELETE".
XWEBAUTHKEY	Alphanumeric	32	Yes	XWeb private key assigned by XWeb. Merchant must present the key to authenticate itself to the Gateway.
XWEBID	Numeric	12	Yes	XWebID authorization credential. This is the ID given to the merchant once they have been enrolled in the system.
XWEBINDUSTRY	Explicit	Variable	No	"Check Services"
XWEBTERMINALID	Numeric	8	Yes	XWebTerminalID authorization credential.
APIVERSION	Numeric	1	No	Default value is "1". "1"- Legacy functionality is in effect "2"- Updated functionality is in effect



## Check Alias Management Transaction Request Field Headers

Field	Value	Length	Required	Description
				See <a href="#">Appendix E – Implement APIVERSION</a> for specific information.

**CHECKALIASCREATE Transaction Request Fields (CheckAliasCreateTransaction)**

This transaction allows the merchant the ability to create a Check Alias to account information securely stored at the OpenEdge Gateway. [View Transaction Request Headers here.](#)

## CHECKALIASCREATE Transaction Request Fields

Field	Type	Length	Required	Description
ACCOUNTNUMBER	Numeric	1-17	Yes	Checking Account Number.
ROUTINGNUMBER	Numeric	9	Yes	Bank Routing Number.
NAMEONACCOUNT	Alphanumeric	1-250	Conditional	Used to submit the account holder's name.

**CHECKALIASLOOKUP Transaction Request Fields (CheckAliasLookupTransaction)**

This transaction allows the merchant to lookup a pre-existing account number and transit number that is on-file at the OpenEdge Gateway. [View Transaction Request Headers here.](#)

## CHECKALIASLOOKUP Transaction Request Fields

Field	Type	Length	Required	Description
ALIAS	Alphanumeric	10	Yes	The Alias is the reference to the original checking account/routing number to be looked up.

**CHECKALIASDELETE Transaction Request Fields (CheckAliasDeleteTransaction)**

This transaction allows the merchant to delete a pre-existing account number and transit number that is on-file at the OpenEdge Gateway. [View Transaction Request Headers here.](#)

## CHECKALIASDELETE Transaction Request Fields

Field	Type	Length	Required	Description
ALIAS	Alphanumeric	10	Yes	The Alias is the reference to the original checking account/routing number to be deleted.

## Alias Management Transactions

The following section breaks down the various Alias Management transaction types.

### Alias Management Transaction Request Field Headers

The following Alias Management Transaction Request fields, are used with all Alias Transaction Types.

Alias Management Transaction Request Field Headers				
Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	"ALIASCREATE", "ALIASUPDATE", "ALIASLOOKUP", "ALIASDELETE".
XWEBAUTHKEY	Alphanumeric	32	Yes	XWeb private key assigned by XWeb. Merchant must present the key to authenticate itself to the Gateway.
XWEBID	Numeric	12	Yes	XWebID authorization credential. This is the ID given to the merchant once they have been enrolled in the system.
XWEBINDUSTRY	Explicit	Variable	No	"RETAIL", "RESTAURANT", "ECOMMERCE", or "MOTO"
XWEBTERMINALID	Numeric	8	Yes	XWebTerminalID authorization credential.
PROMPTBATTERYSTATUS	Explicit	Variable	No	"True" or "False". This is the battery life status of the Bluetooth device. If not sent, defaults to "False".
APIVERSION	Numeric	1	No	Default value is "1". "1" - Legacy functionality is in effect "2" - Updated functionality is in effect See <a href="#">Appendix E – Implement APIVERSION</a> for specific information.

**ALIASCREATE Transaction Request Fields**

An Alias Create transaction generates an Alias for cardholder data which is securely stored at the OpenEdge gateway. [View Transaction Request Headers here.](#)

**NOTE:**

All of the payment card data fields in this table are "conditional" in that one set (and one set only) of payment card data is required for this transaction type.

**ALIASCREATE Transaction Request Fields**

Field	Type	Length	Required	Description
ADDRESS	Alphanumeric	1-50	Conditional	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.
DEFAULTLANGUAGE	Explicit	Variable	No	"English" or "French". Default language for EMV or Interac transactions. Language is defaulted to "English" if no default language is set.
ZIP	Alphanumeric	1-20	Conditional	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.

**ALIASUPDATE Transaction Request Fields**

An Alias Update transaction updates the cardholder data for a token that is stored at the OpenEdge gateway. [View Transaction Request Headers here.](#)

**NOTE:**

All of the payment card data fields in this table are "conditional" in that one set (and one set only) of payment card data is required for this transaction type.

**ALIASUPDATE Transaction Request Fields**

Field	Type	Length	Required	Description
ADDRESS	Alphanumeric	1-50	Conditional	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.
ZIP	Alphanumeric	1-20	Conditional	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.
ALIAS	Alphanumeric	Variable	Yes	The Alias is the reference to the original account number.
EXPDATE	Numeric	4	Conditional	Credit card expiration date in a MMY format.

**ALIASLOOKUP Transaction Request Fields**

An Alias Lookup transaction returns card data (ex. Masked card number, expiration date, card type) for the token that is stored at the OpenEdge gateway. [View Transaction Request Headers here.](#)

**ALIASLOOKUP Transaction Request Fields**

Field	Type	Length	Required	Description
ADDRESS	Alphanumeric	1-50	Conditional	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.
ZIP	Alphanumeric	1-20	Conditional	Cardholder's postal code for AVS. Hyphens are acceptable; all other symbols are removed. Note: ZipCode is only cached with the Alias

**ALIASLOOKUP Transaction Request Fields**

Field	Type	Length	Required	Description
				until a transaction referencing the Alias is processed, up to a maximum of 15 minutes.
ALIAS	Alphanumeric	Variable	Yes	The Alias is the reference to the original account number.

**ALIASDELETE Transaction Request Fields**

An Alias Delete transaction removes the token stored at the OpenEdge Gateway. [View Transaction Request Headers here.](#)

**ALIASDELETE Transaction Request Fields**

Field	Type	Length	Required	Description
ADDRESS	Alphanumeric	1-50	Conditional	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.
ZIP	Alphanumeric	1-20	Conditional	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.
ALIAS	Alphanumeric	Variable	Yes	The Alias is the reference to the original account number.

**PIN Pad Device Transaction Types**

The following section breaks down the various PIN Pad Device transaction types.

**PPDEDITSETUP Request Fields**

Displays the setup and configuration dialog. The setup dialog allows the device type and some device settings to be configured. The PIN Pad device connection can also be tested from the setup dialog. All PIN Pad device functions use the device configured with PPDEditSetup.

PPDEDITSETUP Transaction Request Fields	
Transaction Type	Description
TRANSACTIONTYPE	“PPDEDITSETUP”.
EDITSETUPFILTER	<p>Filters the list of available devices displayed in the Setup screen. Used with the PPDEDITSETUP transaction. See the SUPPORTSFEAUTRE Features section for more information on available features that can be used as filter options.</p> <p>The following filters can be used with the EDITSETUPFILTER field. It is also possible to filter using device features detailed in the SUPPORTSFEATURE features section.</p> <ul style="list-style-type: none"> <li>AllDevices</li> </ul> <p><i>All Devices</i></p> <ul style="list-style-type: none"> <li>LegacyDevices</li> </ul> <p><i>Legacy XCharge Non-EMV devices</i></p> <ul style="list-style-type: none"> <li>Emv</li> </ul> <p><i>EMV enabled devices</i></p> <ul style="list-style-type: none"> <li>RcmDevices</li> </ul> <p><i>RCM supported devices</i></p>

### PPDGETCONFIGUREDDEVICE Request Fields

Returns the currently configured device. Devices are configured using the PPDEditSetup function.

PPDGETCONFIGUREDDEVICE Transaction Request Fields	
Transaction Type	Description
TRANSACTIONTYPE	“PPDGETCONFIGUREDDEVICE”.

### PPDGETDEVICENAME Request Fields

Returns the name of the configured device.

**PPDGETDEVICENAME Transaction Request Fields**

Transaction Type	Description
TRANSACTIONTYPE	“PPDGETDEVICENAME”.

**PPDGETRESULTMESSAGE Request Fields**

Returns the default error description of the error code.

**PPDGETRESULTMESSAGE Transaction Request Fields**

Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	“PPDGETRESULTMESSAGE”
RESULTCODE	Numeric	1-3	Yes	The result code value returned from a previous transaction result. Used with the PPDGETRESULTMESSAGE transaction to retrieve the description for a transaction result.

**PPDGETSERIALNUMBER Request Fields**

Returns the device serial number. **NOTE:** A PPDCLOSE transaction must be sent after the PPDGETSERIALNUMBER transaction.

**PPDGETSERIALNUMBER Transaction Request Fields**

Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	“PPDGETSERIALNUMBER”

**PPDPROMPTCARDSWIPE Request Fields**

Prompts for a card swipe. If the device supports a card swipe, then the device prompts for a card swipe.

**PPDPROMPTCARDSWIPE Transaction Request Fields**

Transaction Type	Description
TRANSACTIONTYPE	“PPDPromptCardSwipe”
LANGUAGE	“French” or “English”. Specifies the language to be used.

**PPDPROMPTSECURECARDSWIPE Request Fields**

Prompts for a secured card swipe. If the device supports a card swipe, then the device prompts for a card swipe.

PPDPROMPTSECURECARDSWIPE Transaction Request Fields				
Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	“PPDPROMPTSECURECARDSWIPE”
LANGUAGE	Explicit	Variable	No	“French” or “English”. Specifies the language to be used.
XWEBAUTHKEY	Alphanumeric	32	Yes	XWeb private key assigned by XWeb. Merchant must present the key to authenticate itself to the Gateway.
XWEBID	Numeric	12	Yes	XWebID authorization credential. This is the ID given to the merchant once they have been enrolled in the system.
XWEBTERMINALID	Numeric	8	Yes	XWebTerminalID authorization credential.



**PPDPROMPTDEBITORCREDIT Request Fields**

Prompts for the card type, either Debit or Credit. If the PIN Pad device supports a Debit or Credit prompt then the device prompts for Debit or Credit in addition to a dialog that prompts for Credit or Debit. Either the device or dialog can be selected. If the device does not support a Debit or Credit prompt then only a dialog prompt displays.

PPDPROMPTDEBITORCREDIT Transaction Request Fields	
Transaction Type	Description
TRANSACTIONTYPE	“PPDPROMPTDEBITORCREDIT”
LANGUAGE	“French” or “English”. Specifies the language to be used.
SUPPRESSUIPROMPTS	“True” or “False”. Default is “True” if the parameter is sent. If it is not sent, the desktop user interface is not suppressed. SUPPRESSUIPROMPTS affects the Credit or Debit, Yes/No and Signature confirmation windows.

**PPDPROMPTYESNO Request Fields**

Prompts the user to select Yes or No. If the PIN Pad device supports a Yes/No prompt then the device prompts in addition to a dialog that prompts for Yes or No. Either the device or dialog can be selected. If the device does not support the prompt then only a dialog prompt displays.

PPDPROMPTYESNO Transaction Request Fields				
Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	“PPDPROMPTYESNO”
LANGUAGE	Explicit	Variable	No	“French” or “English”. Specifies the language to be used.
TEXT	Alphanumeric	Variable	Yes	Text to be displayed on the device screen.
SUPPRESSUIPROMPTS	Explicit	Variable	No	“True” or “False”. Default is “True” if the parameter is sent. If it is not sent, the desktop user interface is not suppressed. SUPPRESSUIPROMPTS affects the Credit or Debit, Yes/No and Signature confirmation windows.

**PPDAPPLYDEVICECONFIGURATION Request Fields**

Applies the PIN Pad device configuration settings in RCM.

PPDAPPLYDEVICECONFIGURATION Transaction Request Fields	
Transaction Type	Description
TRANSACTIONTYPE	"PPDAPPLYDEVICECONFIGURATION"
DEFAULT_CANADIAN_LANGUAGE	"English" or "French". Default language for EMV or Interac transactions. Language is defaulted to "English" if no default language is set.
PPDXMLINPUT	<p>The element that should contain all the method specific XML data to use.</p> <pre>&lt;PPDXMLINPUT&gt;Enter Method Data Here&lt;/PPDXMLINPUT&gt;</pre> <p><b>Example:</b> :&lt;DeviceConfigurationData&gt;        &lt;DeviceName&gt;Ingenico iSC250&lt;/DeviceName&gt;        &lt;SuppressUi&gt;&gt;true&lt;/SuppressUi&gt;        &lt;Settings&gt;          &lt;COM_Port&gt;COM1&lt;/COM_Port&gt;          &lt;Default_Message&gt;Change Text&lt;/Default_Message&gt;        &lt;/Settings&gt;        &lt;SetupActionsToRun&gt;          &lt;DeviceSetupFunctions&gt;TestDevice&lt;/DeviceSetupFunctions&gt;        &lt;/SetupActionsToRun&gt;        &lt;/DeviceConfigurationData&gt;"</p>

**PPDPROMPTSIGNATURE Request Fields**

Prompts for a signature. A device that supports signature capture must be configured as the current PIN Pad device.

PPDPROMPTSIGNATURE Transaction Request Fields				
Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	"PPDPROMPTSIGNATURE"
TITLE	Alphanumeric	Variable	Yes	String value to display on PIN Pad.
DISPLAYCAPTUREDSIGNATURE	Alphanumeric	1	Yes	Causes a signature acquired with the PPDPROMPTSIGNATURE transaction to be displayed on the screen to the clerk after it has been entered by the customer. "True" or "False".
SIGNATUREFILEFORMAT	Explicit	Variable	Yes	Determines the returned signature file type if the request specifies BMP or PNG.
RETURNSIGNATUREFORMAT	Explicit	Variable	Yes	Determines if the signature image is returned as Base64 or is written to a file path, or both.
SIGNATUREFILENAME	Alphanumeric	Variable	Yes	Sets the name of the file where the signature image is saved.
TEXT	Alphanumeric	Variable	Yes	Text to be displayed on the device screen.
SUPPRESSUIPROMPTS	Explicit	Variable	No	"True" or "False". Only suppresses Credit or Debit, Yes/No and Signature confirmation windows. If not sent, defaults to "False".

## PPDDISPLAYTEXT Request Fields

Displays formatted text on the signature capture device. Text can be formatted using the HTML equivalent formatting codes documented below. Only these formatting codes are supported. The number of lines and characters on each line is dependent on the device capabilities. Color codes sent to a device that cannot display colors are stripped out of the text. Text lines are displayed starting with the first line until the screen is full. The text is not scrolled to display additional lines. After using PPDDISPLAYTEXT, submit [PPDCLOSE](#) transaction request before initiating direct RBA integration with device.

PPDDISPLAYTEXT Transaction Request Fields				
Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	"PPDDISPLAYTEXT"
TEXT	Alphanumeric	Variable	Yes	Text to be displayed on the device screen.

HTML Text Formatting		
Description	Start	End
Text Alignment: alignment codes force line breaks. Different alignments cannot be mixed on a single line.	<DIV ALIGN="LEFT"> <DIV ALIGN="CENTER"> <DIV ALIGN="RIGHT"> <CENTER>	<DIV ALIGN="LEFT"> <DIV ALIGN="CENTER"> <DIV ALIGN="RIGHT"> </CENTER>
Text Colors: Multiple colors may be displayed on a single line.	<FONT COLOR="BLACK"> <FONT COLOR="BLUE">	</FONT> </FONT>
Horizontal Line: displayed along on a single line.	<HR>	</HR>
Line Breaks: CR and LF codes are stripped from the text and do not start a new line.	 	</BR>

### Example POS Tender Screen Text:

```
<HR> <CENTER><FONT COLOR="NAVY">Widget Emporium</FONT></CENTER> <HR> Widget SML<BR> <DIV
ALIGN="RIGHT"> 1X $17.45</DIV> Widget XL <DIV ALIGN="RIGHT"><FONT COLOR="RED">(RETURN) 1X $-
18.35</FONT></DIV> Another Widget <DIV ALIGN="RIGHT">2X $7.15</DIV> <BR> </BR> </HR> <FONT
COLOR="BLACK"> <DIV ALIGN="RIGHT">Subtotal: $6.25</DIV> <DIV ALIGN="RIGHT">Tax: $0.50</DIV> <DIV
ALIGN="RIGHT">Total: $6.75</DIV> </FONT> </HR>
```

**GETRCMCURRENTUSERPORT Request Fields**

GETRCMCURRENTUSERPORT is sent through EdgeExpress PC to gather the User Port of the current user.

**GETRCMCURRENTUSERPORT Transaction Request Fields**

Transaction Type	Description
TRANSACTIONTYPE	"GETRCMCURRENTUSERPORT"

**PPDDISPLAYSCROLLINGTEXT Request Fields**

Displays formatted text on the signature capture device. Text can be formatted using the HTML equivalent formatting codes documented below. Only these formatting codes are supported. The number of lines and characters on each line is dependent on the device capabilities. Color codes sent to a device that cannot display colors are stripped out of the text. Text lines are displayed with a screen full of the last lines, anything above is not displayed. The text is not scrolled to display additional lines. After using PPDDISPLAYSCROLLINGTEXT, submit [PPDCLOSE](#) transaction request before initiating direct RBA integration with device.

**PPDDISPLAYSCROLLINGTEXT Transaction Request Fields**

Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	"PPDDISPLAYSCROLLINGTEXT"
TEXT	Alphanumeric	Variable	Yes	Text to be displayed on the device screen.

**PPDPROMPTTIP Request Fields**

Prompts for a tip amount.

PPDPROMPTTIP Transaction Request Fields				
Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	“PPDPROMPTTIP”
AMOUNT	Numeric	1-8	Conditional	Transaction amount. If AMOUNT is used, LANGUAGE must be used as well.
LANGUAGE	Alphanumeric	Variable	Conditional	“French” or “English”. Specifies the language to be used.

**PPDPROMPTTIPEX Request Fields**

Prompts for a tip amount.

PPDPROMPTTIPEX Transaction Request Fields				
Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	“PPDPROMPTTIPEX”
AMOUNT	Numeric	1-8	Conditional	Transaction amount. If AMOUNT is used, LANGUAGE must be used as well.
LANGUAGE	Alphanumeric	Variable	Conditional	“French” or “English”. Specifies the language to be used.

**PPDCLEARCONFIGUREDDEVICE Request Fields**

Clears the current configured device information.

PPDCLEARCONFIGUREDDEVICE Transaction Request Fields	
Transaction Type	Description
TRANSACTIONTYPE	“PPDCLEARCONFIGUREDDEVICE”

**PPDPROMPTMULTIPLECHOICESURVEY Request Fields**

Prompts for a multiple choice survey on the PIN Pad device.

## PPDMULTIPLECHOICESURVEY Transaction Request Fields

Transaction Type	Description
TRANSACTIONTYPE	“PPDPROMPTMULTIPLECHOICESURVEY”
PPDXMLINPUT	<p>The element that should contain all the method specific XML data to use.</p> <pre>&lt;PPDXMLINPUT&gt;Enter Method Data Here&lt;/PPDXMLINPUT&gt;</pre> <p>Example: &lt;PinPadDeviceSurvey&gt;  &lt;ValidationRequired&gt;&gt;false&lt;/ValidationRequired&gt;  &lt;QuestionList&gt;  &lt;PinPadDeviceSurveyQuestion&gt;  &lt;QuestionText&gt;2 - Please Enter Relationship with: John Doe&lt;/QuestionText&gt;  &lt;ResponseOptions&gt;  &lt;string&gt;Spouse&lt;/string&gt;  &lt;string&gt;Parent&lt;/string&gt;  &lt;string&gt;Caregiver&lt;/string&gt;  &lt;string&gt;Uncle&lt;/string&gt;  &lt;string&gt;Aunt&lt;/string&gt;  &lt;string&gt;Child&lt;/string&gt;  &lt;string&gt;Sibling&lt;/string&gt;  &lt;string&gt;Other&lt;/string&gt;  &lt;/ResponseOptions&gt;  &lt;DisplayOrder&gt;2&lt;/DisplayOrder&gt;  &lt;QuestionLayout&gt;Vertical&lt;/QuestionLayout&gt;  &lt;/PinPadDeviceSurveyQuestion&gt;  &lt;PinPadDeviceSurveyQuestion&gt;  &lt;QuestionText&gt;3 - Please Enter Relationship with: Jane Doe&lt;/QuestionText&gt;  &lt;ResponseOptions&gt;  &lt;string&gt;Spouse&lt;/string&gt;  &lt;string&gt;Parent&lt;/string&gt;  &lt;string&gt;Caregiver&lt;/string&gt;  &lt;string&gt;Uncle&lt;/string&gt;  &lt;string&gt;Aunt&lt;/string&gt;  &lt;string&gt;Child&lt;/string&gt;  &lt;string&gt;Sibling&lt;/string&gt;  &lt;string&gt;Other&lt;/string&gt;  &lt;/ResponseOptions&gt;  &lt;DisplayOrder&gt;3&lt;/DisplayOrder&gt;  &lt;QuestionLayout&gt;Vertical&lt;/QuestionLayout&gt;  &lt;/PinPadDeviceSurveyQuestion&gt;</p>

**PPDMULTIPLECHOICESURVEY Transaction Request Fields**

Transaction Type	Description
	<pre> &lt;PinPadDeviceSurveyQuestion&gt;   &lt;QuestionText&gt;1 - Please Enter Relationship with: John   Smith&lt;/QuestionText&gt;   &lt;ResponseOptions&gt;     &lt;string&gt;Spouse&lt;/string&gt;     &lt;string&gt;Parent&lt;/string&gt;     &lt;string&gt;Caregiver&lt;/string&gt;     &lt;string&gt;Uncle&lt;/string&gt;     &lt;string&gt;Aunt&lt;/string&gt;     &lt;string&gt;Child&lt;/string&gt;     &lt;string&gt;Sibling&lt;/string&gt;     &lt;string&gt;Other&lt;/string&gt;   &lt;/ResponseOptions&gt;   &lt;DisplayOrder&gt;1&lt;/DisplayOrder&gt;   &lt;QuestionLayout&gt;Vertical&lt;/QuestionLayout&gt; &lt;/PinPadDeviceSurveyQuestion&gt; &lt;/QuestionList&gt; &lt;/PinPadDeviceSurvey&gt;                     </pre>



**PPDPROMPTMULTIPLECHOICEQUESTION Request Fields**

Prompts for a multiple choice question within the survey on the PIN Pad device.

PPDMULTIPLECHOICEQUESTION Transaction Request Fields	
Transaction Type	Description
TRANSACTIONTYPE	“PPDPROMPTMULTIPLECHOICEQUESTION”
PPDXMLINPUT	<p>The element that should contain all the method specific XML data to use.</p> <pre>&lt;PPDXMLINPUT&gt;Enter Method Data Here&lt;/PPDXMLINPUT&gt;</pre> <p>Example: &lt;PinPadDeviceSurveyQuestion&gt;                      &lt;QuestionText&gt;Please Enter Relationship with: John Doe&lt;/QuestionText&gt;                      &lt;ResponseOptions&gt;                      &lt;string&gt;Spouse&lt;/string&gt;                      &lt;string&gt;Parent&lt;/string&gt;                      &lt;string&gt;Caregiver&lt;/string&gt;                      &lt;string&gt;Sibling&lt;/string&gt;                      &lt;string&gt;Other&lt;/string&gt;                      &lt;/ResponseOptions&gt;                      &lt;QuestionLayout&gt;Horizontal&lt;/QuestionLayout&gt;                      &lt;/PinPadDeviceSurveyQuestion&gt;</p>

**XWEBGETRECEIPT Request Fields**

Retrieves the receipt of a transaction.

XWEBGETRECEIPT Transaction Request Fields				
Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	"XWEBGETRECEIPT"
XWEBAUTHKEY	Alphanumeric	32	Yes	XWeb private key assigned by XWeb. Merchant must present the key to authenticate itself to the Gateway.
XWEBID	Numeric	12	Yes	XWebID authorization credential. This is the ID given to the merchant once they have been enrolled in the system.
XWEBTERMINALID	Numeric	8	Yes	XWebTerminalID authorization credential.
RECEIPTDUPLICATE	Explicit	Variable	No	"True" or "False". Optional field to add "Duplicate Copy" text to the receipt.
TRANSACTIONID	Alphanumeric	Variable	No	References the TransactionID of a previously processed transaction.
ORDERID	Alphanumeric	1-50	No	This optional field may be 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.
REFERENCEORDERID	Alphanumeric	1-50	Conditional	References the ORDERID of a previously processed transaction. Either REFERENCEORDERID or TRANSACTIONID must be sent in the request.

**PPDPROMPTMANUALCARDATA Request Fields**

Prompts user to manually enter the credit card information, such as card number, expiration date, etc.

PPDPROMPTMANUALCARDATA Transaction Request Fields				
Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	“PPDPROMPTMANUALCARDATA”
LANGUAGE	Explicit	Variable	No	“French” or “English”. Specifies the language to be used.
MANUALENTRYOPTION	Numeric	1	Yes	0 - Prompts for Account, Expiration, and CVV 1 - Prompts for Account and Expiration. 2 - Prompts for Account and CVV. 3 - Prompts for just Account.

**PPDPROMPTDEBITPIN Request Fields**

Prompts for the PIN associated with the debit card.

PPDPROMPTDEBITPIN Transaction Request Fields				
Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	“PPDPROMPTDEBITPIN”
AMOUNT	Numeric	1-8	Yes	Transaction amount. Does not include cash back or tip amount.
ACCOUNT	Alphanumeric	Variable	Condition al	Masked account number processed by the transaction

**PPDRESET Request Fields**

Resets the PIN Pad device.

PPDRESET Transaction Request Fields	
Transaction Type	Description
TRANSACTIONTYPE	“PPDRESET”

**PPDCLOSE Request Fields**

Closes the PIN Pad device.

PPDCLOSE Transaction Request Fields	
Transaction Type	Description
TRANSACTIONTYPE	“PPDCLOSE”

**SUPPORTSFEATURE Request Fields**

Returns True if the SUPPORTED feature is supported by the configured device.

SUPPORTSFEATURE Transaction Request Fields				
Field	Value	Length	Required	Description
TRANSACTIONTYPE	Explicit	Variable	Yes	“SUPPORTSFEATURE”
SUPPORTED	Alphanumeric	Variable	Yes	The feature that is being queried for support by EdgeExpress.

**SUPPORTSFEATURE Features**

The configured PIN Pad device dictates the functions that are supported by EdgeExpress and how transactions are processed. These options and capabilities can be queried from EdgeExpress by calling the SUPPORTSFEATURE transaction with desired feature sent in the SUPPORTED parameter. The setup screen can also filter the list of available devices based on supported features using the EDITSETUPFILTER parameter.

The result is returned in the XML result field “SUPPORTED”. A return value of “True” indicates that the feature is supported by the configured device, and a value of “False” indicates it is not supported.

**Features:****AdvisePrinterDown**

Device can alert the user that the printer is down. Used for Canadian Interac debit.

**AutomatedSlideShow**

Device supports an Automated slideshow that does not require slides to be initiated one by one.

**CanadianDebit**

Device supports Canadian Interac debit processing.

**CanadianDebitPin**

Device supports prompting for a Canadian Interac debit PIN.

**CapkFileVersion**

Device supports storage of CAPK file Version.

### Close

Device supports the Close transaction.

### CommMethodSerial

Device supports serial communication and connectivity.

### CommMethodTcpIp

Device supports TCPIP communication and connectivity.

### CommMethodUsb

Device supports USB communication and connectivity.

### ConfirmAmount

Device can display purchase amount confirmation prompt.

### ContactlessSupported

Device supports contactless.

### ContactlessEnabled

Device supports contactless enabled.

### CountryCanada

Device supports Canada processing requirements.

### CountryUs

Device supports USA processing requirements.

### DebitPin

Device supports debit PIN prompting.

### DefaultMessage

Device supports a default message to display on the device screen when idle.

### DeviceCreditMid

Device supports MID values used for credit MAC validation.

### DeviceMid

Device supports MID values used for debit MAC validation.

### DeviceSerialNumber

Device supports returning a serial identification number.

### DisplayResponse

Device supports displaying a response message on the screen.

### DisplayScrollingText

Device displays and scrolls to bottom of custom text.

### DisplayText

Device supports displaying custom text on the screen.

### DeviceUpdate

Device that can query the connected device to verify it has been configured correctly.

### DeviceVerification

Device that can query the connected device to verify that it has been configured correctly.

### DeviceEncryption

Device supports encrypting swipe data.

### Emv

Device supports EMV transaction processing.

### EmvCompleteTransaction

Device supports the EMVCompleteTransaction function for EMV processing.

### EmvConfigureDevice

Device supports the Configuring a device for EMV processing.

### EmvStartTransaction

Device supports the EMVStartTransaction function for EMV processing.

### Init

Device the Init function for initializing the device.

### InitIdlePrompt

Device supports initializing the device to the idle prompt.

### LoadForms

Device supports loading custom forms for display or processing functions.

### MacData

Device supports MAC'ing data for Canadian Interac debit transaction processing.

### ManualSlideShow

Device supports a Manual slideshow that requires each slide to be triggered by the application.

### MultipleChoiceQuestion

Device supports prompting a question to a user with multiple Choices.

### MultipleChoiceSurvey

Device supports surveying a user with multiple questions.

### PromptDebitCredit

Device supports prompting the customer for "Debit or Credit".

### PromptManualCardData

Device supports manual card data entry.

### PromptTip

Device supports prompting for tip.

### PromptTipEx

Device supports tip prompt with optional language code.

### PromptYesNo

Device supports prompt the customer with a Yes/No question.

## ResponseValidation

Device supports validating host responses for Canadian Interac debit.

## SecureDebitPin

Prompt for Pin using SecureCardData.

## ShowLogo

Device supports displaying a default logo on the device screen when idle.

## ShowMessage

Show generalized message on device.

## Signature

Device supports prompting for a signature.

## SignatureEx2

Device supports advanced signature capture.

## SlideShow

Device supports an image slide show when the device is idle.

## Swipe

Device supports manual card swipes.

## Transaction Status Requests

Transaction status requests can be submitted to Remote Client Manager via

[https://localsystem.paygateway.com:21113/RcmService.svc/status?SessionId=\[SessionId\]](https://localsystem.paygateway.com:21113/RcmService.svc/status?SessionId=[SessionId]) once a SessionId has been created for a transaction. To register an integrator-created SessionID, include the following code with any sale transaction request:

```
<OTK> [SessionID] </OTK>
```

### Transaction Status Request Field

Field	Value	Length	Required	Description
SessionId	Alphanumeric	Variable	No	Value generated by integrator application and assigned to individual transactions. Returns the current status of the transaction and can be submitted at any time during or after a transaction.

## Transaction Status Responses

When an existing SessionId is submitted to Remote Client Manger via [https://localsystem.paygateway.com:21113/RcmService.svc/status?SessionId=\[SessionId\]](https://localsystem.paygateway.com:21113/RcmService.svc/status?SessionId=[SessionId]), the current status of the transaction is returned.

The format of the Transaction Status Response is:

```
[Cancellation request status][Globally Unique Identifier][Transaction Status]
```

An example of the Transaction Status Response for a completed transaction, with no cancellation request is:

```
None18de72b7-f8a6-4ce6-9551-bcc1f17a12e5Completed
```

## Transaction Cancellation Responses

Partner applications can submit cancellation requests. A sample cancellation request is:

[https://localsystem.paygateway.com:21113/RcmService.svc/Update?updateParameters=/CancelTransaction%20/SessionId:\[SessionID\]](https://localsystem.paygateway.com:21113/RcmService.svc/Update?updateParameters=/CancelTransaction%20/SessionId:[SessionID])

Cancellation Status Response Fields	
Field	Description
None	Cancellation has not been requested.
Requested	Cancellation has been requested.
Confirmed	Cancellation has been requested, completed, and confirmed.
Failed	Cancellation has been requested and failed.

Transaction Status Response Fields	
Field	Description
Initializing	Transaction is initializing.
Processing	Transaction is processing.
PromptingForCard	The configured device is prompting for a card to be swiped/tapped/inserted.



Transaction Status Response Fields	
Field	Description
Finalizing	Transaction is finalizing.
PromptingForCardRemoval	The configured device is prompting for the inserted card to be removed.
Canceling	Transaction is canceling.
Completed	Transaction has been completed

## XML Request Sample

REQUEST is the root level of the XML. Everything within the EdgeExpress request is contained within this parameter.

```
<REQUEST>
  <TRANSACTIONTYPE>CREDITSALE</TRANSACTIONTYPE>
  <AMOUNT>12.00</AMOUNT>
  <TIP>0.00</TIP>
  <CASHBACKAMOUNT>0.00</CASHBACKAMOUNT>
  <MAXAMOUNT>10000</MAXAMOUNT>
  <XWebId>906000555555</XWebId>
  <XWebTerminalId>90555555</XWebTerminalId>
  <XWebAuthKey>bLg4B6WQKlhYnyaojg8B5rUGUe555555</XWebAuthKey>
  <XWebIndustry>RETAIL</XWebIndustry>
  <RECEIPTSTORENAME>store name</RECEIPTSTORENAME>
  <RECEIPTADDRESS>add 1</RECEIPTADDRESS>
  <RECEIPTADDRESS>add 2</RECEIPTADDRESS>
  <RECEIPTADDRESS>City, ST Zip</RECEIPTADDRESS>
  <RECEIPTPHONE>5555555</RECEIPTPHONE>
  <RECEIPTPOLICY>All gun sales are 100% final. Ammo can
  <RECEIPTPOLICY>be returned if it hasn{SINGLEQUOTE}t been
fired!</RECEIPTPOLICY>
  <RECEIPTPOLICY>Have a Great Day!</RECEIPTPOLICY>
  <RECEIPTFORMAT>TEXT</RECEIPTFORMAT>
  <ALLOWDUPLICATES>T</ALLOWDUPLICATES>
  <DEFAULTLANGUAGE>ENGLISH</DEFAULTLANGUAGE>
  <PROMPTSIGNATURE>T</PROMPTSIGNATURE>
  <DISPLAYCAPTUREDSIGNATURE>F</DISPLAYCAPTUREDSIGNATURE>
</REQUEST>
```

## Transaction Result Info

The EdgeExpress result is always returned in XML format. The result always contains a RESULT and RESULTMSG field. Other result fields conditionally are returned based on the transaction that is processed. Only fields with values are returned in the response.

## Result Format

The result format is as shown below.

```
<Result>
  <RESULT>value</RESULT>
  <RESULTMSG>value</RESULTMSG>
  Additional result fields based on the transaction processed...
</Result>
```

## XML Approved EMV Credit Transaction Result Example

```
<Response>
<RESULT>0</RESULT>
<RESULTMSG>Success</RESULTMSG>
<APPROVEDAMOUNT>1.00</APPROVEDAMOUNT>
<BATCHNO>000034</BATCHNO>
<APPROVALCODE>VI0100</APPROVALCODE>
<ACCOUNT>XXXXXXXXXXXX0010</ACCOUNT>
<CARDTYPE>Visa</CARDTYPE>
<LANGUAGE>ENGLISH</LANGUAGE>
<RECEIPTTEXT>Multi-line receipt text inserted here</RECEIPTTEXT>
<EXPMONTH>12</EXPMONTH>
<EXPYEAR>15</EXPYEAR>
<TRANSACTIONID>000000003597</TRANSACTIONID>
<DATE_TIME>03-19-13 14:17:23</DATE_TIME>
<EMVTRANSACTION>True</EMVTRANSACTION>
```

## </Response> XML Response Fields

### XML Response Fields

Field	Type	Length	Required	Description
ACCOUNT	Alphanumeric	Variable	Conditional	Masked account number processed by the transaction

XML Response Fields				
Field	Type	Length	Required	Description
ADDRESS1	Alphanumeric	0-50	No	First address line.
ADDRESS2	Alphanumeric	0-50	No	Second address line.
ALIAS	Alphanumeric	Variable	Conditional	Ten character alphanumeric id used by XWeb to Alias an account for further transactions.
APPROVALCODE	Alphanumeric	Variable	Conditional	Transaction approval code returned from processing host.
APPROVEDAMOUNT	Numeric	1-8	Yes	Transaction amount approved by the processing host. The approved amount includes any tip amount selected by the customer.
AUTHKEY	Alphanumeric	32	Yes	32 character alphanumeric string used to authenticate.
AVSRESPONSECODE	Alphanumeric	1	Conditional	Response from the AVS lookup.
BATCHAMOUNT	Numeric	Variable	Conditional	Total amount added or deducted in batch transaction.
BATCHNO	Alphanumeric	Variable	Conditional	XWeb gateway batch number for the approved transaction.
BATTERYSTATUS	Numeric	Variable	Conditional	Result for the PROMPTBATTERYSTATUS request.
CARDBALANCE	Numeric	Variable	Conditional	Amount remaining on card after transaction
CARDBRAND	Alphanumeric	Variable	Conditional	Name of card issuer.
CARDBRANDSHORT	Alphanumeric	Variable	Conditional	Shorthand name of card issuer.
CARDCODERESPONSE	Alphanumeric	1	Conditional	Response from the Card Security Code lookup.

XML Response Fields				
Field	Type	Length	Required	Description
CARDHOLDERNAME	Alphanumeric	1-26	No	Name of person card issued to.
CARDTYPE	Alphanumeric	Variable	Conditional	Card type name for the processed card.
CASHBACKAMOUNT	Numeric	1-5	Conditional	Cash back total for purchase.
CONFIGUREDDEVICE	Alphanumeric	Variable	Conditional	PIN Pad device configured in setup. Returned as a result for the PPDGETCONFIGUREDDEVICE transaction. A value of 5 indicates no device is configured.
CONFIGUREDDEVICENAME	Alphanumeric	Variable	Conditional	Name of PIN Pad device configured in setup. Returned as a result for the PPDGETDEVICENAME transaction.
DATE_TIME	Numeric	14	Yes	Transaction Date and Time returned from the processing host in MM-DD-YY HH:MM:SS format.
DEBITORCREDIT	Alphanumeric	Variable	Conditional	Result for the PPD_PROMPT_DEBITORCREDIT transaction prompt.
DEDICATEDFILENAME	Hexadecimal	10-13	No	EMV Dedicate File name - Used for receipts.
DEVICEENCRYPTEDDATA	Alphanumeric	Variable	Conditional	Encrypted track data read from MSR swipes or manual entry.
DEVICERESULT	Alphanumeric	Variable	Conditional	Result if the device declines the transaction.
EMVTAGS	Alphanumeric	Variable	Conditional	Tag Names as specified by EMV Co.
EMVTRANSACTION	Alphanumeric	Variable	Conditional	Returns "True" if the card processed was an EMV card.

XML Response Fields				
Field	Type	Length	Required	Description
EXPMONTH	Numeric	2	Conditional	Expiration month for the processed card.
EXPYEAR	Numeric	2	Conditional	Expiration year for the processed card.
GATEWAYOFFLINEAMOUNTLIMIT	Numeric	Variable	Conditional	Amount registered at the gateway for offline processing limits. Indicated the maximum amount allowed for offline transactions.
GATEWAYSTATUS	Alphanumeric	Variable	Conditional	Gateway status indicator - use to indicate the status of the processing gateway.
HASSIGNATURE	Explicit	Variable	Conditional	Boolean indicator of whether transaction has signature at gateway.
HOSTRESPONSECODE	Alphanumeric	Variable	Conditional	Transaction Response code from processing host. (EGW response code received during transaction processing)
HOSTRESPONSEDESCRIPTION	Alphanumeric	Variable	Conditional	Transaction Response description from processing host. (EGW response description received during transaction processing)
IIASTRANSACTION	Explicit	Variable	No	IIAS Transaction type. Applies to Credit Card Purchase transactions only. Boolean indicator of whether request was processed as an FSA/IIAS transaction.
INDUSTRY	Explicit	Variable	Conditional	Specifies industry type. Either "RETAIL", "RESTAURANT", "ECOMMERCE", or "MOTO".
LANGUAGE	Alphanumeric	Variable	No	The language that was used when processing the card. The language is used for

XML Response Fields				
Field	Type	Length	Required	Description
				device prompts and for the receipt text.
MASKEDFEDERALTAXID	Alphanumeric	Variable	Conditional	Masked Federal Tax ID.
MID	Alphanumeric	Variable	Yes	Merchant account for this transaction.
NUMBEROFRECEIPTS	Numeric	Variable	Conditional	Number of receipts returned in a GetReceiptIDs call.
NUMBEROFSECURITYQUESTIONS	Alphanumeric	Variable	Conditional	Number of Security Questions available for a merchant portal user.
NUMBEROFTERMINALS	Numeric	Variable	Conditional	Number of terminals assigned to a user when querying merchant portal credentials.
OFFLINEENROLLED	Alphanumeric	Variable	Conditional	Boolean indicator to identify if a processing account is enrolled in offline processing.
PINBLOCK	Alphanumeric	Variable	Conditional	Encrypted DUKPT PIN data
PINKEY	Alphanumeric	16	Conditional	KSN for PIN DUKPT encryption
POSSEQUENCENO	Numeric	2	Conditional	Canadian debit POS sequence number for the terminal.
PROCESSORID	Alphanumeric	Variable	Conditional	Gateway processor identifier for transaction.
RECEIPTTEXT	Alphanumeric	Variable	Conditional	Multi-line, formatted receipt text.
RESPONSECODE	Alphanumeric	Variable	Conditional	Host response code.
RESPONSEDESCRIPTION	Alphanumeric	Variable	Conditional	Host response description
RESULT	Numeric	1-3	Yes	EdgeExpress result code. See 'Result Codes'
RESULTMSG	Alphanumeric	Variable	Yes	EdgeExpress result code. Value may be dynamically generated.

XML Response Fields				
Field	Type	Length	Required	Description
SECURITYQUESTION	Alphanumeric	Variable	Conditional	Returns the first security question on file for the selected user.
SECURITYQUESTIONID	Alphanumeric	Variable	Conditional	Returns the ID number of the security question currently in use for the selected user.
SELECTEDRESPONSE	Numeric	Variable	Conditional	PPD Multiple Choice Question or Survey Response.
SERVICECODE	Alphanumeric	1-3	Conditional	Service code from track data
SIGNATUREFILENAME	Alphanumeric	Variable	Conditional	File name of signature capture image.
SIGNATUREFORMAT	Alphanumeric	Variable	Conditional	Image format of signature capture image - bmp/png.
SIGNATUREIMAGE	Alphanumeric	Variable	Conditional	Base 64 encoded signature image.
SUPPORTED	Alphanumeric	Variable	Conditional	SUPPORTSFEATURE result - True/False.
TERMINALID	Alphanumeric	Variable	Conditional	Terminal ID.
TERMINALNAME	Alphanumeric	Variable	Conditional	Terminal name.
TERMINALNICKNAME	Alphanumeric	Variable	Conditional	Terminal nick name.
TERMINALTYPE	Alphanumeric	Variable	Conditional	Terminal type.
TIPAMOUNT	Numeric	1-8	Conditional	Tip amount.
TRANSACTIONID	Alphanumeric	Variable	Conditional	Host transaction ID.
USERROLE	Alphanumeric	Variable	Conditional	User Role.
VOICEAUTHNUMBER	Alphanumeric	Variable	Conditional	Voice authorization phone number.
XWEBID	Alphanumeric	Variable	Conditional	XWeb ID.
YESORNO	Alphanumeric	1	Conditional	Returns "Yes" or "No".



XML Receipt Response Fields

ReceiptXml Response Fields				
Field	Type	Length	Required	Description
MerchantHeader	Alphanumeric	Variable	Conditional	Merchant Header.
MerchantName	Alphanumeric	Variable	Conditional	Merchant Name.
MerchantAddress	Alphanumeric	Variable	Conditional	Merchant Address.
MerchantPhone	Alphanumeric	Variable	Conditional	Merchant Phone.
MerchantID	Alphanumeric	Variable	Conditional	Merchant ID.
BatchNumber	Alphanumeric	Variable	Conditional	Batch Number.
TransactionID	Alphanumeric	Variable	Conditional	Transaction ID.
ReceiptNumber	Alphanumeric	Variable	Conditional	Receipt Number.
TransactionType	Alphanumeric	Variable	Conditional	Transaction Type.
Clerk	Alphanumeric	Variable	Conditional	Clerk.
TransactionDateTime	Alphanumeric	Variable	Conditional	Date and time stamp of the transaction.
CardType	Alphanumeric	Variable	Conditional	Card Type.
CardNumber	Alphanumeric	Variable	Conditional	Masked Card Number.
EntryLegend	Alphanumeric	Variable	Conditional	"CHIP READ", "MAG STRIPE", or "MANUAL".
EntryMethod	Alphanumeric	Variable	Conditional	"SWIPED", "MANUAL", "CONTACT", "CONTACTLESS", or "FALLBACK".
OriginalAuthCode	Alphanumeric	Variable	Conditional	Original Auth Code.
ApprovalCode	Alphanumeric	Variable	Conditional	Approval Code.

ReceiptXml Response Fields				
Field	Type	Length	Required	Description
SequenceNumber	Alphanumeric	Variable	Conditional	POS Sequence Number.
AccountType	Alphanumeric	Variable	Conditional	Account Type.
CardBalance	Alphanumeric	Variable	Conditional	Card Balance.
SalesTax	Alphanumeric	Variable	Conditional	Sales Tax.
ApplicationIdentifier	Alphanumeric	Variable	Conditional	Application Identifier ("AID").
TerminalVerificationResults	Alphanumeric	Variable	Conditional	Terminal Verification Results ("TVR").
AuthorizationResponseCode	Alphanumeric	Variable	Conditional	Authorization Response Code.
Subtotal	Alphanumeric	Variable	Conditional	Subtotal, could be a blank line or a value.
Tip	Alphanumeric	Variable	Conditional	Tip, could be a blank line or a value.
CashbackAmount	Alphanumeric	Variable	Conditional	Cashback Amount.
TransactionReferenceNumber	Alphanumeric	Variable	Conditional	Transaction Reference Number.
TotalAmount	Alphanumeric	Variable	Conditional	Total Amount, could be a blank line or a value.
LineItems	Alphanumeric	Variable	Conditional	Returns the items submitted in the "ReceiptLineItems". If no items are submitted in the "ReceiptLineItems", then "Description: _____" is returned.
ApplicationPreferredName	Alphanumeric	Variable	Conditional	Application Preferred Name. ("AID Name")
ApplicationLabel	Alphanumeric	Variable	Conditional	Application Label.

ReceiptXml Response Fields				
Field	Type	Length	Required	Description
Verbiage	Alphanumeric	Variable	Conditional	Transaction Verbiage, such as 'APPROVED', 'DECLINED', etc.
SignatureLine	Alphanumeric	Variable	Conditional	Signature Line.
SignatureText	Alphanumeric	Variable	Conditional	Text below signature line.
AuthorizationAgreement	Alphanumeric	Variable	Conditional	Authorization Agreement.
PinVerificationText	Alphanumeric	Variable	Conditional	Information on PIN Verification.
ValidationCode	Alphanumeric	Variable	Conditional	Validation Code.
MerchantPolicy	Alphanumeric	Variable	Conditional	Merchant Policy.
MerchantFooter	Alphanumeric	Variable	Conditional	Merchant Footer.
CopyLabel	Alphanumeric	Variable	Conditional	Copy label. Either "****Customer Copy**** Retain this copy for statement verification", or "MERCHANT COPY". Only returned if ReceiptCopyLabel was set.
EMVTags	Alphanumeric	Variable	Conditional	Contains the section of EMV Tags required when printing an offline chip decline receipt.
ApplicationCryptogram	Alphanumeric	Variable	Conditional	Application Cryptogram. ("AC")
ApplicationTransactionCounter	Alphanumeric	Variable	Conditional	Application Transaction Counter. ("ATC")
TransactionStatusInformation	Alphanumeric	Variable	Conditional	Transaction Status Information. ("TSI")
OrderID	Alphanumeric	Variable	Conditional	Returns the Order ID, if one was passed.

## Result Codes

The EdgeExpress library returns a numeric result code value based on the result of the function or transaction. The result code is returned in the XML "RESULT" field. The XML "RESULTMSG" field contains a free form description of the result code. The RESULTMSG value may change based on the reason for a decline or error.

Result format:

```
<Response>
```

```
<RESULT>value</RESULT>
```

```
<RESULTMSG>value</RESULTMSG>
```

*Additional result fields depending on the transaction processed*

```
</Response>
```

EdgeExpress Result Codes	
Response Code	Response Description
0	Success
1	NotSupportedByDevice
2	CommError
3	Canceled
4	Fail
5	NoDeviceConfigured
6	DeviceNotConfigured
7	DeviceInitError
8	InvalidCardType
9	InvalidCcNumber
10	InvalidAmount
11	InvalidTrack2
12	Declined
13	Error Reading Chip
14	Unsupported Card
15	Error Reading Chip
16	Device Timed Out

EdgeExpress Result Codes	
Response Code	Response Description
17	Function Cancelled
18	Mac Failure
19	Card Blocked
20	Fallback from Contactless
100	MissingRequiredField
101	ImproperDataFormat

## Appendix A – Hardware Functionality Matrix

The matrix shown below contains information on the functionality of the Ingenico EMV Card Readers.

Hardware Functionality Matrix		
Features	Supported/Not Supported	
Ingenico iPP320	EMV Support	X
	Card Swipe Support	X
	PIN Entry Support	X
	Signature Support	
	Canadian Processing Support	
Ingenico iPP320 (Canada)	EMV Support	X
	Card Swipe Support	X
	PIN Entry Support	X
	Signature Support	
	Canadian Processing Support	X
Ingenico iSC250	EMV Support	X
	Card Swipe Support	X
	PIN Entry Support	X
	Signature Support	X
	Canadian Processing Support	

Hardware Functionality Matrix	
Features	Supported/Not Supported
Ingenico iSC480	EMV Support <b>X</b>
	Card Swipe Support <b>X</b>
	PIN Entry Support <b>X</b>
	Signature Support <b>X</b>
	Canadian Processing Support
Ingenico iUC285	EMV Support <b>X</b>
	Card Swipe Support <b>X</b>
	PIN Entry Support
	Signature Support
	Canadian Processing Support

## Appendix B - Test Server

EdgeExpress transaction processing can be tested against the OpenEdge Production or Test OpenEdge Gateway servers. Test mode is enabled by adding or modifying the following registry entry.

Key: HKEY\_CURRENT\_USER\Software\XLCloud

Value Name: TestMode

Value Data: "Test"

Processing credentials are specific to each OpenEdge Gateway platform (Prod or Test). OpenEdge Developer Services can assist integrators with credentials for the Test platform.

## Appendix C – FSA/IIAS Transaction Information

This section outlines the EdgeExpress implementation of IIAS/FSA transactions and the modifications required by a POS to add support for IIAS/FSA transactions. The SIGIS IIAS Trans-Data Retention Specification document should be referenced for additional specification information.

The OpenEdge Gateway implementation and support for IIAS/FSA transactions has influenced how EdgeExpress and integrating POS applications must support IIAS/FSA transactions. A few of the highlights are as follows:

- Partial approvals based on funds available on the FSA card must be supported.
- IIAS/FSA transactions are supported with Sale transactions only. Debit is not supported.
- Void transactions must be support to back out partially approved transactions.

### Implementing FSA/IIAS

The POS has two options for implementing IIAS/FSA support. The first option allows the POS to determine if the account number is an FSA card. The second option requires EdgeExpress to determine if the card is an FSA card at the time the transaction is processed. Option #2 is recommended for EdgeExpress integrations.

#### Option #1: POS BIN Lookup

1. Clerk scans items into POS
2. Customer swipes FSA card
3. POS determines card is an FSA card based on a BIN range lookup.
4. POS validates that items being charged to FSA card are eligible by comparing UPC number to an Eligible Medical Items List as published by the SIGIS
5. POS breaks non-compliant items off into a separate tender or removes them completely from the tender
6. POS processes the transaction using EdgeExpress. POS sends flags to EdgeExpress indicating that this is an FSA SIGIS compliant transaction and that the items have been validated
7. EdgeExpress processes the transaction with OpenEdge Gateway with a properly formatted transaction.
8. EdgeExpress returns the results to the POS
9. POS determines from EdgeExpress result if the transaction was partially approved because of insufficient funds available on the card. The POS/Clerk must determine by asking the customer if the remaining transaction amount is handled with a separate tender, or if the partial approved amount is reversed. If the customer wants it reversed, the POS sends a Void transaction to EdgeExpress to reverse the entire transaction.
10. POS processes additional non-eligible items on a separate tender using a non-FSA card or other tender type.
11. POS prints a receipt flagging eligible FSA items on the receipt

#### Option #2 EdgeExpress BIN Lookup (Recommended for EdgeExpress)

1. Clerk scans items into POS
2. Customer swipes FSA card



3. POS validates that items being charged to FSA card are eligible by comparing UPC number to an Eligible Medical Items List as published by the SIGIS
4. POS processes the transaction using EdgeExpress. POS sends flags to EdgeExpress indicating the total amount (Eligible + non eligible) and the eligible only amount
5. EdgeExpress determines if the account number is an FSA card. If it is an FSA card the eligible amount is processed, otherwise the total amount is processed.
6. EdgeExpress processes the transaction with OpenEdge Gateway with a properly formatted transaction.
7. EdgeExpress returns the results to the POS.
8. POS determines from EdgeExpress result the amount that was processed and whether the account was an FSA card. Some different scenarios are as follows
  - Non FSA Card. Total Amount approved.
  - FSA Card. Total = eligible. Full amount approved.
  - FSA Card. Total = eligible. Eligible amount partially approved. Additional funds required for eligible items.
  - FSA Card. Total <> eligible. Full eligible amount approved. Additional funds required for non-eligible amount.
  - FSA Card. Total <> eligible. Eligible amount partially approved and non-eligible amount not approved. Additional funds required for remaining eligible and non-eligible amount.
9. The POS/Clerk must determine if a partial approved amount is reversed or accepted. If the customer wants it reversed, the POS sends a Void transaction to EdgeExpress to reverse the FSA transaction.
10. POS processes additional eligible and/or non-eligible items on a separate tender using another card or tender type.
11. POS prints a receipt flagging eligible FSA items on the receipt

## Eligible Cart Items

An eligible item validation must be performed by the POS to determine which items in the cart are authorized for an IIAS/FSA transaction. The POS must maintain the eligible item list and perform the validation. EdgeExpress does not provide support for this requirement.

## EdgeExpress IIAS/FSA Transaction Parameters

EdgeExpress Parameters Used for IIAS/FSA transactions		
Field	Element/Parameter	Description
IIAS Transaction Status	IIASTRANSACTION	Flags a sale transaction as an IIAS/FSA transaction. Options are: "T" IIAS/FSA transaction with a pre-verified FSA account number "F" Not an IIAS/FSA transaction "U" Unknown. EdgeExpress looks up the account to determine if it is an FSA account. If an FSA account, the IIASAUTHORIZEDAMOUNT value is authorized, otherwise the AMOUNT value is authorized. If EdgeExpress is unable to lookup the account the entire transaction is rejected. "V" Verify. EdgeExpress lookup the account and process the transaction if the account is an FSA account. The transaction is rejected if the account is not an FSA account.
IIAS Authorized Amount	IIASAUTHORIZEDAMOUNT	IIAS/FSA Authorized amount. Indicates the total dollar amount that has been authorized for an IIAS/FSA transaction. The IIASAUTHORIZEDAMOUNT amount may not be greater than the AMOUNT value. The IIAS/FSA authorized amount value always contains the authorized prescription (IIASRXAMOUNT) and authorized non-prescription amounts.
IIAS Rx Amount	IIASRXAMOUNT	IIAS/FSA prescription amount. Indicates the total dollar amount for prescription items on the IIAS/FSA transaction. The IIASRXAMOUNT value is included in the IIASAUTHORIZEDAMOUNT value. The IIASRXAMOUNT value cannot exceed the IIASAUTHORIZEDAMOUNT value.

## EdgeExpress IIAS/FSA Purchase Transaction Results

All OpenEdge Gateway IIAS/FSA transactions supports partial approvals, so it is possible for the full-authorized amount to not be approved. The amount approved and processed by OpenEdge Gateway is indicated in the APPROVEDAMOUNT field. The additional funds required for IIAS/FSA transactions should be calculated as the requested amount minus the approved amount. The IIASTRANSACTION field in the result indicates if the transaction was processed as an IIAS/FSA transaction (T) or as a standard credit card transaction (F). The TRANSACTIONID field in the result returns the transaction ID that must be used for a Void transaction.

### Void Transaction

If the partially approved amount is unacceptable, then the transaction is required to be reversed. The TRANSACTIONID value is returned in the transaction response in the TRANSACTIONID field.

## Appendix D - AVS & CSC RESPONSE CODES

The following tables list the possible response codes, along with descriptions, for the Address Verification Service, and Card Security Code.

### Address Verification Service (AVS) Response Codes

The Address Verification Service (AVS) helps to prevent fraudulent activity on credit card accounts. The street address and postal code are verified against the address and postal code on file. Below is a table that explains the AVS Response Codes passed back from the payment processor.

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.		

### Card Security Code (CSC) Response Codes

The Card Security Code is a 3 or 4-digit value that is located on the back of the credit card in the signature panel or, for American Express, on the front of the card on the right above the embossed card number. This numeric value – Card Verification Value for Visa, Card Verification Code for Mastercard and Card Identification Code for American Express and Discover – helps the card issuer prevent fraud and helps the merchant reduce liability.

### 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 E – Implement APIVERSION

The release of EdgeExpress Cloud/PC Version 2.5.0 introduces a new request parameter, APIVERSION. This parameter is used to toggle between new and legacy functionalities, as new features are introduced in following releases. This parameter is designed to allow integrators to utilize existing, legacy functionality as they adjust their integration to allow for new functionality; at which time integrators can submit respective values for APIVERSION to employ the functionality of new features. For instance, submitting APIVERSION with the value “1” will not employ functionality of a new feature and submitting the value “2” will. The default value for APIVERSION is “1”.

See the table below for a full list of parameters, the functionalities of which are modified by APIVERSION.

Fields and Functionality Affected by APIVERSION		
Name	APIVERSION Value “1” Functionality	APIVERSION Value “2” Functionality
ALIAS	ALIAS will be created and returned in the response for every transaction request.	ALIAS will <i>not</i> be created and returned in the response for every transaction request. If an alias is desired, include CREATEALIAS in the transaction request.
PROMPTCASHBACK	PROMPTCASHBACK will be ignored.	PROMPTCASHBACK will be used.
CASHBACKLIMIT	CASHBACKLIMIT will be ignored.	CASHBACKLIMIT will be used.
CASHBACKOPTION1	CASHBACKOPTION1 will be ignored.	CASHBACKOPTION1 will be used.
CASHBACKOPTION2	CASHBACKOPTION2 will be ignored.	CASHBACKOPTION2 will be used.
CASHBACKOPTION3	CASHBACKOPTION3 will be ignored.	CASHBACKOPTION3 will be used.
EBTTYPE	On EBTSaleTransaction, is an optional parameter. Defaults to “FoodStamp”.  Will be ignored on EBTReturn and EBTVoucherClear.	On EBTSaleTransaction, is a required parameter. No default value.  Required on EBTReturn and EBTVoucherClear.

## Change History

Change History		
Date	Author	Description
09/12/2019	SRD	<p>Added parameters PROMPTCASHBACK, CASHBACKLIMIT, CASHBACKOPTION1, CASHBACKOPTION2, and CASHBACKOPTION3 to SALE, DEBITSALE and EBTSALE requests.</p> <p>Moved APIVERSION to request field headers for Credit Card, Debit Card, EBT, Check, Check Alias and Alias transactions.</p> <p>Updated CASHBACKAMOUNT to only allow a length of 5, up to \$999.99.</p> <p>Updated EBTTYPE to be required on EBTSALETRANSACTION, and no longer has a default value.</p> <p>Added EBTTYPE to EBTRETURN and EBTVOUCHERCLEAR.</p>
06/06/2019	NSC	<p>Added APIVERSION and CREATEALIAS fields to CREDITSALE, CREDITAUTH, and CREDITOFFLINECAPTURES requests</p> <p>Added <a href="#">Appendix E – Implement APIVERSION</a>.</p>
01/09/2019	NSC	<p>Added parameter LANGUAGE to these requests:</p> <ul style="list-style-type: none"> <li>● PDPROMPTCARDSWIPE</li> <li>● PDPROMPTSECURECARDSWIPE</li> <li>● PDPROMPTYESNO</li> <li>● PDPROMPTMANUALCARDATA</li> <li>● PDPROMPTDEBITORCREDIT</li> </ul> <p>Added parameter DEFAULTLANGUAGE to these requests:</p> <ul style="list-style-type: none"> <li>● ALIASCREATE</li> </ul> <p>Added parameter DEFAULT_CANADIAN_LANGUAGE to request:</p> <ul style="list-style-type: none"> <li>● PPDAPPLYDEVICECONFIGURATION</li> </ul> <p>Added support for DisableManualEntry for Canadian EMV transactions.</p>
11/12/2018	NSC	<p>Clarified instructions for PPDDISPLAYTEXT and PPDDISPLAYSCROLLINGTEXT when used before initiating a direct RBA integration with device.</p>
6/05/2018	NSC	<p>Added Transaction Status Responses, including the following responses:</p> <ul style="list-style-type: none"> <li>● Cancellation status</li> <li>● Initializing</li> <li>● Processing</li> <li>● PromptingForCard</li> <li>● Finalizing</li> <li>● PromptingForCardRemoval</li> <li>● Cancelling</li> <li>● Completed</li> </ul>
3/21/2018	NSC	<p>Added iUC285 device.</p> <p>Updated API to allow “True” and “False” for the following parameters:</p> <ul style="list-style-type: none"> <li>● SUPPRESSUI</li> <li>● RECURRING</li> </ul>

## Change History

Date	Author	Description
		<ul style="list-style-type: none"> <li>● RECEIPTPRINTTIPLINE</li> <li>● ALLOWDUPLICATES</li> <li>● SUPPRESSUIPROMPTS</li> <li>● PARTIALAPPROVALSUPPORT</li> <li>● CHECKVERIFY</li> <li>● CREATECHECKALIAS</li> <li>● PURCHASECARD</li> </ul>
12/07/2017	SRD	Added ORDERID parameter to DEBITSALE, DEBITRETURN, EBTSALE, EBTRETURN, EBTVOUCHERCLEAR, CHECKSALE, CHECKCREDIT, CHECKVERIFICATION, and XWEBGETRECEIPT. Added REFERENCEORDERID parameter to EBTRETURN, CHECKCREDIT, and XWEBGETRECEIPT.
10/19/2017	SRD	Added ORDERID parameter to CREDITSALE, CREDITOFFLINECAPTURE, CREDITAUTH. Added REFERENCEORDERID parameter to CREDITRETURN, CREDITONLINECAPTURE, CREDITUPDATE, CREDITVOID.
10/17/2017	BBF	Added DISABLEDEVICEMANUALENTY to Credit, Debit and EBT Transaction Request Headers.
8/28/2017	BBF	Added SALE Transaction Request fields section. Added SUPPRESSUIPROMPTS to PPD PROMPT YES/NO, PPD PROMPT DEBITOR CREDIT, PPD PROMPT SIGNATURE, CREDITSALE, SALE.
8/22/2017	KDD	Added PPDGETSERIALNUMBER Transaction Type to PIN Pad Device Transaction Type.
08/10/2017	BBF	Added PROMPTBATTERYSTATUS to Credit Card Request Field Headers, Debit Card Request Field Headers, EBT Request Field Headers, and ALIAS Request Field Headers. Updated PPD PROMPT TIP and PPD PROMPT TIPEX Language and Amount request fields. Added EdgeExpress Result Codes 13-20. Updated PPDDISPLAYSCROLLINGTEXT description.
04/04/2017	BBF	Added content type selection to the description of EEC request process.
04/03/2017	BBF	Added Appendix D. Added AVSRESPONSECODE and CARDCODERESPONSE to result fields.
03/29/2017	BBF	Versioned API to "1.1". Removed all references to "LOGLEVEL".
03/21/2017	BBF	Changed XLINKEMVREQUEST and RESPONSES to "<REQUEST>" and "<RESPONSE>".
03/08/2017	BBF	Removed TIPSUPPORT, EBTTYPE, and CASHBACKAMOUNT from EBT Return.



## Change History

Date	Author	Description
		<p>Added TRANSACTIONTYPE to Check Request Field Headers.            Removed references to Check imaging.            Changed AUTHAPPROVALCODE to APPROVALCODE and changed it to required = Yes.            Updated description of AMOUNT for EBT.            Updated description of INVOICENO.            Updated length of AMOUNT for EBT and Check Transactions.            Changed &lt;HR /&gt; and &lt;BR /&gt; to &lt;HR&gt; and &lt;BR&gt;.            Updated description of CREATECHECKALIAS.            Removed TIPSUPPORT from EBT transactions.</p>
03/07/2017	BBF	<p>Added "French" as an option to DEFAULTLANGUAGE.            Added possible values for PROMPTSIGNATURE            Removed references to AddressPreverification and ZIPCodePreverification.            Added possible values to RECEIPTCOPYLABEL.            Fixed typo in description of RETURNSIGNATUREFORMAT.            Added FSA appendix.            Added possible values to TIPSUPPORT.            Removed references to ECI.            Removed POSEQUENCENO.            Added hyperlinks to headers.            Added XWEBGETRECEIPT transaction type.            Added RECEIPTDUPLICATE to Credit and Debit card transaction types.</p>
03/01/2017	BBF	<p>Added RECURRING parameter to CCAuth and CCReturn.            Added RECEIPTFORMAT to CCOOnlineCapture.            Added ALLOWDUPLICATES to CCAuth, CCOOfflineCapture, and CCReturn.            Added RECEIPTSTORENAME to CCReturn.            Added PROMPTSIGNATURE to CCReturn.            Added TITLE to CCReturn.            Removed RECEIPTHEADER and RECEIPTFOOTER from CCVoid.            Removed DEVICEENCRYPTEDDATA from all request fields, added to Result fields.            Removed ALLOWKEYEDFALLBACK from CCSale.            Removed LOGLEVEL from CCSale, CCAuth, CCOOfflineCapture, CCUpdate, and CCReturn.            Added Hardware Feature Matrix, Added TIPSUPPORT to DebitSale.            Updated description of EBT CASHBACKAMOUNT.            Added RECEIPTCARDHOLDERNAME and RECEIPTFORMT to EBT transaction types.            Added DLNUMBER to CheckSale and CheckCredit.            Added System Requirements section.            Removed BANKACCOUNTTYPE parameter from API.            Added CheckAlias Transaction Types.</p>
02/08/2017	BBF	<p>Added GETRCMCURRENTUSERPORT transaction type.</p>
01/25/2017	BBF	<p>Changed "RETURNSIGNATUREFILEFORMAT" to "RETURNSIGNATUREFORMAT".            Updated "RETURNSIGNATUREFORMAT" and "SIGNATUREFILEFORMAT" descriptions.</p>

## Change History

Date	Author	Description
01/12/2017	BBF	<p>Changed "T" and "F" to "True" and "False"</p> <p>Renamed XpressLink2 references to EdgeExpress PC, with exceptions.</p> <p>Changed "RETURNSIGNATUREFORMAT" and "SIGNATUREFILEFORMAT" to "Explicit" Values.</p> <p>Added HTML Text Formatting section.</p> <p>Removed references to RECEIPTDUPLICATE.</p> <p>Removed references to RECEIPTSIGNATURELINE.</p> <p>Added RECEIPTPOLICY to CREDITSALE, RETURN, AUTH, CAPTURE, and DEBITSALE, and RETURN.</p> <p>Added result codes 14, 15, 19, and 20.</p> <p>Changed EMV Devices, to EMV, in the EDITSETUPFILTER description.</p> <p>Removed DEBITKEYCHANGE, DEBITSALEVOID, DEBITRETURNVOID, PPDGETDEVICEMID.</p> <p>Added transaction types for Alias Management, PPD CLEARCONFIGUREDDEVICE, PPD CLOSE, PPD RESET, PPD PROMPT DEBIT PIN, PPD PROMPT MANUAL CARD DATA, PPD PROMPT MULTIPLE CHOICE QUESTION, PPD PROMPT MULTIPLE CHOICES SURVEY, and PPD PROMPT TIP.</p> <p>Change "RECEIPTLINEITEM" to "RECEIPTLINEITEMS".</p> <p>Added CASHBACKAMOUNT to DEBITSALE Transaction Request Fields.</p> <p>Added POSEQUENCENO, and PURCHASECARD.</p> <p>Added LANGUAGE to PPD PROMPT TIP.</p> <p>Added SUPPRESSUI to Credit and Debit Request Headers.</p>
01/12/2017	BBF	Initial documentation.