

PAYMENT GATEWAY TECHNICAL SPECIFICATION AND APPLICATION PROTOCOL INTERFACE

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0 PREFACE

0.1 PURPOSE OF THIS DOCUMENT

#1 This document is to be used by the Development community to integrate Payments and payment processing into their software. By doing so, the developer will allow for payment transactions to occur in their work flow and software for the purposes of improving customer interaction and speed of the sale of goods and services. This is a technical document and while it will assist a larger audience in the capabilities of EdgePay, the primary use is for the development community to execute code to perform such integrations.

0.2 CHANGES AND MODIFICATIONS

Version	Date	Author	Changes and Modifications
1.0	3/10/2018	S. Hoofring	Original Draft
1.1	4/11/2018	S. Hoofring	Release Candidate
1.2	5/16/2018	W. Watley	Added Hosted Pay Page
1.3	5/18/2018	W. Watley	Added Recurring Payment Mgr.
1.4	5/22/2018	W. Watley	Added API Specification
1.5	5/23/2018	W. Watley	Expanded API to include message examples
1.6	6/6/2018	S. Hoofring	Added Pivot Functions
1.7	6/11/2018	S. Hoofring	Added Code examples and completed EdgePay Pivot
1.8	6/19/2018	S. Hoofring W. Watley	Response Code Table, HPP, eCommerce plug-ln's
1.9	6/22/2018	S. Hoofring	Added Summary of all services
1.10	7/16/2018	S. Hoofring	Added Hosted Pay Page
1.11	7/20/2018	W. Watley	Updated Recurring Payment Manager
1.12	08/22/2018	R. Sato	Updated EdgePivot URLs
1.13	9/17/2018	S.Hoofring	Updated API with eCheck options and updates to captureToo method. Updates to Recurring. Updates to HPP. Update to Payment API with cvv2 element.
1.14	9/20	S.Hoofring	Revised Response Code mapping and tables. Updated AVS Response information. Updated Recurring API

1.15	10/12/2018	W. Watley	Update Pivot
1.16	03/11/219	W. Watley	Added Payment Facilitator indicators Added Amex AVS Response Added PayFac Sample Transactions
1.17	10/04/2019	W. Watley	Added Make Recurring during Initial Sale Added RPM Customer Member Username, Member Password and Affiliate fields Added Make Recurring during Initial Sales and Refund with Token Sample Transactions

1 SYSTEM OVERVIEW

1.1 GENERAL FEATUES AND OPTIONS

The EdgePay Payment Gateway is a Payment Services Platform that includes a complete set of Bank Card and ACH payment services for internet, retail, and mobile merchants and businesses.

The Services are flexible by way of the use of a concept called "Action Codes." Action Codes enable industry or product specific features to allow for very basic to complex payment transactions. So, if your needs are for a simple sale type transaction you can enable it in a matter of minutes. If your needs are more complex, say a healthcare auto substantiation transaction then you will enable that Action Code and supporting data.

The system is a Host Based service, meaning that transactions will be processed financially for money movement based upon a daily cut off time. Each day all transactions that are 'Captured' will be presented to the Card Brands or the Federal Reserve to debit or credit the customer and pay the merchant account appropriately. Because the API allows for separate Authorization and Capture transactions you can manage the timing of the financial portion of the transaction when it is appropriate for your business.

The set of Application Protocol Interfaces, (API's), are designed to allow you to integrate payments into your software application. As previously mentioned, they can be for Card Present or Card Not Present situations. If you wish to integrate Card Present, (Point of Sale or Software solution with a Card Reader), please contact our Developers Support Services before you begin your development.

One of the early decisions to consider is will you want to handle, (store, process, or transmit) sensitive data, (credit card numbers or checking accounts) on your server. If yes, the handling this information is governed by the Payment Card Industry. (More information may be obtained at www.pcisecuritystandards.org). This may require a formal audit of your services. If this is something you wish to avoid GET does provide other options such as EdgePay Pivot, a service that can be used in conjunction with this API and avoid PCI audit or certification needs and the risks of manging such data.

The EdgePay API is a RESTful web service utilizing a JSON format of representation. Messages are communicated via HTTP using the POST method.

In addition to providing credit card and ACH services, the API also extends a Recurring Payment Services, Tokenization Services, and Fraud Management Services.

For Recurring Payment Services, the API integrates with the EdgePay Recurring Payment Manager and provides for establishing and managing customers and their respective payment contracts.

For the Tokenization Services the API allows you to request a token, (replacement value), for both credit cards or bank accounts that you can store for future payment uses.

The EdgePay Fraud management Services work in conjunction with or without the use of the EdgePay Processing Center to help you detect risky transactions and make business decisions on acceptance and shipping of goods or services.

In addition to the API, EdgePay's Processing Center provides for all the features described above through a set of user interfaces. The Processing Center also provides real-time reporting as well as options to manage fraud, users, products, and provides a Hosted Pay page option for integration.

1.2 AUTHENTICATION:

To Authenticate payment requests, Global Electronic Technology issues a Merchant Key. This key in included in the header of your POST transaction. You must protect this key and never share or expose it. We will use this value along with your Merchant ID to authenticate all transactions for processing.

1.3 HOST BASED, TIME INITIATED PROCESSING

The system is "Host Based, Time Initiated" for processing Clearing, (Collecting payments from the Card Holder or Check Writer), and Settlement, (Payment collected funds to the Merchant). At the merchant configured cut-off time, all transactions submitted as either 'Sales' or 'Authorized' transactions with corresponding 'Capture' transactions will be processed for payment.

1.4 DUPLICATE CHECKING

EdgePay uses the 'externalRefernceID' in the header and the 'merchantID' in the payload for duplicate checking. If you submit a duplicate transaction within a 3-day period, EdgePay will decline the transaction. We recommend a randomized externalRefernceID versus a serialized method.

1.5 TOKENIZATION

Tokens are unique reference numbers generated upon request and are sent back in the response in place of the credit card account number. Tokens can be used in subsequent transactions in lieu of the credit card number. You can generate tokens during the payment transaction or individually if a payment is not required.

1.6 DEVELOPMENT AND PRODUCTION URL'S

Development

Function URL				
Payment	https://api.edgepay-uat.com/payment			
Refund	https://api.edgepay-uat.com/refund			
Token	https://api.edgepay-uat.com/token			
Recurring	https://api.edgepay-uat.com/recurring/customer/add			

Production

Function	URL			
Payment	https://edgepayapi.com/payment			
Refund	https://edgepayapi.com/refund			
Token	https://edgepayapi.com/token			
Recurring	https://edgepayapi.com/recurring/customer/add			

1.7 INTEGRATION SUPPORT

EdgePay has a dedicated team of integration specialists that are available to assist you through the integration process. They will also generate a merchant key and Id for you when you are ready to start coding. Please contact our team at developersupport@gettrx.com or call us at 888-775-1500

2 SUMMARY OF INTERFACES AVAILABLE AND THEIR USES

2.1 EDGEPAY INTERFACES

EdgePay exposes a list of interfaces, each of which may be used as a 'stand-alone' function or in combination to achieve a certain set of business objectives. Below is a list of each interface and the team's original thoughts on its use. You may find other uses or benefits that can be applied. Please feel free to contact us to discuss other options and uses as we have constructed the system with great flexibility and are always open to discussing your specific business needs.

- 2.1.1 EdgePay API A set of RESTful interfaces to allow for sending in Requests via HTTP 1.1 and receiving responses. The API supports all Payments, including ACH, Refunds of previous transactions, Recurring Payments, and Tokenization of Card or Check data.
- 2.1.2 **EdgePay Pivot** A Library and supporting utility that allows for the exchange of Sensitive Credit Card data at the Consumer's browser for API processing using a token in lieu of the Credit Card information.
- 2.1.3 EdgePay Hosted Pay Page A Payment function that routes the payment from your "Pay" button to our secure Hosted Payment page for inputting payment information, card or echeck. We handle all the processing and deliver a response to a page you design with a Redirect Post back for your server.
- 2.1.4 EdgePay Batch Pay A function within the Processing Center that allows you to upload a batch of payments to process. Using a simple csv file, you can deliver payments, (Ex. Capture transactions for all those items you shipped today) and we are processing in bulk, delivering responses to you back within the Processing Center reporting within minutes.
- 2.1.5 EdgePay Recurring Payment Manager Through the Processing Center you create Billing Plans that represent products or services or offers. Then you attached Contracts and Customers to those Billing Plans and we will bill the customers for you!
- 2.1.6 EdgePay Token Service Either through the Processing Center of via our RESTful API we provide you the ability to input either Credit Card, Debit Card, or Checking Account information and we return you a 16-digit token you can safely store for making future payment requests.
- **2.1.7** EdgePay eCommerce Plug In's Use one of our Plug-in's with your eCommerce site to support payment processing. The plug-in works in

- conjunction with our Hosted Payment page and automates the features to simplify the start-up process.
- 2.1.8 EdgePay Fraud Management Service We provide you a tool set within our Processing Center to allow you to establish Static and Dynamic filters to analyse payment transactions while they are happening. Transactions caught by the filter will be displayed for your review. Additionally, we have an Enhanced version that can identify a computer to allow you to filter based on this dimension for decisioning.

3 EDGEPAY API, (APPLICATION PROTOCAL INTERFACE)

WORKING TOGETHER!

3.1.1 Introduction

The EdgePay Application Protocol Interface is a series of separate methods and associated URL's to process payment information. They are:

- Payment Making a Payment request, which can include:
 - Authorization Request
 - Capture Request
 - Sale Request (Both and Auth and Capture together)
 - o AVS Only
 - o CVV Only
 - Adjust an Amount
 - Card as well as ACH
- Refund Revere all or part of a previous transaction. They include"
 - Reversing an Authorized Transaction
 - Voiding a Captured Transaction that has not yet settled
 - Updating the Amount on a Transaction that was not yet previously settled
 - Crediting a Previously settled transaction
- Token Converting a Credit Card or Checking Account information with a Token that may be used for you to store locally and then use later in the Payment, Refund, or Recurring API.
- Recurring This interface allows you via API to add Contract and Customers to previously established Billing Program via our Processing Center. As well as adding recurring payment during the initial payment request

These interfaces are used by your server and systems to accept payments for goods and services your software or business supplies. Transactions processed via these interfaces are associated with a Merchant Account that has been previously implemented and approved by GET. Once the transactions are completed and approved, the GET Back-End systems will Clear the money, (taking it from the Card Holder or Check Writer) and Settle the money into the Merchant's Settlement Bank Account.

If you wish to get started please read on. But, once you are ready for Production you will need to call us for a quick certification and setup an account in Production. At that point we will begin to move money for you!

You can reach us at:

888.777.1500 - Developers Support

Or at Developersupport@gettrx.com

3.1.2 EdgePay Payment API

The Payment API is a RESTful and Stateless Application Protocol Interface that utilizes a HTTP Header for Authentication and a JSON body for the required data to generate a Payment Request. The system will always prepare a Payment Response and return it to your server.

The Payment API carries a deep, rich set of functions and uses a concept called "Action Codes." These Action Codes allow you to expand or contract your JSON Body according to either your specific needs or for the specific needs of a transaction. This way, you can construct the minimum data set required to process your transaction.

Before you begin, it may be important to consider a few questions to help guide your work. We find by answering these few questions first it greatly helps in selecting the right strategy and build the right tactical implementation.

3.1.3 Before You Begin Q&A

The Payment function has evolved over 50+ years. Some of that change has occurred because of new technology, (Like the Internet, or the ATM Machine). Others have occurred as the Card Brands began to look at their customers differently. This combination of dimensions can create some uncertainty in choosing the best path. Below are some topics with insights to help guide you.

TOPIC	DISCUSSION
Authorize and Capture or Sale?	The Credit Card system is a 2-message system with Authorization preceding Capture. Money only moves after Capture. There are some good reasons for a 2-message system like Tip Adjust or if you ship your goods or deliver your services later then the Authorization Date/Time. But, if everything happens all at once, consider a Sale. With this message we will automatically generate the Capture for you using a pre-determined cut off time.
Tokenization	Do you want to store Credit Card or Banking information on your server? If the answer is no then request a Token, either separately or in the Payment request and we will generate a Token for you and store the Card or Checking Account information for future reference. Many customers place this on their Customer Information and then enable the users or systems to reuse the Token for processing future 1-time or recurring payments.
Verification Only	Sometimes verifying a Card by using Address Verification, (AVS) or the Security Code (CVV) can be helpful to your business. These a zero-amount transaction but, tell you that the Card Holder knows their zip code or Security Code and positions you for a Payment with more confidence later.
Don't know the Totals yet?	Sometimes the Total Amount cannot be determined at Authorization. You can adjust the amount with the Capture transaction or, you can also use the Adjust function to set the amount properly. Think about your work flow then design a pattern that works best for you!
I don't want any Card Data	If you present to users in a Browser and do not want to handle Card data, then consider EdgePay Pivot. This Library/Utility will replace the Card Data even before it hits your server.
Are there any special data needs for my business?	Some businesses and in some cases some transactions will benefit from more information in the transaction. These data enhancements work to reduce Interchange, the fees the Card Brands charge all Merchants for Card Acceptance.

eCommerce or Keyed Transactions – To get the best Interchange rate for transactions from the internet or, keyed such as Mail Order or Telephone Order you must include the Billing Address, Billing City, Billing State, and Billing Zip. Additionally, you can add the Security Code (CVV)
for improving the Authorization and rates.
Recurring Transactions – If you submit transactions in a recurring basis such as a monthly membership use the Recurring Action Code and Fields to optimize both Interchange and Approval Rates. Issues, we find, view Recurring transactions slightly different then 1-time transactions.
HealthCare Transactions – If you take FSA or HSA Credit Card (Health Savings Accounts), then you should consider the HealthCare Action Code and supporting fields.
Level 2 – If you accept Business Credit Cards or Purchasing Cards, you can include Tax amount and Po Number to qualify for up to ½% savings on Interchange rates for those Cards
Level 3 – Much Like Level 2, Level 3 will save even more on Interchange for Business to Business transactions. The amount of data for level 3 is much bigger and typically involves a System to System approach. If you process B2B and can map Level 3, there is good opportunity for savings!
Tips – If your business takes tips then Consider and Auth and Capture and adjust the Amount either on the Capture or, as an Adjustment that will mark the transaction as Captured.

CONCLUSIONS: For some circumstances you may choose to solve your Payment needs through multiple interfaces:

- You can use Pivot to gather a key via browser and avoid Card Data
- You can use the Payment API to generate Authorizations, Captures, Tokens, or Recurring payments
- You can use Processing Center to Capture transactions after they have been shipped or through the API

 Use BatchPay to upload Credits nightly from the system and let us process over night

Make yourself familiar with all the interfaces and tools and select the right combination that most benefits your customers!

3.2 PAYMENT API

Below is the layout for the Payment Request Header

3.2.1.1 Payment Header

Header	Character	Min - Max	Notes
POST /payment HTTP/ 1.1	AN		Current HTTP version
HOST: api.edgepay-uat.com/payment	AN		The API Request location
Content-Type: application/json	AN		
merchantKey: E3DFE3D0150EB516F4E351CE7FE5A2FB7 99B320BDC5D523B	AN	48	This is a TEST KEY. Please use for testing purposes only
externalRefernceID: 1234561523473261	N	16 - 19	Create your own ID using your phone number and increment!
transactionDate: 2018-05-23T02:00:00	Calendar	20	Reset this to today UTC!

3.2.1.2 The Payment JSON Body - The Body of the Payment request will vary according to your specific business needs. Some items marked as BOLD are required but the others are Conditional or Optional based on your specific business or transaction needs. Let start with a few simple examples:

Simple Manual Entry Authorization Transaction with cURL.

Feel free to update the externalReferenceID using your phone number and increment and the transactionDate to today UTC

Here is a Java Example:

- OkHttpClient client = new OkHttpClient();
- MediaType mediaType = MediaType.parse("application/octet-stream");
- 3. RequestBody body = RequestBody.create(mediaType, "{ \r\n \"merchantID\":\"6320340123456900\",\r\n \"terminaIID\":\"88800000282601\",\r\n \"paymentDataInput\":\"Manualentry\",\r\n \"amount\":\"1.00\",\r\n \"cardNumber\":\"401200009 8765439\",\r\n \"cardExpirationDate\":\"1128\",\r\n \"billingZip\":\"83202\"\r\n\"); Request request = new Request.Builder().url("https://api.edgepay
 - uat.com/payment").post(body).addHeader("merchantKey", "E3DFE3D0150EB516F4E351CE7FE5A2FB799B320BDC5D5 23B
- 4. ").addHeader("externalReferenceID", "1234561528754657").addHeader("transactionDate", "2018-06-11T02:00:00").addHeader("Cache-Control", "no-cache")build();
- 5. Response response = client.newCall(request).execute();

Here is a Python Example

- \",\r\n \"paymentDataInput\":\"Manualentry\",\r\n \"amount\":\"1.00\",\r\n \"cardNumber\":\"4012000098765439\",\r\n \"c ardExpirationDate\":\"1128\",\r\n \"billingZip\":\"83202\"\r\n}"
- 2. headers = {

'merchantKey': "E3DFE3D0150EB516F4E351CE7FE5A2FB799B320BDC5D523B

- 3. "
- 4. 'externalReferenceID': "1234561528754878",
- 5. 'transactionDate': "2018-06-11T02:00:00",
- 6. 'Cache-Control': "no-cache",
- 7. }
- conn.request("POST", "payment", payload, headers) res = conn.getresponse() data = res.read() print(data.decode("utf-8"))

3.3 FULL PAYMENT API TABLE

Here is the full API for the Payment Interface. **ITEMS IN Bold are required**. All others are Conditional or Optional based on your use and need.

Name	Character	Max	Comments
merchantID	N	19	Will be supplied by GET at Boarding
terminalID	N	19	Provided by GET as part of Merchant
			Boarding. Required Field.
cardNumber	N	19	Keyed Card
cardExpirationDate	N	4	MMYY – Provided for Keyed card only
trackData	AN	76	Track 1 or Track 2 unencrypted – Swipe
			or EMV
tokenID	N	16	Generated by GET at Request
paymentDataInput	AN	14	Define the Point of Sale Card Entry Mode. - Phone (Card Not Present) - Mail (Card Not Present) - Internet (Card Not Present) - Swipe - NFC - EMV - EMVContactless
			- Fallbackswipe - Barcode - Manualentry

eCheckRoutingNumber	N	9	Optional – Required for eCheck
eCheckAccountNumber	N	19	Optional – Required for eCheck
eCheckTransactionType	А	3	Optional – Required for echeck. See table
eCheckSerialNumber	AN	15	Conditional – Required for ACH ARC, POP
eCheckAccountType	AN	1	Defines the Receivers account type C – Checking S – Savings G – General Ledger
eCheckReceivingCompa nyName	А	50	Receiving Company Name Required for CCD transactions
		50	
eCheckReceiverName	ANC		Receiver Name or Customer Name is Required for ARC transactions
eCheckPaymentTypeCo de	А	1	
amount	N	12	With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc)
currencyCode	N	3	Optional - Multi-Currency Code. Use ISO
PayFac Fields	Character	Max	Currency Code Numbers for Validation Comments
sID	Sharactel	15	When TYPE is SubMerchant use MID on
			merchant record as sID (SubMerchant MID will be used to locate merchant record in Edgepay to populate Submerchants fields for the TSYS request)
acctSplits		Array	Settlement Split Account and amount that funds will be settled to. "acctSplits":[
			t accounting . I, amount . 1.00

]
On the self in the			
Optional Fields	A N I	20	Conditional Provinced for Province
customerName	AN	30	Conditional – Required for Recurring Payment Customer and eCheck processing
customerNumber	AN	17	Conditional – Customer Order Number, see below for use. Required for Recurring Payment Customer and eCheck CCD
processor	AN	10	Optional - Used for multiple processors
billingAddress	AN	200	Conditional - Needed if card data manually keyed.
billingCity	AN	50	Conditional – Needed if card data manually keyed.
billingState	А	2	Conditional – Needed if card data manually keyed.
billingZip	AN	10	Conditional – Needed if card data manually keyed. Space, "-" allowed
Cvv2	N	4	Optional – If provided will return CVV2 Response
merchantField1	AN	200	Optional - Returned in Response
merchantField2	AN	200	Optional – Returned in Response
posData			Future sig.cap Reference ICO-250 Spec 6144
goodsOrService	AN	10	Optional Description for ACH processing
memberUsername	AN	60	Optional - Recurring Payment Manager Customer
memberPassword	ANS	60	Optional - Recurring Payment Manager Customer
siteUrl	ANS	100	Optional - Recurring Payment Manager Customer
affiliate	ANS	12	Optional - Recurring Payment Manager Customer
cardholderIPAddress	ANS	39	Optional – Enhanced Fraud Management Service IPv6 supported
eMailAddress	ANS	128	Customer's email address
Action Fields	^		Used for specific additional functions
recurring	A	3	"yes" to Set the Recurring Flag for Recurring payment. Conditional to ACH Sec Code TEL
makeRecurring	A	3	""yes" This flag can only be used in conjunction with the "captureToo" flag set to "yes." the initial sale
avsOnly	Α	3	"yes" to Perform AVS Only Transaction
cvvOnly	А	3	"yes" to Perform Security Check Only Transaction
adjust	А	3	"yes" to Adjust the amount on a transaction to increase or decrease settlement. Includes TIP
healthCare	А	3	"yes" to utilize an FSA/HSA Card and qualify
level2	А	3	"yes" to Support charge functions with appended data
level3	А	3	"yes" to Support charge functions with appended data

Token	А	3	"yes" to return a Token Value
captureOnly	Α	3	"yes" will update Auth for Capture with no
, ,			changes. Requires Authcode. SEE NOTE BELOW FOR SPECIAL CONDITIONS.
captureToo	Α	3	"yes" Will Auth, and if successful, will
•			mark the transaction for settlement as
			well. (SALE)
payFac	Α	3	"yes" to Support charge functions with
			appended data
Recurring	Character	Max	
First Payment			For the initial payment on a recurring transaction only the cardOnFile indicator
cardOnFile	Α	1	"y" Indicates if the transaction is a Card On
			File (COF) or Merchant Initiated
			Transaction (MIT) type. Use for 1st
			payment only.
			Dec Section 1 and 1 March 1 March
			Required to be used with Visa only if the
			card being used is being put on file for
			future Merchant Initiated Transactions (i.e. Recurring and Installments)
Subsequent Payments			For all Subsequent payments use the
oubsequent i dyments			Recurring Action Code and associated sub
			fields as needed.
billingType	Α	25	Required - The type of the billing schedule
3 71			opted by a customer for recurring
			payment.
			Allowed values:
			 INSTALLMENT
			 FIXED_AMOUNT_RECURRING
			 SINGLE_INSTALLMENT
			 VARIABLE_AMOUNT_RECURRI
			NG
			ONE_TIME_RETURN
paymentCount	N	4	Conditional – Required for Payments if
			billigType = INSTALLMENT. Otherwise,
			not required. The count of payments in a
			recurring schedule payment, set by a
			customer.
			Note: Send either the endDate or the
			paymentCount in a request.
currentPaymentCount	N	3	Conditional – Required for Payments if
		-	billingType = INSTALLMENT. Otherwise,
			not required. Indicates the current
			recurring payment count
Make Recurring			
description	ANS	96	Required - Text in description field
schedulePaymentType			Required -
			Subscriptions
			Installments
naidh	NI	3	Conditional –
paidIn	N	٥	Number of payments (When Schedule
			Payments Type = Installments)
	<u> </u>	l .	i aymento Type – motalimentoj

startDate			Required
endDate			Optional
totalAmount	N	12	Conditional –
recurringAmount	N	12	Amount field
frequency	AN	2	Required -
,		_	D = Numbers of Days,
			O = Once,
			W = Weekly,
			M=Monthly,
			Q = Quarterly,
			A = Annual,
eMailReceipt	N	1	Default yes
recurringID			The recurring transaction assigned to this
3			Customer returned in response
avsOnly	Α	3	"yes" in the field, amount field must be left
			off request.
Zip	AN	10	Send Customer ZIP Space, "-" Allowed
cvvOnly	А	3	"yes" in the field, amount field must be left
-			off request.
cvv2	N	4	Send keyed Cvv information
adjust	Α	3	"yes" to Adjust the amount prior to
			Settlement. Marks Auth as Captured.
amount	N	12	Send if Amount is different from Auth. With
			decimal or without. All minor units after
			decimal. No decimal provided the amount
			will be processed as major units, (Dollars,
			Euros, etc)
tip	N	12	Send if Tip added after Auth. Send new
			Amount too. With decimal or without. All
			minor units after decimal. No decimal
			provided the amount will be processed as
tox	NI.	40	major units, (Dollars, Euros, etc)
tax	N	12	Send if Sales Tax is added With decimal
			or without. All minor units after decimal.
			No decimal provided the amount will be
			processed as major units, (Dollars, Euros, etc)
healthCare	N	16	For Healthcare Auth, must use an
nounitoare	'\		FSA/HSA card. Visa and MC only. Must
			contain a Visa Merchant Verification
			Value,(Registration process added to
			Merchant record) MCC must be valid for
			Healthcare. Partial Auth must be
			supported. Both CP/CNP supported.
paymentDataInput	AN	14	Define the Point of Sale Card Entry Mode.
. ,			For FSA/HSA only allowable entries are:
			- Phone (Card Not Present)
			- Mail (Card Not Present)
			- Internet (Card Not Present)
			- Manualentry

healthCareAccoutType	AN	3	HSA or FSA required
prescriptionAmt	N	12	With decimal or without. All minor units
precempaters and			after decimal. No decimal provided the
			amount will be processed as major units,
			(Dollars, Euros, etc)
visionAmt	N	12	With decimal or without. All minor units
			after decimal. No decimal provided the
			amount will be processed as major units,
			(Dollars, Euros, etc)
dentalAmt	N	12	With decimal or without. All minor units
			after decimal. No decimal provided the
			amount will be processed as major units,
			(Dollars, Euros, etc)
clinicAmt	N	12	With decimal or without. All minor units
			after decimal. No decimal provided the
			amount will be processed as major units,
			(Dollars, Euros, etc)
posQualified	AN"	6	"yes", "no", or "exempt"Purchase is
			qualified by POS
rxNumber	AN	19	Optional – Customer number
I10 A - 11	^	0	"" I
level2Auth	Α	3	"yes" In addition to "Auth only" supply the
	N	12	following Send if Sales Tax is added. With decimal
tax	IN	12	
			or without. All minor units after decimal.
			No decimal provided the amount will be
			processed as major units, (Dollars, Euros, etc)
purchaseOrder	AN	17	Buyers Order Number
	,		
level2Capture	A	3	"yes" In addition to "Captureonly" supply
	A	3	"yes" In addition to "Captureonly" supply the following.
			"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal
level2Capture	A	3	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal.
level2Capture	A	3	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be
level2Capture	A	3	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros,
level2Capture tax	A N	3 12	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc)
level2Capture	A	3	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros,
level2Capture tax purchaseOrder	A N	3 12 17	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number
level2Capture tax	A N	3 12	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number "yes" In addition to "Authonly" supply the
level2Capture tax purchaseOrder	A N	3 12 17	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number
level2Capture tax purchaseOrder level3Auth	A N AN A	3 12 17 3	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number "yes" In addition to "Authonly" supply the following
level2Capture tax purchaseOrder level3Auth	A N AN A	3 12 17 3	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number "yes" In addition to "Authonly" supply the following Send if Sales Tax is added. With decimal
level2Capture tax purchaseOrder level3Auth	A N AN A	3 12 17 3	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number "yes" In addition to "Authonly" supply the following Send if Sales Tax is added. With decimal or without. All minor units after decimal.
level2Capture tax purchaseOrder level3Auth	A N AN A	3 12 17 3	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number "yes" In addition to "Authonly" supply the following Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be
level2Capture tax purchaseOrder level3Auth tax purchaseOrder	A N AN AN	3 12 17 3 12	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number "yes" In addition to "Authonly" supply the following Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number
level2Capture tax purchaseOrder level3Auth tax purchaseOrder shipZipCode	A N AN AN AN	3 12 17 3 12 17 10	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number "yes" In addition to "Authonly" supply the following Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number The Ship from Zip Space, "-" allowed
level2Capture tax purchaseOrder level3Auth tax purchaseOrder shipZipCode destinationZipCode	A N AN AN AN	3 12 17 3 12 17 10 10	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number "yes" In addition to "Authonly" supply the following Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number The Ship from Zip Space, "-" allowed The Ship to Zip Code Space, "-" allowed
level2Capture tax purchaseOrder level3Auth tax purchaseOrder shipZipCode destinationZipCode customerNumber	AN AN AN AN	3 12 17 3 12 17 10 10 10	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number "yes" In addition to "Authonly" supply the following Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number The Ship from Zip Space, "-" allowed
level2Capture tax purchaseOrder level3Auth tax purchaseOrder shipZipCode destinationZipCode customerNumber itemCode	A N AN AN AN AN	3 12 17 3 12 17 10 10 10 17 20	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number "yes" In addition to "Authonly" supply the following Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number The Ship from Zip Space, "-" allowed The Ship to Zip Code Space, "-" allowed
level2Capture tax purchaseOrder level3Auth tax purchaseOrder shipZipCode destinationZipCode customerNumber itemCode itemCommunityCode	A N AN AN AN AN AN	3 12 17 3 12 17 10 10 17 20 12	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number "yes" In addition to "Authonly" supply the following Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number The Ship from Zip Space, "-" allowed The Ship to Zip Code Space, "-" allowed
level2Capture tax purchaseOrder level3Auth tax purchaseOrder shipZipCode destinationZipCode customerNumber itemCode	A N AN AN AN AN	3 12 17 3 12 17 10 10 10 17 20	"yes" In addition to "Captureonly" supply the following. Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number "yes" In addition to "Authonly" supply the following Send if Sales Tax is added. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc) Buyers order Number The Ship from Zip Space, "-" allowed The Ship to Zip Code Space, "-" allowed

itemUnitOfMeasure	AN	20	Call Global Electronic Transactions for table		
itemExtendedAmount	N	21	With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc)		
freightAmount	N	12	With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units (Dollars, Euros, etc)		
dutyAmount	N	12	With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc)		
PurchaseOrder	AN	17	Buyers order Number		
ChargeDescriptor	AN	40	Amex Additional Descriptor		
CustomerVATNumber	AN	13	Government Tax ID		
CustomerReferenceID	AN	17	Buyer Reference Number		
SummaryCommodityCo de	AN	4	Call Global Electronic Transactions for table		
VatInvoice	AN	15	VAT Invoice Number		
taxCategory	AN	10	The type of tax. SERVICE DUTY VAT ALTERNATE NATIONAL TAX_EXEMPT		
taxAmount	N	12	With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc)		
taxRate	N	12	With decimal or without.		
externalReferenceID	N	19	reference id for transaction, part of header, generated at merchant end		
transDiscountName	AN		The name of the discount applied to the transaction. This field is used for reporting.		
transDiscountAmount	N	12	The dollar amount of discount applied to a transaction. Corresponds with transDiscountAmount. This field is used for reporting. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc)		
destinationCountryCode	AN	3	The destination country code indicator.		
itemDiscountName	ANC A	50	The name of the discount applied to a product. This does not impact transaction functionality. It is used for reporting purposes.		
itemDiscountAmount	N	12	The dollar amount of discount applied to a product. Corresponds with productDiscountName. This does not impact transaction functionality. It is used for reporting purposes. With decimal or		

			without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc)
itemDiscountPercentage	N	3	The discount percentage applied to a product. Corresponds with productDiscountName. This does not impact transaction functionality. It is used for reporting purpose
itemDiscountType	AN	20	This field defines the transaction types that the discount can be applied to. Corresponds with productDiscountName. This does not impact transaction functionality. It is used for reporting purposes.
transactionID	AN	17	"CS" for card "AS" for ACH for Generated by EdgePay, used for capture, adjust and refund
level3Capture	А	3	"yes" In additions 'Captureonly" supply the following:
shipZipCode	AN	10	The Ship from Zip Space, "-" allowed
destinationZipCode	AN	10	The Ship to Zip Code Space, "-" allowed
customerNumber	AN	25	Customer ID Number
itemCode	AN	20	
itemCommunityCode	AN	12	
ItemDescription	AN	50	
itemQuantity	N	12	
itemUnitOfMeasure	AN	20	Call Global Electronic Transactions for
nemonitolivieasure	AIN	20	table
itemExtendedAmount	N	21	With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc)
freightAmount	N	12	With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc)
dutyAmount	N	12	With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc)
PurchaseOrder	AN	17	Buyers order Number
ChargeDescriptor	AN	40	Amex Additional Descriptor
CustomerVATNumber	AN	13	Government Tax ID
CustomerReferenceID	AN	17	Buyer Reference Number
SummaryCommodityCo de	AN	4	Call Global Electronic Transactions for table
VatInvoice	AN	15	VAT Invoice Number
taxCategory	AN	10	The type of tax. SERVICE DUTY VAT ALTERNATE NATIONAL

			TAX_EXEMPT
taxAmount	N	12	With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc)
taxRate	N/12	12	With decimal or without.
externalReferenceID	N	19	reference id for transaction, part of header, generated at merchant end
transDiscountName	AN	30	The name of the discount applied to the transaction. This field is used for reporting.
transDiscountAmount	N	12	The dollar amount of discount applied to a transaction. Corresponds with transDiscountAmount. This field is used for reporting. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc)
destinationCountryCode	AN	3	The destination country code indicator.
itemDiscountName	AN	50	The name of the discount applied to a product. This does not impact transaction functionality. It is used for reporting purposes.
itemDiscountAmount	N	12	The dollar amount of discount applied to a product. Corresponds with productDiscountName. This does not impact transaction functionality. It is used for reporting purposes. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc)
itemDiscountPercentage	N	100	The discount percentage applied to a product. Corresponds with productDiscountName. This does not impact transaction functionality. It is used for reporting purpose
itemDiscountType	AN	20	This field defines the transaction types that the discount can be applied to. Corresponds with productDiscountName. This does not impact transaction functionality. It is used for reporting purposes.
transactionID	AN	17	"CS" for card "AS" for ACH for Generated by EdgePay, used for capture, adjust and refund
Token	А	3	"yes" Returns a Token Value for local storage. No additional Sub Fields required.

captureOnly	A	3	"yes" Conditional – Will update a previous Authorization for Capture. Required fields are: - Capture Only Flag - Merchant ID - Terminal ID - Transaction ID - Amount, - Optional - (If different from Auth) - Currency Code - Optional - Tip, (If Different from Auth)	
merchantID	N	19	Will be supplied by GET at Boarding	
terminalID	N	19	Provided by GET as part of Merchant Boarding. Required Field.	
transactionID	AN	17	"CS" for card "AS" for ACH for Generated by EdgePay, used for capture, adjust and refund	
amount	N	12	Optional – Input if Amount is different that the Authorization Amount. With decimal of without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros etc)	
currencyCode	N	3	Optional - Multi-Currency Code. Use ISO Currency Code Numbers for Validation	
tip	N	12	Send if Tip added after Auth. Send new amount also. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc)	
captureToo	A	3	"yes" will Auth, and if successful, will mark the transaction for settlement as well. (SALE). No additional Sub Fields required.	

3.3.1 Refund

URL: https://api.edgepay-uat.com/refund

A refund is used to credit back a previously authorized or captured transaction. This object will check the status of the original item using the transactionID if the transactionID is present. Refund can also be sent without a transactionID using the Card information. This must be allowed by GET and configured during the Merchant setup process. Because the refund is not tied to any transaction in this event, a credit will be generated to the card holder's card a no checking is done on previous transactions.

- If transaction is captured, but not settled a void will be sent
- If an amount less than the original amount is sent, then an adjust is made to the original transaction.
- If the transaction was authorized but not captured a reversal will be send
- If the transaction is already settled a return, (Credit) is processed.

*Bold is Required

NAME	ENUMERATION	COMMENTS
merchantKey	As defined	As defined - Header
merchantID	N/19	Will be supplied by GET at Boarding
terminalID	N/19	From original transaction
transactionID	AN/19	Conditional – Either the transactionID or the Card data is required. Unique number assigned to each transaction by EdgePay
cardNumber	N/19	Conditional – Either Card data or transactionID must be present. Keyed Card
cardExpirationDate	N/4	Conditional - MMYY – Provided for Keyed card only
trackData	AN/76	Conditional - Track 1 or Track 2 unencrypted – Swipe or EMV
tokenID	N/16	Card or Checking Account token
amount	N/12	Conditional – If the Amount to Refund is different than amount in transactionID or if the Card data is supplied in lieu of the transactionID, then amount is required. With decimal or without. All minor units after decimal. No decimal provided the amount will be processed as major units, (Dollars, Euros, etc)

3.3.2 Token Request

URL: https://api.edgepay-uat.com/token

Tokens are unique reference numbers generated upon request and are sent back in the response in place of the credit card account number or checking route/account combinations. Tokens can be used in subsequent transactions in lieu of the credit card number or checking account. You can generate tokens during the payment transaction or individually using this API if a payment is not required.

*Bold is Required

Name	Character	Max	Comments
merchantID	N	19	Will be supplied by GET at
			Boarding
terminalID	N	19	Required field. Provided by GET.
cardnumber	N	19	Keyed Card
cardExpirationDate	N	4	MMYY – Provided for Keyed card
_			only
trackData	AN	76	Track 1 or Track 2 unencrypted –
			Swipe or EMV
eCheckRoute	N	9	Optional – Required for eCheck
eCheckAccount	N	17	Optional – Required for eCheck

3.3.3 Recurring Payments

URL: https://api.edgepay-uat.com/recurring/customer/add

Recurring transactions allow consumers to authorize merchants to charge their credit card or bank account a specific amount on a regular basis such as weekly, monthly or quarterly for a series of goods or regular services. This transaction supports both add and change functionality.

Please note that the contract number must be setup by the merchant in the EdgePay Portal prior to adding a new card.

Exa	m	pl	е	:

*Bold is required

Name	Character	Max	Comments
merchantID	N	19	Will be supplied by GET at Boarding
terminalID	N	19	Required. Provided by GET

actionCode	Α	1	A = Add, C = Change. If Change, only supply
dononocac	, ,	'	those elements below that need to be
			updated.
cardNumber	N	19	Keyed Card
cardExpirationDate	N	4	MMYY – Provided for Keyed card only
trackdata	AN	76	Track 1 or Track 2 unencrypted – Swipe or
			EMV
tokenID	N	16	Provide in lieu of Card or eCheck data.
			Generated from a previous transaction.
eCheckRoute	N	9	Optional – Required for eCheck
eCheckAccount	N	17	Optional – Required for eCheck
eCheckTransType	Α	3	Optional – Required for echeck. See table
eCheckAccountType	AN	1	Defines the Receivers account type
			C – Checking
			S – Savings
			G – General Ledger
token	Α	3	"yes" to return a Token Value
customerName	AN	30	
customerNumber	ANC	25	The Customer Number you assign
billingAddress	AN	200	, , ,
billingCity	AN	50	
billingState	Α	2	
billingZip	AN	10	Space, "-" allowed
shippingAddress	AN	200	
shippingCity	AN	50	
shippingState	A	2	
shippingZip	AN	10	Space, "-" allowed
phoneNumber	N	15	Customer's Phone Number
eMailAddress	A	128	Customer's email address
paymentDataInput	AN	14	Define the Point of Sale Card Entry Mode.
paymentbatamput	AIV	'-	- Phone (Card Not Present)
			- Mail (Card Not Present)
			- Internet (Card Not Present)
			- Swipe
			- NFC
			- EMV
			- EMVContactless
			- Fallbackswipe
			- Barcode
			- Manualentry
customerCurrency	N	3	Default to USD, (840) - See Table
chargebackShutOff	A	1	Y/N If Chargeback received, set Contract
			Status to Suspend
eMailReceipts	Α	1	Y/N Send Receipt of payment result
eMailSchdulePayment	A	1	Y/N Send Notice of scheduled payment
eMailContractEnd	A	1	Y/N Send Notice of End of Contract
eMailContractCancel	A	1	Y/N Send Notice of Cancelled Contract
taxable	A	1	Y/N Customer is Taxable
taxRate	N	3	To Calculate Taxable Amount for Payment
contractNumber	N	20	Unique Number - Assigned to a Customer by
Somulation	' '	20	EdgePay. Only send for change requests.
contractDescription	Α	30	Name assigned to Contract
status	A	1	A to Activate, S to Suspend this contract
วเนเนอ	11	1 '	A to Activate, o to ouspend this contract

billingPlan	N	30	Billing plan pre-setup in the Processing Center prior to adding or changing a customer/contract
startDate	N	25	Required
endDate	N	25	Optional – If no end date, system will continue to bill based on the schedule

3.3.4 ACH

URL: https://api.edgepay-uat.com/payment

ACH payments are electronic payments that are created when the customer gives a merchant authorization to debit directly from the customer's checking or saving account for the purpose of payment.

*Bold is required

Name	C h a r a c t e r	Max	Comments
merchantID	N	19	Will be supplied by GET at Boarding
terminalID	N	19	Provided by GET as part of Merchant Boarding. Required Field.
tokenID	Ν	16	Generated by GET at Request
eCheckRoutingNumber	Ν	9	Bank Routing number
eCheckAccountNumber	Ν	19	Account number issued to customer
eCheckTransactionType	Α	3	See Code Table
eCheckSerialNumber	A N	15	Conditional – Required for ACH ARC, BOC, POP
eCheckAccountType	A N	1	Defines the Receivers account type C – Checking S – Savings G – General Ledger
eCheckReceivingCompa nyName	Α	50	Receiving Company Name Required for CCD transactions
eCheckReceiverName	A N	50	Receiver Name or Customer Name is Required for ARC transactions
eCheckPaymentTypeCo de	Α	1	Defines the Payment Type Code S – Single R – Recurring

paymentDataInput	Α	14	Define the Point of Sale Card Entry Mode.
	Ν		- Phone (Card Not Present)
			- Mail (Card Not Present)
			- Internet (Card Not Present)
			- Swipe
			- NFC
			- EMV
			- EMVContactless
			- Fallbackswipe
			- Barcode
			- Manualentry
amount	Ν	12	Total charge amount. With decimal or without. All minor
			units after decimal. No decimal provided the amount will
			be processed as major units, (Dollars, Euros, etc)
currencyCode	N	3	Optional - Multi-Currency Code. Use ISO Currency Code
			Numbers for Validation
customerName	Α	30	Conditional – Required for eCheck
	Ν		·
customerNumber	Α	17	Conditional – Customer Order Number, see below for
	Ν		use. Required for eCheck CCD
goodsOrService	Α	10	Optional Description for ACH processing
	Ν		

3.4 TRANSACTION RESPONSES

The transaction responses generated by EdgePay contains non-sensitive data that can be used to validate the transaction and confirm your next step in your software work flow, build receipts or build records for internal reporting and storing for subsequent use.

Prepaid cards can receive partial approvals for less than the originally authorized amount. The amount that was authorized will appear in the amount field.

3.4.1.1 EdgePay AP Response Messages

The EdgePay API Response Header contains general HTTP standards that your server will expect for processing. The body contains the information relevant to your processing needs.

The responses contain non-sensitive data that you will use to validate the status of your request and to execute your next steps in your software flow logic. This may be updating the customer with the results, printing a receipt, asking the customer to fix something, saving critical data, updating your CRM order status, General Ledger, Accounts Receivable, etc. Here is an example of our HTTP header and JSON response Object.

```
Header:
```

```
Connection →keep-alive
Content-Encoding →gzip
Content-Type →application/json;charset=UTF-8
Date →Mon, 11 Jun 2018 18:43:10 GMT
Transfer-Encoding →chunked
Vary →Accept-Encoding
```

JSON Body:

```
{
  "result": "A",
  "responseCode": "A0000",
  "responseMessage": "Success",
  "merchantID": "6320340123456900",
  "terminalID": "88800000282601",
  "sID": "222212345678",
  "timestamp": "2018-06-11-18-43-10",
  "authCode": "TAS632",
  "processor": "TSYS",
  "amount": "1.00",
  "maskedAccount": "401200*****5439",
  "cardExpirationDate": "1128",
  "transactionID": "CS93436593469381642",
  "avsResponse": "Neither the street address or ZIP code match what is
on file.",
}
```

We have implemented a feature called 'Result.' This value will assist you in the appropriate UI Work flow. See section 4 'Response Codes' for more details on your "Next Steps."

More samples of the API can be found in the Appendix.

3.4.2 Payment Response

Name	Character	Max	Comments
result	А	1	A = Approved. D=Decline. R=Retry. C=Call for help
securityResult	А	1	"A" - Approved, "D" - Declined or 'R' – Review. When a transaction is under review the merchant is required to go to EdgePay' s portal to review the transaction for approval or decline.

authCode	AN	6	Conditional – Returned if provided or assigned.
processor	AN	10	Provides Processor used
responseCode	AN	5	See table below
responseMessage	AN	225	See Table below
merchantID	N	19	Echo back
terminalID	N	19	Echo back
sID	N	12	Echo back
amount	N	12	Response to Request amount. If less than requested amount then utilize Partial approval process.
currencyCode	N	3	Echo back from Request
maskedAccount	N	19	Card or Checking Account masked as 1st 6 and last 4 for card and last 4 for check
cardExpiration Date	N	4	MMYY – Provided for Keyed card only
tokenID	N	16	Conditional - Card or Checking Account token number provided if requested
customerNumber	AN	17	Conditional -Customer ID Number ECHO back if provided
transactionID	AN	19	Unique number assigned to each transaction by processor.
avsResponse	А	225	Conditional – Provided for avsOnly Action Code or if Card Not Present and Billing Zip provided. See Table Below
cvvResponse	Α	225	Conditional – Provided if cvvOnly Action Code used or if cvv2 field used. Match or Mismatch
commercialCard	Α	1	'y' indicates card is a Commercial Card. "n" indicates not a Commercial Card
emvArpc			Future Use
timestamp	N	19	Yyyy-mm-dd-hh-mm-ss
merchantField1	AN	200	Optional - Returned in Response
merchantField2	AN	200	Optional – Returned in Response

3.4.3 Refund Response

Name	Character	Max	Comments
result	Α	1	A = Approved. D=Decline. R=Retry. C=Call for
			help
processor	AN	10	Optional - Used for multiple processors
responseCode	AN	5	See table
responseMessage	AN	225	See Table
merchantID	N	19	Echo back
terminalID	N	19	Echo back
origTransactionID	AN	19	Unique number assigned to each transaction by
			processor.
transactionID	AN	19	Unique number assigned to each transaction by
			processor. Assigned for Refund and linked to the
			Original Payment
timestamp	N	19	Yyyy-mm-dd-hh-mm-ss

3.4.4 Token Response

Name	Character	Max	Comments
result	А	1	A = Approved. D=Decline. R=Retry. C=Call for help
responseCode	AN	5	See table
responseMessage	AN	225	See Table
merchantID	N	19	Echo back
tokenID	N	16	Card or Checking Account token
cardExpirationDate	N	4	Conditional – Echo Back if Present - MMYY – Provided for Keyed card only

3.4.5 Recurring Response

NAME	ENUMERATION	COMMENTS
result	A/1	A = Approved. D=Decline. R=Retry.
		C=Call for help
merchantID	N/19	Echo back
terminalID	N/19	Echo back
currencyCode	N/3	Echo back from Request
maskedAccountNumber	N/19	Card or Checking Account masked as 1st
		6 and last 4 for card and last 4 for check
cardExpirationDate	N/4	MMYY – Provided for Keyed card only
tokenID	N/16	Returned if requested
customerNumber	ANC/25	Echo Back - Customer ID Number
contractNumber	N/20	Unique Number - Assigned to a
		Customer's contract by EdgePay
timestamp	N/Calendar	Yyyy-mm-dd-hh-mm-ss

4 RESPONSE CODES – WORKING WITH THE RESPONSE

Within each API Responses there are 4 fundamental elements you can use to drive your software flow. They are:

- Result A Classification that groups all Response Codes into 4 basic types and allows for you to drive software flow logic. This is the most relevant and best to use.
- Response Code A unique code for each type of response
- Response Message A unique message, by Response Code, that can be displayed to the Customer or printed on a Receipt. Very helpful in Decline Messages.
- HTTP Status Code The RESTful code that aligns with the HTTP Status
- When processing a Response message 90% percent of the time you will receive the 'A0000' Success Response Code indicating the transaction request was approved. This would indicate to you to move to the Approved Work Flow and notify the Merchant and Customer as such. Within the 'A0000' Response Code. The accompanying Result Code is 'A'
- There are many reasons for Declined transactions. These are denoted with a Result Code of 'D' and indicate a Work Flow to support possible Decline. For these cases you will typically present the Decline Message back to the Card Holder with an opportunity to either fix the error or select another form of payment.
- When we return a Result Code of 'C', this indicates a setup problem between you and us and we recommend you Decline the transaction from a Work Flow situation and have someone call us, so we can debug the issue and get you going again!
- Occasionally you may receive a Result Code of 'R'. This is an indication of a System error on our side such as a "Timeout" or other condition that may have prohibited us from processing your Request. Under these circumstances we recommend you Retry sending the transaction with the same externalRefernceID. If it was processed successfully we will respond with a 'Duplicate Transaction' which is an indication the previously transaction was processed successfully, and the issue was between you and us and the upstream systems, (i.e. Visa, MC, Amex, Discovery) did successfully process the transaction. If the transaction is Approved, no further action is necessary on your side. If the transaction returns 'Retry' again consider moving to a Decline Work Flow and Call us for help.
- Finally, if you receive a Response Code not within the table, please use your Decline Transaction flow logic. This is the most conservative pattern and will serve you best.

RESPONSE CODE TABLE:

Respons	Resul	Response Message	HTTP Status Code	
e Code	t	Response Message 11117 Status Code		
	Code			
A0000	Α	Success	OK	
A0002	Α	Partial Amount Approved	OK	
A0014	Α	Void successful	OK	
D0001	Α	Duplicate Request (Approved previously)	OK	
EP0081	Α	Successful	OK	
EP0340	А	Presentment event successfully created with Transaction id %s	OK	
EP0409	Α	Notice request processed successfully	OK	
EP0444	Α	Billing Plan saved successfully	OK	
EP0445	Α	Success	OK	
EP0450	Α	Success	OK	
E0202	С	System Error (CardTran)	BAD_REQUEST	
E0302	С	System Error (CardUTran)	BAD_REQUEST	
E0911	С	System Error	BAD_REQUEST	
E0912	С	Error on Host	BAD_REQUEST	
D0050	С	Inactive terminal (Backend)	BAD_REQUEST	
D0060	С	Inactive account (Backend)	BAD_REQUEST	
D0070	С	Unique ID Error (Backend)	BAD_REQUEST	
D0092	С	Request Format Error (Backend)	BAD_REQUEST	
D9012	С	Invalid	BAD REQUEST	
		Merchant_Info/Agent_Chain_Number must be 6 bytes	_	
D9015	С	Head Quarter merchant not found. Head Quarter merchant not found.	BAD_REQUEST	
E0010	С	Inactive Device (Terminal)	BAD_REQUEST	
E0020	С	Inactive Merchant (Account)	BAD_REQUEST	
E0021	С	Merchant (Account) configuration missing	BAD_REQUEST	
E7015	С	Invalid Transaction Key	BAD_REQUEST	
E9294	С	terminalData {terminalCapability, terminalOperatingEnvironment, cardholderAuthenticationMethod, terminalAuthenticationCapability, terminalOutputCapability,maxPinLength} group is required	BAD_REQUEST	
EP0011	С	Inactive/Invalid Terminal	BAD_REQUEST	
EP0012	С	Authentication failed, please use valid credentials.	BAD_REQUEST	
EP0051	С	Invalid Merchant Id	BAD_REQUEST	
EP0302	С	System Error. Please contact System Admin.	BAD_REQUEST	
EP0305	С	System Error. Please contact System Admin.	BAD_REQUEST	
EP0306	С	System Error. Please contact System Admin.	BAD_REQUEST	
EP0321	С	System Error. Please contact System Admin.	BAD_REQUEST	
EP0322	С	System Error. Please contact System Admin.	BAD_REQUEST	

EP0323	С	System Error. Please contact System	BAD_REQUEST	
ED0004		Admin.	DAD DECLIEGE	
EP0324	С	System Error. Please contact System Admin.	BAD_REQUEST	
EP0325	С	System Error. Please contact System Admin. BAD_REQUEST		
EP0402	С	System error. Please contact administrator	BAD_REQUEST	
EP0403	С	System Error. Please contact	BAD REQUEST	
		administrator		
EP0407	С	System error. Please contact administrator	BAD_REQUEST	
EP0415	С	System error. Please contact	BAD_REQUEST	
		administrator		
EP0431	С	System Error. Please contact administrator	BAD_REQUEST	
EP0432	С	System Error. Please contact	BAD_REQUEST	
		administrator		
EP0443	С	System error. Please contact administrator	BAD_REQUEST	
EP0501	С	Invalid Merchant Access Key	BAD_REQUEST	
EP0528	С	Invalid Merchant ID	BAD_REQUEST	
EP0900	С	Message format not supported	BAD REQUEST	
F9901	С	Format Error field details	BAD_REQUEST	
F9908	С	Sum of elements of group	BAD_REQUEST	
		additionalCharges should not be greater than transaction Amount.	_ `	
F9911	С	Last chip Read is not Allowed with	BAD_REQUEST	
		Fallback Swipe (Empty Candidate List)		
		transaction	242 2504505	
F9915	С	Void Reason is Mandatory for Chip Card transaction	BAD_REQUEST	
F9917	С	Invalid emvTags, {9F1F or 9F20 or 57 or 5A}	BAD_REQUEST	
F9924	С	Only 3 healthCare amounts are allowed	BAD_REQUEST	
E4012	D	Duplicate transaction (Same amount/ Account).	BAD_REQUEST	
EP0101	D	The value of element '%s' is missing.	BAD_REQUEST	
EP0102	D	The value '%s' of element '%s' is not valid.	BAD REQUEST	
D0003	D	Duplicate Request (Declined previously)	BAD_REQUEST	
D0004	D	Reversal Not Allowed	BAD_REQUEST	
D0005	D	Return Not Allowed	BAD_REQUEST	
D0007	D	Modify Transaction Not Allowed BAD_REQUEST		
D0008	D	Possible Duplicate Request BAD_REQUEST		
D0009	D	Duplicate Request (Reversed previously)	BAD_REQUEST	
D0080	D	Duplicate Request (Backend)	BAD_REQUEST	
D0090	D	Reversal Not Allowed (Backend)	BAD_REQUEST	
D0091	D	Return Not Allowed (Backend)	BAD_REQUEST	
D0094	D	Return not allowed, Card number	BAD_REQUEST	
		requested does not match with original transaction card number		
D0096	D	Currency code mismatch with original	BAD_REQUEST	
		transaction	_	

D0097	D	Multiple amount format in single request not supported	BAD_REQUEST	
D0098	D	Multiple tax with same tax type is not allowed.	BAD_REQUEST	
D007	D	One or more Fields missing or incorrect.	BAD_REQUEST	
D201	D	Unable to determine merchant ID	BAD REQUEST	
D202	D	Unable to process your request.	BAD_REQUEST	
D215	D	Invalid amount	BAD_REQUEST	
D001	D	Refer to Issuer	BAD_REQUEST	
D002	D	Suspected Card (pick-up, hot-card)	BAD_REQUEST	
D003	D	Honor with identification?	BAD_REQUEST	
D004	D	Invalid Amount	BAD_REQUEST	
D005	D	Invalid Card	BAD_REQUEST	
D006	D	No such issuer	BAD_REQUEST	
D007	D	Invalid fee	BAD_REQUEST	
D008	D	Incorrect Pin	BAD_REQUEST	
D009	D	Pin attempts exceeded	BAD_REQUEST	
D010	D	Key synchronization failed from the host	BAD_REQUEST	
D011	D	Expired Card	BAD_REQUEST	
D012	D	Insufficient Funds	BAD_REQUEST	
D013	D	Invalid From Account	BAD_REQUEST	
D014	D	Invalid To Account	BAD REQUEST	
D015	D	Withdrawal Limit exceeded	BAD REQUEST	
D016	D	Withdrawal frequency exceeded	BAD REQUEST	
D017	D	Time limit for Pre-Auth reached	BAD REQUEST	
D018	D	AVS FAILED BAD REQUEST		
D019	D	Billing ZIP Mismatch	BAD REQUEST	
D020	D	CVV2 verification failed	BAD_REQUEST	
D021	D	Issuer or Switch inoperative	BAD REQUEST	
D022	D	Duplicate transaction (Same amount / Account)	BAD_REQUEST	
D023	D	Balance unavailable for inquiry	BAD_REQUEST	
D024	D	Check Digit Err.	BAD_REQUEST	
D025	D	Excluded Bin ID for Merchant	BAD_REQUEST	
D026	D	Do not honor	BAD_REQUEST	
D027	D	AVS and CVV2 failed	BAD_REQUEST	
D028	D	Invalid Date	BAD_REQUEST	
D029	D	Invalid Service	BAD_REQUEST	
D030	D	Host Validation Error	BAD_REQUEST	
D031	D	Activity Limit exceeded	BAD_REQUEST	
D032	D	Cannot complete because of Violation	BAD_REQUEST	
D033	D	Debit Pin Required	BAD_REQUEST	
D034	D	Debit Pin Required	BAD_REQUEST	
D041	D	Card information is not provided	BAD_REQUEST	
D216	D	ReceiverLimitExceeded BAD_REQUEST		
D800	D	Invalid FCS ID	BAD_REQUEST	
D801	D	Invalid Voucher Serial Number BAD_REQUEST		
D802	D	Invalid Voucher Approval Code BAD_REQUEST		
D803	D	Electronics Benefit Transactions cannot BAD_REQUEST		
	<u> </u>	contain Fee or Tax		
D998	D	PreFraudScout Decline	BAD_REQUEST	
D999	D	General Card Auth Decline	BAD_REQUEST	
D1001	D	Account Number Invalid	BAD_REQUEST	
D1002	D	Valid Account, Cash payments only. BAD_REQUEST		

D1201 D Unable to determine merchant ID BAD_REQUEST D1202 D Unable to process your request. BAD_REQUEST D1214 D Invalid store ID BAD_REQUEST D1215 D Invalid amount BAD_REQUEST D2001 D Refer to Issuer BAD_REQUEST D2002 D Suspected Card (pick-up, hot-card) BAD_REQUEST D2003 D Honor with identification? BAD_REQUEST D2004 D Invalid Amount BAD_REQUEST D2005 D Invalid Card BAD_REQUEST D2006 D No such issuer BAD_REQUEST D2007 D Invalid fee BAD_REQUEST D2008 D Incorrect Pin BAD_REQUEST D2009 D Pin attempts exceeded BAD_REQUEST D2010 D Key synchronization failed from the host BAD_REQUEST D2011 D Expired Card BAD_REQUEST D2011 D Expired Card BAD_REQUEST	D4000		A manual invalid	DAD DECLIECT
D1202 D Unable to process your request. BAD_REQUEST D1214 D Invalid store ID BAD_REQUEST D1215 D Invalid store ID BAD_REQUEST D2001 D Refer to Issuer BAD_REQUEST D2002 D Suspected Card (pick-up, hot-card) BAD_REQUEST D2003 D Honor with identification? BAD_REQUEST D2004 D Invalid Amount BAD_REQUEST D2005 D Invalid Card BAD_REQUEST D2006 D No such issuer BAD_REQUEST D2007 D Invalid fee BAD_REQUEST D2008 D Incorrect Pin BAD_REQUEST D2009 D Pin attempts exceeded BAD_REQUEST D2010 D Key synchronization failed from the host BAD_REQUEST D2011 D Expired Card BAD_REQUEST D2012 D Insulid From Account BAD_REQUEST D2013 D Invalid To Account BAD_REQUEST	D1003	D	Amount invalid.	BAD_REQUEST
D1214 D Invalid store ID BAD_REQUEST D1215 D Invalid amount BAD_REQUEST D2001 D Refer to Issuer BAD_REQUEST D2002 D Suspected Card (pick-up, hot-card) BAD_REQUEST D2003 D Honor with identification? BAD_REQUEST D2004 D Invalid Amount BAD_REQUEST D2005 D Invalid Card BAD_REQUEST D2006 D No such issuer BAD_REQUEST D2007 D Invalid fee BAD_REQUEST D2008 D Incorrect Pin BAD_REQUEST D2009 D Pin attempts exceeded BAD_REQUEST D2010 D Key synchronization failed from the host BAD_REQUEST D2011 D Expired Card BAD_REQUEST D2011				_
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D2002 D Suspected Card (pick-up, hot-card) BAD_REQUEST D2003 D Honor with identification? BAD_REQUEST D2004 D Invalid Amount BAD_REQUEST D2005 D Invalid Card BAD_REQUEST D2006 D No such issuer BAD_REQUEST D2007 D Invalid fee BAD_REQUEST D2008 D Incorrect Pin BAD_REQUEST D2009 D Pin attempts exceeded BAD_REQUEST D2010 D Key synchronization failed from the host BAD_REQUEST D2011 D Expired Card BAD_REQUEST D2011 D Expired Card BAD_REQUEST D2012 D Insufficient Funds BAD_REQUEST D2013 D Invalid From Account BAD_REQUEST D2014 D Invalid To Account BAD_REQUEST D2015 D Withdrawal Irint exceeded BAD_REQUEST D2016 D Withdrawal frequency exceeded BAD_REQUEST <td></td> <td></td> <td></td> <td></td>				
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D2039 D Could Not Retrieve a Valid Card Number BAD_REQUEST				
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D2041 D Card information is not provided BAD_REQUEST	D2041	D		
E2042 D No Card found for the BIN No Card found BAD REQUEST				
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D2200 D UNKNOWN_ERROR BAD_REQUEST	D2200	D		
D2201 D CONTENT_TYPE_NOT_SET BAD_REQUEST				
D2202 D UNKNOWN_CONTENT_TYPE BAD_REQUEST				_
D2203 D CONTENT_LENGTH_NOT_SET BAD_REQUEST				
D2204 D INCOMING_REQUEST_READ_ERROR BAD_REQUEST				
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EP0072 D Token is already suspended BAD_REQUEST					
EP0073 D Token not associated with the merchant BAD REQUEST					
	EP0073	D	Token not associated with the merchant	BAD_REQUEST	
EP0074 D Invalid Usage type, value can be BAD_REQUEST	EP0074	D		BAD_REQUEST	
SINGLE/MULTIPLE			SINGLE/MULTIPLE		

EP0075	D	Invalid Purpose type, value can be INTERNAL/EXTERNAL BAD_REQUEST		
EP0076	D	Invalid Token Type	BAD_REQUEST	
EP0077	D	Token Suspended Permanently, alternative token exists	BAD_REQUEST	
EP0078	D	No Token Exists for this MID BAD_REQUEST		
EP0079	D	Token Suspended Permanently	BAD REQUEST	
EP0080	D	Routing Number cannot be blank	BAD_REQUEST	
EP0101	D	The value of element '%s' is missing.	BAD_REQUEST	
EP0102	D	Not supported card type	BAD_REQUEST	
EP0102	D	The value '%s' of element '%s' is not valid.	BAD REQUEST	
EP0103	D	The field '%s' is invalid.	BAD_REQUEST	
EP0103	D	The field '%s' is invalid.	BAD_REQUEST	
EP0104	D	The value of element '%s' is not valid.	BAD_REQUEST	
EP0105	D	Merchant is not allowed for processing '%s' card transactions, please contact system administrator.	BAD_REQUEST	
EP0106	D	Level2/Level3 and HealthCare cannot be processed for a single payment request	BAD_REQUEST	
EP0106	D	Level2/Level3 and HealthCare cannot be processed for a single payment request	BAD_REQUEST	
EP0107	D	Level2/Level3 Auth request should have Level2/Level3 Auth elements	BAD_REQUEST	
EP0108	D	Level2/Level3 Auth request should not have Level2/Level3 Capture elements	BAD_REQUEST	
EP0109	D	HealthCare transactions are only supported by VISA,MasterCard and Discover	BAD_REQUEST	
EP0110	D	Invalid input fields in request	BAD_REQUEST	
EP0111	D	Summation of all the sub element amount should be equivalent to total amount	BAD_REQUEST	
EP0112	D	Duplicate Transaction	BAD_REQUEST	
EP0115	D	The value of element 'amount' is not required.	BAD_REQUEST	
EP0116	D	Refund transaction not possible for this transaction.	BAD_REQUEST	
EP0117	D	The value of element 'cardDataSource' is not required	BAD_REQUEST	
EP0118	D	Invalid Transaction Logging Request	BAD_REQUEST	
EP0119	D	Requested operation cannot be performed on this transaction.	BAD_REQUEST	
EP0120	D	Level2/Level3 Capture request should not have Level2 or Level3 Auth element	BAD_REQUEST	
EP0121	D	Level2/Level3 Capture request should have Level2 or Level3 Capture element	BAD_REQUEST	
EP0122	D	Requested operation cannot be performed on this transaction.	BAD_REQUEST	
EP0123	D	Partial Refund not allowed for Authorized transactions	BAD_REQUEST	
EP0124	D	Token generation is not allowed for requested operation.	BAD_REQUEST	
EP0301	D	ACH Transaction already Voided	BAD_REQUEST	
EP0302	D	Invalid Routing Number	BAD_REQUEST	
EP0303	D	Invalid %s with value %s	BAD_REQUEST	

EP0304	D	Missing %s	BAD_REQUEST	
EP0310	D	Invalid Token	BAD REQUEST	
EP0316	D	Either Customer Name or Receiver Name	BAD_REQUEST	
21 0010		is required	BND_REQUEST	
EP0317	D	Ach Transaction already Refunded	BAD_REQUEST	
EP0320	D	Duplicate Transaction	BAD_REQUEST	
EP0330	D	ARC transaction is not supported for amount more than 25,000 BAD_REQUEST		
EP0344	D	Requested refund amount is greater than original amount		
EP0345	D	Token not associated with the merchant	BAD_REQUEST	
EP0346	D	ACH Service not enabled for merchant	BAD_REQUEST	
EP0347	D	Merchant is not allowed to use API	BAD_REQUEST	
EP0403	D	No customer found	BAD_REQUEST	
EP0408	D	Merchant is not configured for %s Type payment	BAD_REQUEST	
EP0414	D	Invalid Token. %s	BAD_REQUEST	
EP0414	D	Customer already exists	BAD_REQUEST	
EP0418	D	Contract cannot be associated with Suspended Billing Plan	BAD_REQUEST	
EP0419	D	Merchant is not configured for E-Check payment	BAD_REQUEST	
EP0421	D	Invalid %s with value %s. Only Y or N is accepted	BAD_REQUEST	
EP0422	D	At least one contract should be present	BAD_REQUEST	
EP0422	D	Invalid start date. Contract Start Date %s cannot be past date.	BAD_REQUEST	
EP0423	D	This Merchant does not have selected Billing Plan	BAD_REQUEST	
EP0423	D	Invalid end date. Contract End Date %s should be after Contract Start Date %s.	BAD_REQUEST	
EP0424	D	Cannot create new contract with suspended status	BAD_REQUEST	
EP0428	D	No contract found	BAD REQUEST	
EP0429	D	No results found	BAD_REQUEST	
EP0446	D	No record found	BAD_REQUEST	
EP0447	D	Duplicate record '%s'	BAD_REQUEST	
EP0512	D	Error generating ACH Token for Merchant	BAD_REQUEST	
EP0765	D	Level2/Level3 is not supported by '%s' card.	BAD_REQUEST	
EP901	D	Expected Fraud Transaction	BAD_REQUEST	
EP906	D	Invalid Card Number	BAD_REQUEST	
F9909	D	cashTendered must not be less than transactionAmount BAD_REQUEST		
F9910	D	lastChipRead is Mandatory with Fallback Swipe (Icc Terminal Error) transaction	BAD_REQUEST	
F9912	D	Invalid content, one of {track1Data, track2Data, track3Data} is required	BAD_REQUEST	
F9913	D	Invalid content, {encodedCardData, keyedCardData or swipedCardData} is not Allowed with Chip Card	BAD_REQUEST	
F9914	D	emvFallbackCondition is Mandatory with Fallback Swipe transaction	BAD_REQUEST	

F9916	D	Fallback Swipe allowed with track2Data only	BAD_REQUEST
F9918	D	Invalid content, {track1Data, track3Data, emulatedTrackData} is not Allowed with Chip Card and encryptionType	BAD_REQUEST
R0001	D	Service Not Enabled	BAD_REQUEST
R0003	D	Invalid Customer Data	BAD_REQUEST
R0009	D	Chargeback Shutoff	BAD_REQUEST
T0001	D	Service Not Enabled	BAD_REQUEST
EP0082	R	Token Service Error Occurred	BAD_REQUEST
EP0083	R	Error in Token Generation	BAD_REQUEST
A2207	R	OUTGOING_REQUEST_FAIL	INTERNAL_SERVER_ERRO R
D5213	R	Service is temporarily unavailable. Please try later	INTERNAL_SERVER_ERRO R
E0015	R	Unable to process your request. Settlement InProgress.	BAD_REQUEST
E0910	R	Time out	TIMEOUT
E5213	R	Service is temporarily unavailable. Please try later	INTERNAL_SERVER_ERRO R
E6072	R	Transaction is in process. Please try again after some time.	INTERNAL_SERVER_ERRO R
E8900	R	System Error	INTERNAL_SERVER_ERRO R
EP0113	R	Multipass Service Failed. Please retry or contact system administrator.	BAD_REQUEST
EP0114	R	Internal error occurred. Please retry or contact system administrator.	BAD_REQUEST
EP0125	R	Transaction has been declined, please try again	BAD_REQUEST
EP0126	R	System Error!!	BAD_REQUEST
EP0326	R	System Error. Please try again	INTERNAL_SERVER_ERRO R
EP0327	R	System Error. Please try again	INTERNAL_SERVER_ERRO R
EP0328	R	System Error. Please try again	INTERNAL_SERVER_ERRO R
EP0329	R	System Error. Please try again	INTERNAL_SERVER_ERRO R
EP0331	R	%s with value %s not supported	INTERNAL_SERVER_ERRO R
T0003	R	Service Unsucessful	INTERNAL_SERVER_ERRO R

AVS Reponses

AVS, or Address Verification Service, compares the Card Holders Billing address information to the information on file for the Card Holders at their Issuing bank. The service presents the results based upon the level of information provided. Typically, merchants use just the Billing Zip code to compare due to the variation of street address.

EdgePay has 3 options for supporting AVS. They are:

- 1. Decline on AVS Billing Zip Code mismatch If configured for the merchant, if the Zip Code does not match the Zip code on file, EdgePay will decline the payment request and reverse the authorization request back to the card issuer
- 2. No Action on AVS information No action will be taken with respect to AVS results and it is up to your system to decide to accept the approved payment or decline the payment. If you decide to decline the payment we recommend you refund, (reverse) the approved payment request authorization.
- 3. FMS Review on AVS Mismatch You can setup in our Fraud Management Service to review all AVS mismatches. The Payment request is Approved and will process but, the payment will be displayed in the FMS review screen and you can take action there to accept or refund the transaction.

Here is a table of all possible AVS Responses.

Code	Authorization Response Message	Response Definition
0	Approved	Address verification was not requested.
А	Address Match	The street address submitted matches what is on file.
В	Address Match	The street address submitted matches what is on file. The ZIP code does not match what was on file.
С	Service Unavailable	This service is not supported.
D	Exact Match	The street address submitted matches what is on file.
F	Exact Match	The street address and ZIP code submitted match what is on file. This applies to UK transactions.
G	Version Unavailable	The issuer does not participate in this service. This applies to non-US issuers.
I	Version Unavailable	The AVS information was not verified.
М	Exact Match	The street address submitted matches what is on file.
N	No Match	Neither the street address or ZIP code match what is on file.

Р	Zip Match	The ZIP code submitted matches what is on file. The street address does not match what is on file.
R	Retry	The issuer system is currently unavailable.
S	Serv Unavailable	This service is not supported.
U	Ver Unavailable	AVS is unavailable.
W	Zip Match	The nine character ZIP code submitted matches what is on file.
Х	Exact Match	The nine character ZIP code submitted matches what is on file.
Υ	Exact Match	The five character ZIP code submitted matches what is on file.
Z	Zip Match	The nine character ZIP code submitted matches what is on file.
1	Cardholder name and ZIP match	AMEX only; The cardholder name and ZIP code submitted matches what is on file.
2	Cardholder name, address, and ZIP match	AMEX only; The cardholder name, address, and ZIP code submitted match what is on file.
3	Cardholder name and address match	AMEX only; The cardholder name and address submitted match what is on file.
4	Cardholder name match	AMEX only; The cardholder name submitted match what is on file.
5	Cardholder name incorrect, ZIP match	AMEX only; The cardholder name does not match what is on file. The ZIP code submitted matches what is on file.
6	Cardholder name incorrect, address and ZIP match	AMEX only; The cardholder name does not match what is on file. The address and ZIP code submitted matches what is on file.
7	Cardholder name incorrect, address match	AMEX only; The cardholder name does not match what is on file. The address submitted matches what is on file.
8	Cardholder, all do not match	AMEX only; Neither the cardholder name, address, or ZIP code match what is on file.

CVV Response

If the CVV, (Security Code) does not match the Security Code on file for the Card issued, EdgePay will decline the transaction.

Please consider using a Decline flow logic.

Code	Response Description
М	CVV2 verification successful
Р	CVV2 verification not performed
U	CVV2 verification not available
N	CVV2 verification fail/mismatch
S	CVV2 code not present on card

5 EDGEPAY PIVOT

5.1 DEVELOPMENT AND PRODUCTION URL'S

Development

Function	URL
One Time Pivot Key	https://api.edgepay-uat.com/generatePivotAuthKey
Pivot JS script	https://static.portal.edgepay- uat.com/public/js/edgepayPivot.min.js
Refund	https://api.edgepay-uat.com/refund
Token	https://api.edgepay-uat.com/token
Recurring	https://api.edgepay-uat.com/recurring/customer/add

Production

Function	URL
One Time Pivot key	https://edgepayapi.com/generatePivotAuthKey
Pivot JS script	https://static.edgepayportal.com/public/js/edgepayPivot.min.j
Refund	https://edgepayapi.com/refund
Token	https://edgepayapi.com/token
Recurrin g	https://edgepayapi.com/recurring/customer/add

5.2 THE IMPLEMENTATION

EdgePay Pivot is a JavaScript Library and Function that you can add to your Payment page and bypass sending sensitive card data to your server, thus eliminating the risks associated with storing, processing, or transmitting credit card data and allows you to operate in a PCI Compliance way.

You would use this Library and Function if do not want to store, process, or transmit card data on your system. If your design already includes server-side card processing, this library and function may not be for you.

For Production processing you will use the Merchant Key, Merchant ID, and Terminal ID we setup for you. For testing purposes please feel free to use the information provided below in the code snippets.

EdgePay Pivot is a 2-step process:

Step 1: At the point of "Checkout" your Server-Side code will execute the following code to retrieve a 1-time Pivot Authentication Key from our Server. This 1-time use key allows you to use the EdgePay Pivot to get a 1-time Token to replace the Card data.

The 1-time Pivot Authentication Key is valid for only 15 minutes, then expires. The key is also not valid after it has been submitted and used. Here is the code you would use to request the 1-Time Pivot Authentication Key from your server.

Java:

- OkHttpClient client = new OkHttpClient();
 MediaType mediaType = MediaType.parse("application/json");
 RequestBody body = RequestBody.create(mediaType, "{ \r\n \"merchantID\":\"63203401234569 01\",\r\n \"terminalID\":\"88800000282601\"\r\n}\r\n ");
- 6.

 Request request = **new** Request.Builder().url("https://api.edgepay-uat.com/generatePivotAuthKey").post(body).addHeader("Content-Type", "application/json").addHeader("merchantKey", "C8E05D70D3C8D3D675EAA2FE86674FE
- 7. ").addHeader("externalReferenceID", "1234561528498479").addHeader("transactionDate", "2018 -06-08T00:01:00").addHeader("Cache-Control", "no-cache").build(); 8.
- 9. Response response = client.newCall(request).execute();

Python:

A3BCE1AFBECA4322C

```
import http.client
   conn = http.client.HTTPConnection("api.edgepay-uat,com")
3.
5. payload = "{ \r\n \"merchantID\":\"6320340123456901\",\r\n \"terminalID\":\"88800000282601\"\
   r\n}\r\n "
6.
   headers = {
7.
      'Content-Type': "application/json",
8.
      merchantKey': "C8E05D70D3C8D3D675EAA2FE86674FEA3BCE1AFBECA4322C
9. ".
10.
      'externalReferenceID': "1234561528498328",
11.
     'transactionDate': "2018-06-08T00:01:00",
      'Cache-Control': "no-cache"
12.
13. }
```

```
14.
15. conn.request("POST", "generatePivotAuthKey", payload, headers)
16.
17. res = conn.getresponse()
18. data = res.read()
19. print(data.decode("utf-8"))
```

C#

```
    var client = new RestClient("https://api.edgepay-uat.com/generatePivotAuthKey");
    var request = new RestRequest(Method.POST);
    request.AddHeader("Cache-Control", "no-cache");
    request.AddHeader("transactionDate", "2018-06-08T00:01:00");
    request.AddHeader("externalReferenceID", "1234561528498677");
    request.AddHeader("merchantKey", "C8E05D70D3C8D3D675EAA2FE86674FEA3BCE1AFBEC A4322C
    ");
    request.AddHeader("Content-Type", "application/json");
    request.AddParameter("undefined", "{ \r\n \"merchantID\":\"6320340123456901
    \",\r\n \"terminalID\":\"88800000282601\"\r\n}\r\n \", ParameterType.RequestBody);
    IRestResponse response = client.Execute(request);
```

This request will return the following response to your Server as an Approved Transaction, providing your Server a 1-Time Pivot Key.

Success:

```
    "result": "A",
    "responseCode": "EP0020",
    "responseMessage": "Pivot Key Generation Successful",
    "timestamp": "2018-06-08 22:35:42.486",
    "pivotAuthKey": "eyJhbGciOiJIUzI1NiJ9.eyJzdWliOiJ7XCJtZXJjaGFudEtleVwiOlwiTnlCNWJPT 01jT1EwZklvZnVnMXpQZE1WQ05HVU5iZmdyMUt2c2FlNmE5NFprY0hqdEE3MkRVZWptTGxK cnFVejBuWithVUZoU3ZSZE42amdmdkNRYXN3aE9jMm80bGd1YjV5NmQ2eEJQdDg9XClsXCJt ZXJjaGFudEIEXCI6XCI2MzlwMzQwMTIzNDU2NzlyXClsXCJ0ZXJtaW5hbEIEXCI6XCI4ODgwM DAwMDI4MjYwMVwiLFwiZXhwaXJlc0luU2Vjb25kc1wiOjkwMCxclmdlbmVyYXRpb25UaW1lSW5 NaWxsaXNcljoxNTI4NDk3MzQyNDg0fSIsImlhdCl6MTUyODQ5NzM0Mn0.1Ytwan7EvC4EqvsQ-dsS4iiXAQd_zTWqAFigDqnJvR0"
```

There can also be a negative response in the request for a 1-Time Pivot Key. This can come in the form of 'Decline, Retry, or Call for Help' within the result field.

Error:

```
    1. {
        2. "result": "R",
        3. "responseCode": "EP0900",
        4. "responseMessage": "Message format not supported"
        5. }

    1. {
        2. "result": "D",
        3. "responseCode": "EP0102",
        4. "responseMessage": "The value '63203401234567221' of element 'merchantID' is not valid."
        5. }
```

Here is a table of all responses and appropriate action to take:

RESULT	RESPONSE CODE	RESPONSE MESSAGE	RECOMMENDED NEXT ACTION
А	EP0020	Pivot Key Generation Successful	Use the Pivot Key to generate Payment Page (See below)
С	EP0900	Message format not supported	Call GET for support
С	EP0102	The value 'xxx' of element 'merchantID' is not valid	The Merchant ID in the request packet is not valid. Verify your input
С	EP0102	The value 'xxx' of element 'terminalID' is not valid	The Terminal ID in the request packet is not valid. Verify your input.
С	EP0012	Authentication failed, please use valid credentials	The Merchant Key is not valid. Update Merchant key.
D	EP0101	The value of element 'externalReferenceID' is missing	The externalReferenceID must be included with every request, and be unique
D	EP0101	The value of element 'merchantID' is missing	The merchantID must be included with every request, and be unique
D	EP0101	The value of element 'terminalID' is missing	The terminalID must be included with every request, and be unique
R	EP0999	System Error	Internal Server error, please retry request

Here are the details of the Response data:

Field	Attribute	Description	
result	A/1	A = Approved	
		D = Decline	
		R = Retry	
		C = Call for Help	
responseCode	AN/6	The 6-digit code and the table below may be used for determining next step in your code	
responseMessage	AN String	Text describing the condition	
timestamp	N/Calendar	Yyyy-mm-dd-hh-mm-ss	
pivotAuthKey	256 bits	JSON Web Key	

Once you have your 1-Time Pivot Authentication Key, you are ready to load the Payment Page. As part of that load you include the following code as part of generating the HTML page.

```
<script type = "text/javascript"</pre>
src = "https://static.portal.edgepay-uat.com/public/js/edgepayPivot.min.js"></script>
1.
    <script type = "text/javascript">
2.
3.
    EdgePay.init({
              pivotAuthKey: "eyJhbGciOiJIUzI1NiJ9.eyJzdWliOiJ7XCJtZXJjaGFudEtleVwiOlwiTGdSWERva21
            mbGc1Y3F4anVVUG5aRlpLVHpGZ1hFZGt0Vlo0YkNybnllVHdleXJ0YW53UDhOQW5kbmFwNm9
            xU3o0SnNIaDVNTm5SNWFFWTBMUThCdHEzVmRibEcwL3YvK21JMWJIYm92WjA9XClsXCJtZ
            XJjaGFudEIEXCI6XCI2MzIwMzQwMTIzNDU2NzIyXCIsXCJ0ZXJtaW5hbEIEXCI6XCI4ODgwMDA
            wMDI4MjYwMVwiLFwiZXhwaXJlc0luU2Vjb25kc1wiOjkwMCxcImdlbmVyYXRpb25UaW1ISW5NaW
            xsaXNcljoxNTI4NDk5NTU3NDQzfSlsImlhdCl6MTUyODQ5OTU1N30.hyP_leBSjd9bLb-cXfAik-
            Yf9gcDnWjE6Fe29EPpG0c" (This is the key from the 1-time pivot key request)
5.
   });
6.
    EdgePay.getToken({
      formFieldIdSelector: {
8.
        submitButton: "btnSubmit",
9.
10.
        cardNumber: "inputCreditCard",
        cardExpirationDate: "inputExpirationDate",
```

```
12.
         cvv2: "inputCVV2"
13. },
14.
      onSuccess: function(success) {
15.
      /*success call back to applied business logic*/
16.
      /*tokenID can be found in success.body.tokenID */
17.
                 document.getElementById("token").value= success.body.tokenID;
18.
                      document.getElementById("paymentForm").submit();
19.
      onError: function(error) {
20.
21.
      /*error call back to applied business logic*/
22.
23.
24. });
25.
26. </script>
```

If your page have the card expiration date in two different fields (month and year), you can replace the cardExpirationDate field with the cardExpirationMonth and cardExpirationYear fields in the getToken function:

```
27. EdgePay.getToken({
28. formFieldIdSelector: {
29. submitButton: "btnSubmit",
30. cardNumber: "inputCreditCard",
31. cardExpirationMonth: "inputExpiryMonth",
32. cardExpirationYear: "inputExpiryYear",
33. cvv2: "inputCVV2"
34. },
```

This function will download the EdgePay JavaScript library and add to the user's browser.

Within the code you added are the variables that holds the 1-time Pivot Authentication Key. Please insert the key you retrieved from the previous request in the pivotAuthKey variable when you build the page.

Also, within the code is the definitions required to download the library to process the Card information and return the 1-Time token. The code controls the input variables and submit button as well as handling an Ajax Method that will get fired from executing the Submit button. This method will send the Card Information to EdgePay using the 1-Time Pivot Key for Authentication.

For your Payment form most of the variables are fixed but we recognize there are several approaches to Card Expiration Date. Thus, we have enabled the following formats within the EdgePay Pivot Library: CARD EXPIRATION DATE FORMATS SUPPORTED:

MMYY

MMYYYY

MM/YY

MM YY (2 Fields)

MM YYYY (2 Fields)

Feel free to create the Card Expiration format that best fits your page and needs.

The Java script library will perform the following edits as part of entry on the form:

		RAW	
cardNumber	This is required.	{"errorType":"VALIDA TION_FAILED","body" :[{"fieldName":"card Number","errorText": "This is required"}]}	
cardNumber	Must be a number	{"errorType":"VALIDA TION_FAILED","body" :[{"fieldName":"card Number","errorText": "Must be a number"}]}	
and Swainstine Sield	Card Expiration Field is	{"errorType":"VALIDA TION_FAILED","body" :[{"fieldName":"cardE xpirationField","error Text":"Card Expiration Field is required"}]}	
		cardNumber Must be a number Card Expiration Field is	

VALIDATION_FAILED	cardExpirationDate	Card Expiration format not matched	{"errorType":"VALIDA TION_FAILED","body" :[{"fieldName":"cardE xpirationDate","error Text":"Card Expiration format not matched"}]}
VALIDATION_FAILED	cardExpirationMonth/ cardExpirationYear	Card Expiration format not matched	{"errorType":"VALIDA TION_FAILED","body" :[{"fieldName":"cardE xpirationMonth/card ExpirationYear","erro rText":"Card Expiration format not matched"}]}
VALIDATION_FAILED	cardExpirationField	Please input cardExpirationField field or combination of cardExpirationMonth and cardExpirationYear fields	{"errorType":"VALIDA TION_FAILED","body" :[{"fieldName":"cardE xpirationField","error Text":"Please input cardExpirationField field or combination of cardExpirationMonth and cardExpirationYear fields"}]
VALIDATION_FAILED	cvv2	Must be a number	{"errorType":"VALIDA TION_FAILED","body" :[{"fieldName":"cvv2" ,"errorText":"Must be a number"}]}
VALIDATION_FAILED	cvv2	Length must be xxxx or xxx	{"errorType":"VALIDA TION_FAILED","body" :[{"fieldName":"cvv2" ,"errorText":"Length must be xxxx or xxx"}]}
VALIDATION_FAILED	cardNumber	It is not a proper card number	{"errorType":"VALIDA TION_FAILED","body" :[{"fieldName":"card Number","errorText": "It is not a proper card number"}]}

	See Raw	See Raw	{"errorType":"VALIDA TION_FAILED","body" :[{"fieldName":"card Number","errorText": "It is not a proper card number"},{"fieldNam e":"cw?" "errorText"
			e":"cvv2","errorText"
			:"Length must be xxxx
VALIDATION_FAILED			or xxx"}]}

These edits will be corrected by the User before the code will allow the user to proceed.

Upon the user selecting the Submit button the JavaScript library that is downloaded executes a request to EdgePay and returns a 1-Time token to replace the Card information, (Credit Card Number, Expiration Date, and CVV Value). This token is time sensitive as well and will expire in 15 minutes.

You will use the "OnSuccess" Call back method to generate your POST back to your server with your order information and the 1-Time token which is now ready to make the payment from your server using the EdgePay Payment API and inputting the Token instead of the Credit Card information.

Here is the "OnSuccess" response message:

{body":{"result":"A","responseCode":"EP0081","responseMessage":"Successful","merchantID":" 6320340123456722","tokenID":"5839914216406751","cardExpirationDate":"0220"},"status":20 0}"

After processing the Payment request use the Payment Response Result to determine your next action. If the Payment Response is an "OnError" response and you wish to ask the Customer for another form of payment or re-enter your card information you must first request another 1-Time Authentication Key and load asynchronously to the current Payment page, then display the work flow instructions to the user.

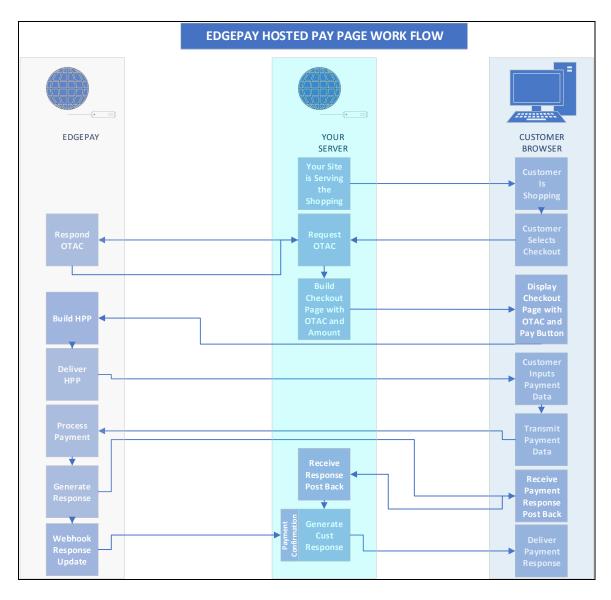
If you receive a "OnError" result use the workflow below to facilitate next steps for your development. These can be performed on form via JavaScript or back at your server.

Result	RESPONSE CODE	RESPONSE MESSAGE	RAW	RECOMMENDED NEXT ACTION
R	EP0999	System error	{"errorType":"SERVICE_INVOCATION_ERROR", "body":{"result":"R","responseCode":"EP0999", "responseMessage":"System error", "timestamp":"2018-06-12-14-43-55"},"status":500}	Request a new 1-Time Pivot Key and resend request
D	EP0055	Invalid Expiry Date	{"errorType":"SERVICE_INVOCATION_ERROR", "body":{"result":"D","responseCode":"EP0055", "responseMessage":"Invalid Expiry Date (MMYY)","merchantID":"6320340123456722", "cardExpirationDate":"1111"},"status":400}	Display result to user and request corrected Date. Note; Requires a new Pivot Key
D	EP0012	Authentica tion failed, please use valid credentials	{"errorType":"SERVICE_INVOCATION_ERROR","body":{"result":"D","responseCode":"EP0012","responseMessage":"Authentication failed, please use valid credentials."},"status":400}	The 1-time Key was invalid. Request another 1- Time key and resubmit
С	EP0900	Message format not supported	{"errorType":"SERVICE_INVOCATION_ERROR","body":{"result":"C","responseCode":"EP0900","responseMessage":"Message format not supported"},"status":400}	This is an internal Key error. Call for help!
D	EP0054	Card number is invalid	{"errorType":"SERVICE_INVOCATION_ERROR","body":{"result":"D","responseCode":"EP0054","responseMessage":"Card number is invalid","merchantID":"6320340123456722","cardExpirationDate":"0220"},"status":400}	The customer input an invalid card. Get a new key and prompt to retry card input
D	EP0102	The value 'XXXX' of element 'cardExpira tionDate' is not valid.	{"errorType":"SERVICE_INVOCATION_ERROR","body":{"result":"D","responseCode":"EP0102","responseMessage":"The value '0200' of element 'cardExpirationDate' is not valid."},"status":400}	The customer input an invalid Expiration date. Get a new key and prompt to retry Card Expiration input

This concludes the EdgePay Pivot work flow. If you have additional questions, please contact us at 888.775.1500.

6 HOSTED PAYMENT PAGE

The EdgePay hosted payment page is a service that uses our server to process the payment. By using this service, you avoid storing or processing Credit Card data on your server and the challenges of PCI audit or certification. Below is a flowchart to help understand the interfaces and process.



Prior to using this process, you must use our Hosted Pay Page function in our "Processing Center" to construct your Hosted Pay Page, "Pay Button" and define your Post Back URL.

The Webhook Confirmation is a future deliverable for Q1 2019.

This payment interface requires minimal web development and maintenance because it is managed by EdgePay. It also reduces the merchant liability for PCI compliance because the liability resides on our platform, out of the merchant's environment.

6.1 STEP 1: SETTING UP A HOSTED PAYMENT PAGE

The Hosted Payment Page under Settings menu allows the Merchant to set up their payment page. Once a user successfully login to the EdgePay Application UI, user specific Dashboard page will be displayed to the user with a left navigation menu based on the user privileges provided.

6.1.1 To setup the hosted payment page the merchant will

- 1. log on to www.edgepayportal.com
- 2. Under settings select Hosted Payment Page
- 3. Select **Add Details**. The **HPP Information** screen will appear
- By editing the following fields set up various merchant-specific fields which will result in the look and feel of the merchant company

a. **Field** Description Style Settings Font Style List of Font Styles normal italic oblique initial inherit Font Color Users can Select Font Color from a Color Panel. Colo Hue: 160 Sat: 0 Green: 238 OK Cancel Add to Custom Col

Field	Description		
Background Color	Users can Select Background Color from a Color Panel.		
Upload Image	User can upload Image which will be used as Logo.		
Header/Footer Option	User can select Header or Footer placement for the Logo.		
Header Text	User can specify Header Text		
Footer Text	User can specify Footer Text		
	Processing Options		
Response URL	The response URL for the HPP.		
Payment Options	It can be eCheck or Credit or Both.		
Maximum Attempts	Maximum Attempts to be entered		
Return Token	Return a Token if Transaction is Approved		
Default Currency	This will be USD		
Require CVV2	This will provide an option whether CVV2 is required or not.		
	Checkout Button Settings		
Button Selection	Button selection from options in library		
Button Color	Set Button color.		
Button Type	Set Button type (Raised, Flat).		
Button Text Font	Set Button Font.		
Button Text	Set Button Text.		
Button Text Color	Set Button Text Color.		

- 5. Select **Save**. Selecting **Save** shows the button code for '**Payment**' that will appear on the merchant page
- 6. Copy the button code by clicking on **Copy Button Code**. A sample button code is provided below.

A sample button code

6.2 STEP 2: PAYMENT BUTTON INTEGRATION

In this step the merchant can embed a **Payment** button on their Checkout webpage. Selecting this button will redirect to the EdgePay Gateway to serve the payment processing page to the customer you created in step 6.1.1.

6.2.1 To integrate the Payment button

- 1. Generate JavaScript code of button by saving HPP setting in edgepay portal.
- 2. In the page where the payment button is to be integrated, implement One Time Authentication Code (OTAC) generation by using OTAC API on page load (see 6.2.2). You also need to assign the OTAC from the API to the hidden element with ID: edgepay-otac.
- 3. Populate or map the amount in the *hidden* amount field with ID: edgepay-amount.
- 4. Embed the JavaScript code generated in *Step 1* in the page.

Prior to serving this page to the Customer you will request a 'One Time Authentication Code" from EdgePay and include both the OTAC and Amount in hidden fields on the page. NOTE: Some times you may want or need to update the Amount prior to the Customer selecting the "Pay Button." You can do this with Javascript on the page.

6.2.2 Requesting the OTAC

The One Time Authentication Code is requested from your server prior to serving up your Checkout page with the EdgePay Pay Button. The request/Response is a RESTful message using JSON format. The request will include your Merchant Key from your server to authenticate the request. The response will include the OTAC that will be used to authenticate the request. The OTAC expires in 15 minutes from the request.

```
POST /otac HTTP/1.1
Host: api.edgepay-uat.com
Content-Type: application/json
merchantKey: B9B51FC2490BEC32B6D3B9F4C13ED35D6E753EC4133BDC6E
externalReferenceID: 1234561527119391
transactionDate: 2018-05-23T02:00:00

{
    "merchantID":"6320340123456902",
    "terminalID":"88800000282601"
}
```

As always, you must update the externalRefernceID to a unique value, (recommend your phone number and increment and set the transactionDate to 'Today UTC'.

The OTAC Service will respond with the following RESTful message:

```
{
    "result": "A",
    "responseCode": "A0000",
    "responseMessage": "Success",
    "merchantID": "6320340123456902",
    "terminalID": "88800000282601",
    "timestamp": "2018-05-23-23-53-45",
    "transactionID": "CS11876175370499715",
    "otac": "6f31eb30-e30a-4c9a-a361-f9ec9391c556"
}
```

If there is an error in the OTAC request, you will see the following response:

```
{
    "result": "C",
    "responseCode": "EP0012",
    "responseMessage": "Authentication failed, please use valid credentials.",
    "merchantID": "6320340123456902",
    "terminalID": "88800000282601",
    "timestamp": "2018-07-16-19-39-04",
}
```

If this condition occurs, there is an issue with your merchantKey that you provided for the request. You may also receive these error conditions as well:

```
{
    "result": "D",
    "responseCode": "EP0102",
    "responseMessage": "The Value '%s' of element '%s' is not valid",
    "merchantID": "6320340123456902",
    "terminalID": "88800000282601",
    "timestamp": "2018-07-16-19-39-04",
}

If this occurs, the merchantID or terminalID may be in error.

{
    "result": "D",
    "responseCode": "EP0326",
    "responseMessage": "System Error. Please Try Again",
    "merchantID": "6320340123456902",
    "terminalID": "88800000282601",
    "timestamp": "2018-07-16-19-39-04",
}
```

This condition would occur when we have an internal server error. We suggest a retry on this response.

6.3 HOW HPP WORKS

- With above work complete, when a customer clicks on the EdgePay Payment button you created in the Processing Center and added to your Checkout Page, the merchant specific Hosted Payment form is served to your customer.
- 2. The customer fills out the payment information form and submits.
- The transaction is submitted to Edgepay for Payment processing. Included in the Hosted Payment Page setup is the Redirect URL our system will use to redirect the response to your server.
- 4. Once we process the payment request we will generate a HTTP 300 Redirect message that includes the origin information. We will post the Response message to the Card Holder Browser including your Response URL saved in the setup. The Browser will detect the HTTP 300 message and redirect the response message via the

GET method to your Server as a HTTP 200 mesage. Query the response url string and generate a response back to your customer. This method allows you to control any final messaging. Below is a sample Response Message for an Approved Transaction.

Here is a sample URL string:

Request URL: <u>http://ec2-36-220-202-7.us-west-</u>

<u>2.compute.amazonaws.com/home/hpp?result=A&responseCode=A0000&responseMessage=Success&amount=10.01&maskedAccount=401200*****5439&transactionID=CS49700897428090290×tamp=2018-09-28T20:16:34</u>

Request Method: GET Status Code: 200 OK

Remote Address: 36.22-.202.7:80

Referrer Policy: no-referrer-when-downgrade

Response Headers

Cache-Control: private Content-Length: 2301

Content-Type: text/html; charset=utf-8 Date: Fri, 28 Sep 2018 20:16:36 GMT

Server: Microsoft-IIS/10.0

Request Headers

Accept:

text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*

;q=0.8

Accept-Encoding: gzip, deflate Accept-Language: en-US,en;q=0.9

Cache-Control: no-cache Connection: keep-alive

Host: ec2-36-220-202-7.us-west-2.compute.amazonaws.com

Pragma: no-cache

Upgrade-Insecure-Requests: 1

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36

(KHTML, like Gecko) Chrome/69.0.3497.100 Safari/537.36

Query String Parameters

result: A

responseCode: A0000 responseMessage: Success

amount: 10.01

maskedAccount: 401200*****5439 transactionID: CS49700897428090290

timestamp: 2018-09-28T20:16:34

We recommend using the Result Code to interpert the correct Work Flow for your pages. Please reference the Response Code Table and AVS Response in Section 4 to see possible responses and recommended actions on generating and delivering Responses to your customer.

7 SHOPPING CART INTEGRATION

EdgePay is currently integrated in Direct Mode to WooCommerce.

8 EDGEPAY BATCH PAY

The EdgePay Batch Upload service extends you the ability to send us a file of transaction to process. For some business situations it is most convenient to send transactions in a file. BatchPay supports that need. A common example is taking shipping records off a CRM to generate Capture transactions.

BatchPay is accessed from the Processing Center. You will need a .csv file to upload transactions for processing.

Selecting BatchPay link from EdgePay menu (Figure: 8-1) allows user to perform following:

- MID—To select Merchant ID.
- Upload Batch File—For uploading file of transactions in pre-defined format.
- Report

 Report page shows detailed report of all the items in the batch and status.

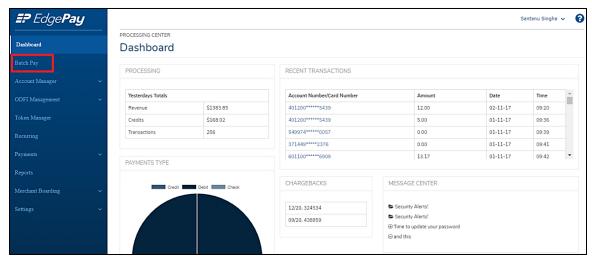
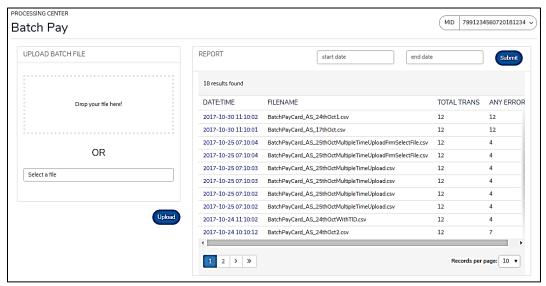


Figure: 8-1: Batch Pay Menu

Figure: 8-2: Batch Pay Menu



8.1 UPLOADING THE BATCH

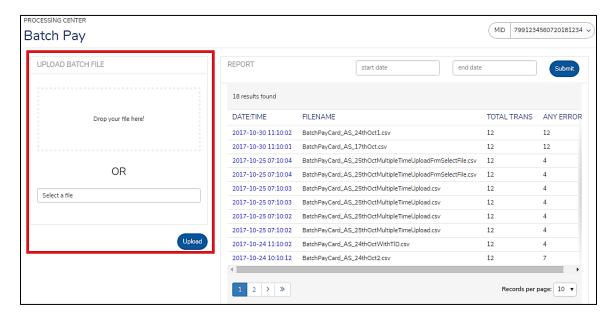
Upload Batch files allows user to upload file of transactions in pre-defined format (.csv format) as shown in

- . User can upload files in 2 ways:
 - Drag and drop—drop a file onto the page for upload.
 - Browse

 Browse files using the 'Windows Open' dialog box.

The upload service will check the file extension and attributes of the file to insure the file conforms to the format specified.

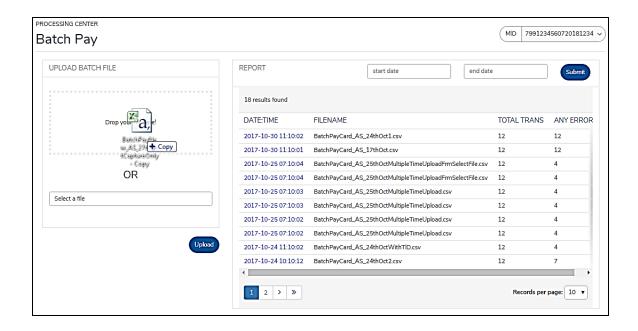
Batch Pay Upload



8.1.1 Drag and drop

To drag and drop batch file for uploading, the file must be in .csv format as shown below.

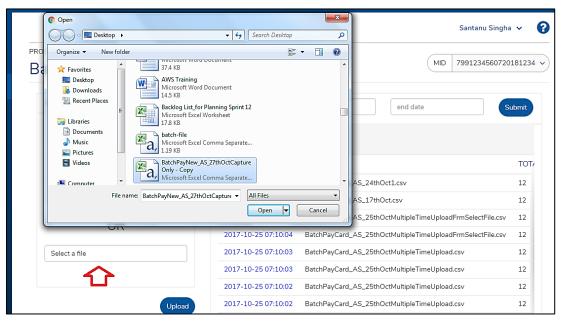
Batch Pay Drag-and-Drop File



8.1.2 Browse

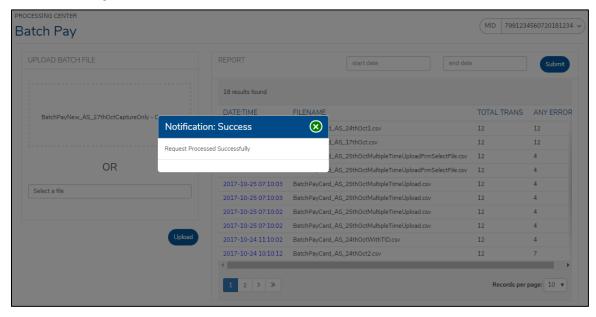
From Upload Batch file menu, choose select a file menu, browse, and select the file from your system as shown above. The file must be in .csv format. After selecting the file, click on the upload button.

Browse Batch File for Upload



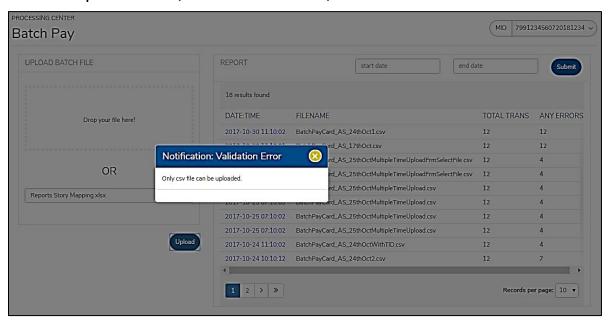
Selecting the "Upload" button will result in a "Success Message" notification as shown below.

Batch File Upload Success



The system will perform Validation Error message if user tries to upload files of another format than .csv as shown below

Batch File Upload Failure (File Format Validation)

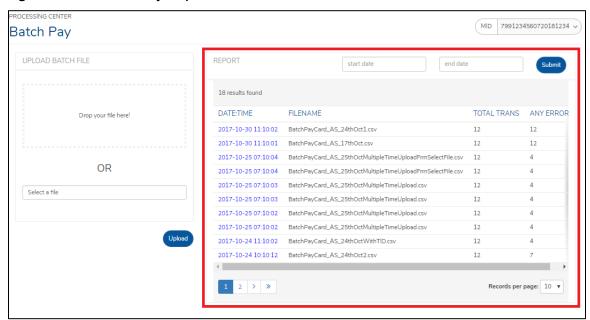


8.2 BATCHPAY REPORTS

The BatchPay Reports provides a list of the last *ten* days batch report that is generated after the batch is processed as shown in 2. The BatchPay Report allows user to generate following:

- A link to specific reports.
- Selecting Submit button by choosing a start date and end date, a report range can be viewed.
- Report can be filtered by selecting MID from drop-down.

Figure: 8-2: BatchPay Report



The report section displays the fields shown in 8-3.

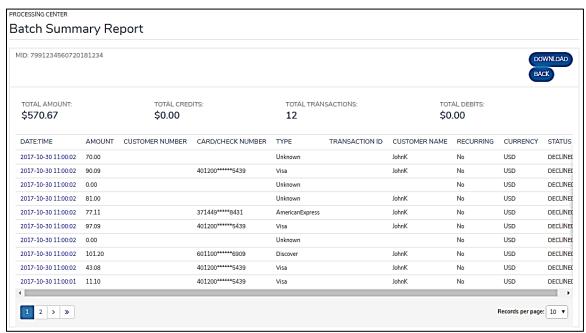
Table: 8-3: BatchPay Report

Fields	Description
DATE:TIME	Displays the date and time of the batch file when it was uploaded to the system.
FILENAME	Shows the Batch File name.
TOTAL TRANS	Shows the number of total transaction in the Batch File.
ANY ERRORS	Shows the number of Error if any.

Note: The **DATE:TIME** field is a hyperlink. Selecting the hyper link the Batch Summary Report opens up in a new page.

The Batch Summary Report is shown below.

Batch Summary Report



The batch summary reports header displays the fields shown in the table below:

Table: 8-1: Batch Summary Report

Fields	Description
Total Amount	Displays total amount of the transactions in the batch file.
Total Credits	Displays total credits of the transactions in the batch file.
Total Transactions	Displays the total number of transactions in the Batch file.
Total Debits	Displays total debits of the transactions in the batch file.

The batch summary report provides the following:

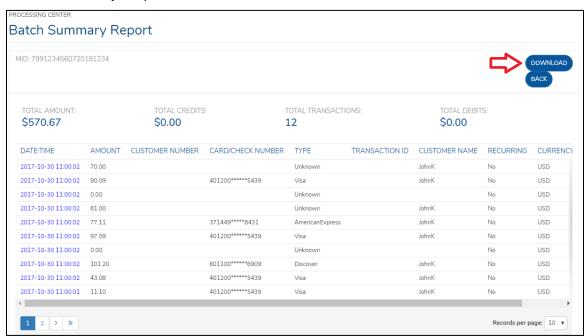
- Information about the individual transactions in the batch file.
- It shows information about the following fields for transactions present in the batch file:

- DATE:TIME
- Amount
- Customer Number
- Card/ Check Number
- Type
- Transaction ID
- Customer Name
- Recurring
- Currency
- Status

8.2.1 Report Download

Selecting Download button user can download the Batch Summary Report in .CSV format as shown below

Batch Summary Report

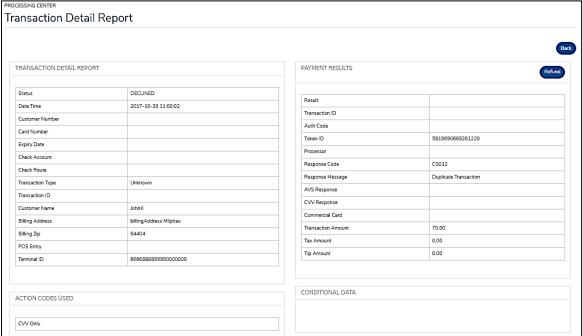


Selecting Back button will take user back to Batch Pay landing page.

8.2.2 Transaction Detail Report

The DATE:TIME field is hyperlinked. Once user clicks on the DATE:TIME of a transaction, the hyperlinks directs the user to Transaction Detail Report (Described in Report Section) page. Transaction Detail Report shows the details of the transaction as shown below.

Batch Summary Report-Transaction Detail



8.3 BATCHPAY FILE FORMAT

BatchPay file will be of CSV format with fields as stated below

Table: 8-2: BatchPay File Specification

Fields	Description
externalReferenceID	External Reference ID
cardNumber	Card Number
cardExpirationDate	Card Expiration Date
tokenID	Token ID
token	Token
eCheckRoute	eCheck Route
eCheckAccount	eCheck Account
eCheckTransType	eCheck Transaction Type
eCheckSerialNumber	eCheck Serial Number
eCheckAccountType	eCheck Account Type
goodsOrService	Goods Or Service
receivingCompanyName	Receiving Company Name

Fields	Description
paymentTypeCode	Payment Type Code
paymentDataInput	Payment Data Input
amount	Amount
currencyCode	Currency Code
customerName	Customer Name
customerNumber	Customer Number
captureOnly	Capture Only
captureToo	Capture Too
processor	Processor
billingAddress	Billing Address
billingCity	Billing City
billingState	Billing State
billingZip	Billing Zip
merchantField1	Merchant Field 1
merchantField2	Merchant Field 2
posData	Pos Data
cvv2	Cvv2
adjust	Adjust
refund	Refund
tip	Tip
tax	Tax
healthCare	Health Care
healthCareAccountType	Health Care Account Type
prescriptionAmt	Prescription Amount
visionAmt	Vision Amount
dentalAmt	Dental Amount
clinicAmt	Clinic Amount
posQualified	POS Qualified
rxNumber	Rx Number
level2	Level2
level2Auth	Level2 Auth
level2Capture	Level2 Capture
taxAmount	Tax Amount
taxCategory	Tax Category
taxRate	Tax Rate

Fields	Description
transactionDate	Transaction Date
level3	Level3
level3Auth	Level3 Auth
level3Capture	Level3 Capture
shipZipCode	Ship Zip Code
destinationZipCode	Destination Zip Code
invoiceNumber	Invoice Number
itemCode	Item Code
itemCommunityCode	Item Community Code
ItemDescription	Item Description
itemQuantity	Item Quantity
itemUnitOfMeasure	Item Unit Of Measure
itemExtendedAmount	Item Extended Amount
freightAmount	Freight Amount
dutyAmount	Duty Amount
purchaseOrder	Purchase Order
customerVATNumber	Customer VAT Number
summaryCommodityCode	Summary Commodity Code
vatInvoice	Vat Invoice
itemDiscountName	Item Discount Name
itemDiscountAmount	Item Discount Amount
itemDiscountPercentage	Item Discount Percentage
itemDiscountType	Item Discount Type
destinationCountryCode	Destination Country Code
supplierReferenceNumber	Supplier Reference Number
transactionId	Transaction Id
cardOnFile	Card On File
recurring	Recurring
billingType	Billing Type
paymentCount	Payment Count
currentPaymentCount	Current Payment Count
chargeDescriptor	Charge Descriptor
transDiscountName	Trans Discount Name
transDiscountAmount	Trans Discount Amount
authCode	Auth Code

A sample Batch File is attached for reference.



8.4 LIST OF SAMPLE BATCH FILES FOR DIFFERENT ACH OR CARD PAYMENT TYPES:

Payment Type	Sample Batch Files	Fields value need to be changed before execute
AuthOnly-Level1	AuthOnly-Level1.csv	transactionDate externalReferenceID
	Additionly Level1.csv	
AuthOnly-Level2		transactionDate externalReferenceID
	AuthOnly-Level2.csv	
AuthOnly-Level3	AuthOnly-Level3.csv	transactionDate externalReferenceID
Capture-Level 1	Capture-Level1.csv	transactionId transactionDate externalReferenceID
ForceCapture-Level1	ForceCapture-Level1	transactionDate externalReferenceID
ForceCapture-Level2	ForceCapture-Level2	transactionDate externalReferenceID
ForceCapture-Level3	ForceCapture-Level3	transactionDate externalReferenceID

Payment Type	Sample Batch Files	Fields value need to be changed before execute
Refund	Refund.csv	transactionDate externalReferenceID transactionId
Sale-HealthCare	Sale-HealthCare.csv	transactionDate externalReferenceID
Sale-Level1	Sale-Level1.csv	transactionDate externalReferenceID
Sale-Level2	Sale-Level2.csv	transactionDate externalReferenceID
Sale-Level3	Sale-Level3.csv	transactionDate externalReferenceID
Adjust	Adjust.csv	transactionDate externalReferenceID transactionId
ACH-ARC-Checking	ACH-ARC-Checking.c	transactionDate externalReferenceID
ACH-ARC- General Ledger	ACH-ARC-GL.csv	transactionDate externalReferenceID
ACH-ARC-Savings	ACH-ARC-Savings.cs v	transactionDate externalReferenceID
ACH-CCD-Checking	ACH-CCD-Checking.c	transactionDate externalReferenceID
ACH-CCD- General Ledger	ACH-CCD-GL.csv	transactionDate externalReferenceID
ACH-CCD-Savings	ACH-CCD-Savings.cs	transactionDate externalReferenceID

Payment Type	Sample Batch Files	Fields value need to be changed before execute
ACH-POP-Checking	ACH-POP-Checking.c	transactionDate externalReferenceID
ACH-POP- General Ledger	ACH-POP-GL.csv	transactionDate externalReferenceID
ACH-POP-Savings	ACH-POP-Savings.cs V	transactionDate externalReferenceID
ACH-PPD-Checking	ACH-PPD-Checking.c	transactionDate externalReferenceID
ACH-PPD- General Ledger	ACH-PPD-GL.csv	transactionDate externalReferenceID
ACH-PPD-Savings	ACH-PPD-Savings.cs	transactionDate externalReferenceID
ACH-TEL-Checking	ACH-TEL-Checking.c	transactionDate externalReferenceID
ACH-TEL- General Ledger	ACH-TEL-GL.csv	transactionDate externalReferenceID
ACH-TEL-Savings	ACH-TEL-Savings.cs	transactionDate externalReferenceID
ACH-WEB-Checking	ACH-WEB-Checking.	transactionDate externalReferenceID
ACH-WEB- General Ledger	ACH-WEB-GL.csv	transactionDate externalReferenceID
ACH-WEB-Savings	ACH-WEB-Savings.cs V	transactionDate externalReferenceID

9 EDGEPAY RECURRING PAYMENT MANAGER

The EdgePay Recurring Payment Manager is a set of services that is extended through the Processing Center. Additionally, the Application Protocol Interface allows for the addition of Customers to existing Billing Plans.

For developers please contact Developer Support to setup access to our UI for development and testing services.

By using the RPM, you can set up Products or Services under a Billing Plan and then add Customers to the Billing Plan.

The system will take those Customers and Automatically Bill them on the schedules you have pre-defined in the Billing Plan.

You can setup as many Billing Plans as you need to accommodate the variability of your business or its products or services.

9.1 RECURRING PAYMENT FEATURES:

- 1. A Customer may have more than 1 contract
- 2. Retry Options to establish the number of Retries and their timing
- Backup Payment if a Customer wishes to provide an alternative to the primary payment method
- 4. Account Updater to update cards on file
- Reports for Declined Transactions, Account Updater failures, and Expiring Contracts
- 6. Notice system of Recurring Events via email

9.2 BENEFITS OF RECURRING BILLING:

- Enhance customer relationships: Recurring billing improves the
 relationship between the business and their customers. Automated
 recurring payments offers customer convenience and operational
 efficiency. Likewise, customers who register for recurring billing are more
 apt to stay with a business long term, as it is easier for them to maintain
 their future payments.
- Increase Administrative Efficiency: Recurring payments automates manual business tasks. With automatic billing, set up a payment schedule, and then easily maintain infrequent changes that may occur with the payment method and schedule.

- 3. Reduce Declines: the automated recurring billing program can significantly reduce declined payments with the Account Updater. A card on file may expire or be replaced as a result of a new card being issued or stolen card. Account Updater services will reduce declines due to expired or replaced cards. This service maintains expiring and replacement card numbers for cards on file.
- 4. Encrypted Security: Recurring billing also gives a business the peace of mind to securely manage their customer's confidential information. Electronic billing reduces the distribution and replication of secure information through online encryption, token processing and assures PCI Compliance

9.3 ADDING BILLING PLANS

To access Recurring click the **Recurring** link from left navigation menu, the Recurring Payments landing page will open as shown in Figure 9-1.

EP Edge**Pay** Santanu Singha 🗸 0 PROCESSING CENTER Dashboard Dashboard Batch Pay PROCESSING RECENT TRANSACTIONS Account Manager ODFI Management Yesterdays Totals Account Number/Card Number Amount Date Time 11.00 12-10-17 Revenue Token Manager Credits \$35.68 *****4012005439 11.00 12-10-17 10:44 Recurring 12 12-10-17 11.00 Transactions 10:44 *****4012005439 12-10-17 11:59 PAYMENTS TYPE Payments CHARGEBACKS MESSAGE CENTER Merchant Boarding Settings Security Alerts! 12/20 324534

Figure 9-1: Recurring Menu

A Billing Plan is added from **Add Billing Plan** page.

To access Add billing plan page

Click on the Add billing plan button in the Recurring Payments Landing Page (

09/20, 438859

Figure 9-2.)

Security Alerts!

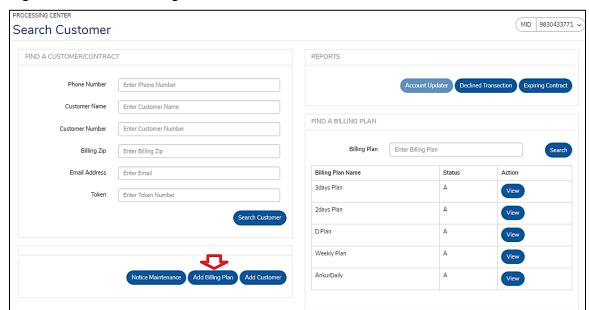
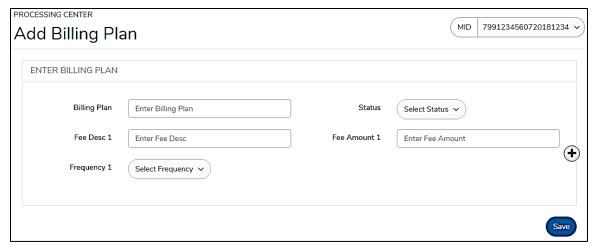


Figure 9-2: Add Billing Plan Button

A new page for Add Billing Plan will be shown (Figure 9-3.)

Figure 9-3: Add Billing Plan Page



To add a billing plan the user needs to assign a contract. Billing amount, frequency can be added from the Add Billing Plan page. The page has these fields for entry:

Table 9-3: Add Billing Plan

Convention	Description	
Billing Plan	Enter description for billing plan.	
Status	Select status of the plan: Active or Suspend.	
Fee Desc 1	Enter fee description. A contract can have more than one fee.	
Fee Amount 1	Enter Fee amount.	
Frequency	Select Frequency. Frequency can be selected from any of the following:	
	Weekly	
	Semi-Monthly	
	Monthly	
	Quarterly,	
	Semi Yearly	
	Annual	
	Specific days - Up to 60 days specified	

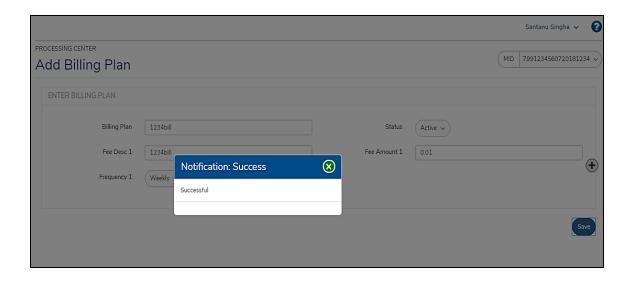
If user enters invalid data or no data, the system will not allow submission of the form and will show erroneous fields in red as shown in (Figure 2-4.)

Figure 9-4: Add Billing Plan Page – Validation Error



Once a billing plan is successfully added, the user will view success notification.

Figure 9-5: Add Billing Plan Page - Success



9.4 ADDING CUSTOMERS

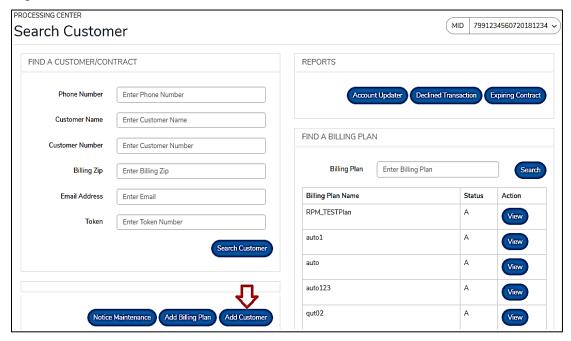
Before adding a new customer, you need to add billing plans (if no billing plans has added before; refer to Add Billing Plan), so that it is displayed at billing plan drop-down section from add customer page.

Add Customer allows user to add a customer and their associated contracts.

To add a new customer

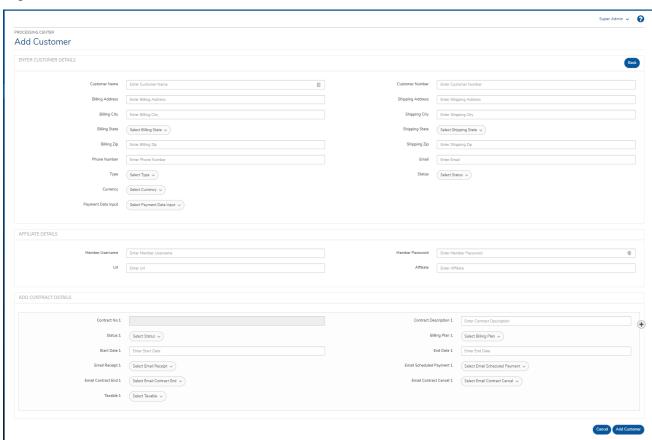
Click on the Add Customer button in the recurring payments landing page.

Figure 9-6: Add Customer Button



Clicking the Add Customer button opens a new page for Add Customer as shown in Figure 9-7:

Figure 9-7: Add Customer Button



Enter the customer details and customer contact fields in this page. A customer may have multiple contracts. These contact details can also be added here.

After entering all customer and contracts related information, click **Add Customer** button. This will allow user to register the customer to EdgePay system.

Clicking the **Cancel** button will take user back to the Recurring payments landing page as shown in Figure 9-1.

Table 9-7: Add Customer

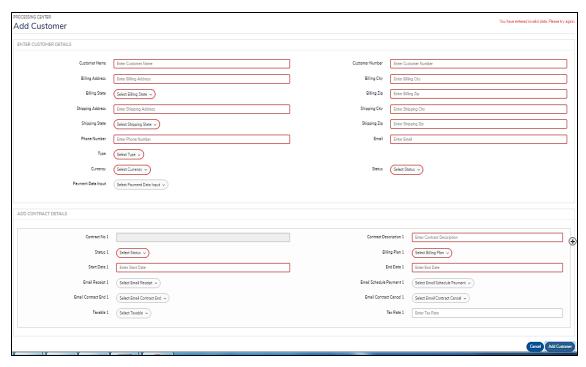
Convention	Description
Customer Name	Enter your customer name up to 30 alphanumeric character

Customer Number	Enter customer number up to 25 alphanumeric character assigned by the merchant.	
Billing Address	Enter billing address up to 200 alphanumeric character	
Billing City	Enter billing city up to 50 alphanumeric character	
Billing State	Select billing state from drop-down.	
Billing Zip	Enter billing ZIP code up to 9 numeric characters.	
Shipping Address	Enter shipping address up to 200 alphanumeric characters.	
Shipping City	Enter shipping city.	
Shipping State	Select shipping state from drop-down.	
Shipping Zip	Enter shipping zip up to 9 numeric characters.	
Phone Number	Enter your phone number.	
Email	Enter your Email ID.	
Туре	Select type, either Card, ACH or Token from drop- down	
	If card is selected, the form expands and shows additional fields for:	
	 Card Number Enter Card Number. 	
	 Card Expiry Date Enter card expiry date. 	
	 If ACH is selected, the form expands and shows additional fields for: 	
	 Account Number Enter Account Number. 	
	 Routing Number – Enter Routing Number. 	
	 Account Type Select Account type, either saving or checking or General Ledger. 	
	If Token is selected, the form expands and shows additional field for:	
	 Token–Enter Token Number. 	
Currency	Select Currency, USD. For now the system only allows USD.	

Status	Select customer status: Active or Suspend from drop-down	
Payment Data Input	Select Payment Data input from drop-down: Phone Mail Internet Swipe Manual	
Member Username	Enter Username	
Member Password	Enter Password	
Url	Enter Url	
Affiliate	Enter Affiliate	
Contract No 1	Shows contract number.	
Contract Description 1	Enter Contract Description.	
Status 1	Select Contract Status: Active or Suspend from drop-down.	
Billing Plan 1	Select billing plan form drop-down.	
Start Date 1	Click on this field to show the calendar and the select start date from calendar.	

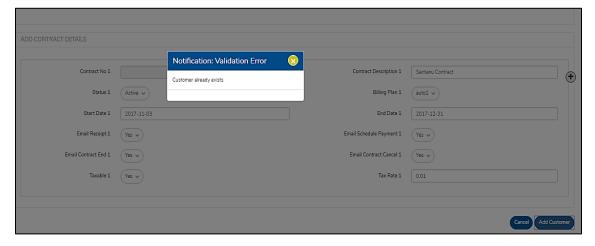
If the user enters invalid data, the system will not allow the submission of the form. The system will show error for invalid data as shown in Figure 9-2.

Figure 9-2: Add Customer Page – Validation Error



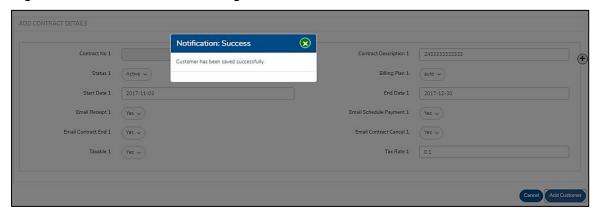
If the customer already exists in the system, the system will show a notification:

Figure 9-3: Add Customer Page – Duplicate Information Error



Once customer is successfully added, the system will show the following notification:

Figure 9-4: Add Customer Page – Success



9.5 RECURRING CUSTOMER ADD API

Below is the layout for the Payment Request Header

9.5.1.1 Recurring Customer Add Header

Header	Character	Max	Notes
POST /payment HTTP/ 1.1	AN		Current HTTP version
HOST: /api.edgepay-	AN		The API Request location
uat.com/recurring/customer/add			
Content-Type: application/json	AN		
merchantKey:	AN	48	This is a TEST KEY. Please
67168CA2B96231F4BFF26E38EFFBA2FDF			use for testing purposes only
E4001DFCBABA8EF			
externalRefernceID: 1234561523473261	N	16	Unique ID that must be
			enforced. Replace each time
			with a new Unique Key. And
			please don't use "1" as you
			will most likely get a
			Duplicate record response!
transactionDate: 2018-05-23T02:00:00	Calendar	20	Set to today, UTC

9.5.2 The Recurring Customer Add JSON Body

The Body of the Recurring Customer Add request will vary according to your specific business needs. Some items marked as BOLD are required but the others are Conditional or Optional based on your specific business or transaction needs. Let start with a few simple examples:

Simple Customer Add Transaction with cURL.

Feel free to drop this into a Terminal to test it out and get a feel for the results. You must update the externalRefernceID to a unique value and reset the transactionDate to today, UTC

```
1. cur curl -X POST \
     https://api.edgepay-uat.com/recurring/customer/add \ -H 'Cache-Control: no-cache'\ -
     H 'externalReferenceID: 1234561528752675'\ -
     H 'merchantKey: 67168CA2B96231F4BFF26E38EFFBA2FDFE4001DFCBABA8EF
2. '\ -H 'transactionDate: 2018-06-11T02:00:00'\ -d '{
     "merchantID":"6320340123456903
     ","terminalID":"88800000282601","actionCode":"A","cardNumber":"4761739001010119","cardExpiration
     Date":"0622","customerNumber":"8000465765646","customerName":"James
     Morgan", "billingAddress": "25, Spilburg lane", "billingCity": "California", "billingState": "AL",
     "billingZip": "56431", shippingAddress": "Miller street", "shippingCity": "New York",
     "shippingState":"AR", "shippingZip": "65401", "phoneNumber": "897654546654", "eMailAddress": "james@g
     mail.com", "paymentDataInput": "Mail", "customerCurrency": "840", "contractNbr":[
     "status":"A", "billingPlan": "Gym Plan", "startDate": "2018-07-18", "endDate": "2019-07-
     18","eMailReceipt":"Y","eMailSchedulePayment":"N","eMailContractEnd":"Y","eMailContractCancel":"Y",
     "taxable":"Y","taxRate":"4.0","contractDescription":"Monthly Subscription"
6.
  ]
```

Here is a Java Example:

```
    OkHttpClient client = new OkHttpClient();
    MediaType mediaType = MediaType.parse("application/json");

    RequestBody body = RequestBody.create(mediaType, "\r\n"\"merchantID\":\"6320340123456903
3. \",\r\n \"terminalID\":\"88800000282601\",\r\n \"actionCode\":\"A\", \r\n
    \"cardNumber\":\"4761739001010119\", \r\n \"cardExpirationDate\":\"0622\", \r\n
    \"customerNumber\":\"8000465765648\",\r\n \"customerName\":\"John Smith\",\r\n
    \"billingAddress\":\"1234 ABC Street\", \r\n \"billingCity\":\"Brentwood\", \r\n \"billingState\":\"CA\", \r\n
    \"billingZip\":\"96431\", \r\n \"shippingAddress\":\"1234 ABC Street\", \r\n
    \"paymentDataInput\":\"Mail\", \r\n \"customerCurrency\":\"840\", \r\n \r\n \"contractNbr\":[\r\n\r\n
            \"status\":\"A\", \r\n
                                  \"billingPlan\":\"Personal Trainer\", \r\n
                                                                            \"startDate\":\"2018-07-
    \r\n
                 \"endDate\":\"2019-07-18\", \r\n
                                                           \"eMailReceipt\":\"Y\", \r\n
    20\", \r\n
                                                  r\n
    \"eMailSchedulePayment\":\"N\", \r\n
                                           \"eMailContractEnd\":\"N\", \r\n
    \"eMailContractCancel\":\"Y\", \r\n
                                        \"taxable\":\"Y\", \r\n
                                                               \"taxRate\":\"2.00\", \r\n
    Request request = new Request.Builder()
    .url("https://api.edgepay-uat.com/recurring/customer/add")
    .post(body)
    .addHeader("Content-Type", "application/json")
    .addHeader("merchantKey"
    "67168CA2B96231F4BFF26E38EFFBA2FDFE4001DFCBABA8EF")
    .addHeader("externalReferenceID", "1234561532106278")
9. .addHeader("transactionDate", "2018-07-19T02:00:00")
10. .addHeader("Cache-Control", "no-cache")
11. .build();
12.
13. Response response = client.newCall(request).execute();
```

Here is a Python Example

```
import http.client conn = "{\r\n \"merchantID\":\"6320340123456903
    \",\r\n \"terminaIID\":\"88800000282601\",\r\n \"actionCode\":\"A\", \r\n
    \"cardNumber\":\"4761739001010119\", \r\n \"cardExpirationDate\":\"0622\", \r\n \"customerNumber\":\"8000465765646\",\r\n \"customerName\":\"James Morgan\",\r\n
    \"billingAddress\":\"25, Spilburg lane\", \r\n \"billingCity\":\"California\", \r\n \"billingState\":\"AL\", \r\n
    \"billingZip\":\"56431\", \r\n \"shippingAddress\":\"Miller street\", \r\n \"shippingCity\":\"New York\", \r\n
    \"shippingState\":\"AR\", \r\n \"shippingZip\":\"65401\", \r\n \"phoneNumber\":\"897654546654\", \r\n
    \"eMailAddress\":\"james@gmail.com\", \r\n \"paymentDataInput\":\"Mail\", \r\n
    \"customerCurrency\":\"840\", \r\n \r\n \"contractNbr\":[\r\n
                                                                        { \r\n
                                                                                   \"status\":\"A\", \r\n
    \"billingPlan\":\"Personal Trainer\", \r\n
                                                     \"startDate\":\"2018-07-20\", \r\n
                                                                                             \"endDate\":\"2019-
    07-18\", \r\n \r\n \"eMa\"eMailContractEnd\":\"N\", \r\n
                                \"eMailReceipt\":\"Y\", \r\n
                                                                 \"eMailSchedulePayment\":\"N\", \r\n
                                          \"eMailContractCancel\":\"Y\", \r\n
                                                                                    \"taxable\":\"Y\", \r\n
    \"taxRate\":\"2.00\", \r\n
                                 \"contractDescription\":\"Trainer Fee\" \r\n

 headers = {

    'merchantKey': "67168CA2B96231F4BFF26E38EFFBA2FDFE4001DFCBABA8EF",
3. 'externalReferenceID': "1234561528754878",
4. 'transactionDate': "2018-06-11T02:00:00",
5. 'Cache-Control': "no-cache",
6. }
7. conn.request("POST", "payment", payload, headers) res = conn.getresponse() data = res.read() print(da
    ta.decode("utf-8"))
```

9.5.2.1 Customer Add Response:

The EdgePay API Response Header has no relevant information, so you can bypass the header and go to the body:

```
Header:
Connection →keep-alive
Content-Encoding →gzip
Content-Type →application/json;charset=UTF-8
Date →Mon, 11 Jun 2018 18:43:10 GMT
Transfer-Encoding →chunked
Vary →Accept-Encoding
X-Application-Context →switch-gateway:443
```

JSON Body:

```
"result": "A",
"responseCode": "A0000",
"responseMessage": "Successful",
"merchantID": "6320340123456903",
"terminalID": "88800000282601",
"timestamp": "2018-07-18 20:40:07.389",
"currencyCode": "840",
"maskedAccountNumber": "476173******0119",
"cardExpirationDate": "0622",
"tokenID": "4480956803450469",
"customerNumber": "8000465765648"
```

More samples of the API can be found in the Appendix.

}

10 EDGEPAY FRAUD MANAGEMENT SERVICE

The EdgePay Fraud Management Service is an independent service that is enabled at the Merchant level. The system utilizes Static, Dynamic, and Machine Learning capabilities to identify and tag suspicious transactions as they occur.

While focused on Digital Fraud, the service also works for Card Present transactions. The Multi-Dimensional approach to Fraud management allows you to tailor your Fraud management services to meet your business needs without any IT work.

Our goal is to maximize revenue. This is achieved by squeezing out the bad guys while saying yes to the good guys, every time. Our approach does not remove you from the decision. Rather it allows you to set the rules, filters, and processes and update them as you need to while providing you the tools to look at those suspicious transactions and make informed decisions.

Within FMS, you set the rules. Along with the "Entities" which are facts you define to identify fraud, you set to either Decline or Review any transaction that is tagged by the fact. If you set it to Decline, the service will decline transaction even before we send out to the Card Brands. But, if you set to Review, then any transaction tagged with this fact will be displayed in the Review bin for you review and decision. NOTE: Review does not stop the payment but, you can easily reverse the transaction in this view if you decide not to deliver the product or service.

For integrated solutions we supply the Security Result from FMS in the Payment Response if you elect to use FMS. This can be used to denote Review and Decline transactions on your host system as well. Please refer to section 3.4.1 for Payment Response and the Security Result.

GET provides Security analysts to assist you in the initial setup of Fraud Management Services.

11 CERTIFICATION

11.1 TESTING AND CERTIFICATION INFORMATION

Certification Credentials

Contact Developer Support to get Certification Credentials

developersupport@gettrx.com

Test Card Numbers

Card Type	Card Number	Exp Date	CVV	Street AVS	Zip AVS
Visa	4012000098765439	12/20	999	8320	85284
Mastercard	5499740000000057	12/20	998	8320	85284
Mastercard 2 nd Bin	2223000048400011	12/25	998	8320	85284
American Express	3714496353920376	12/20	9997	8320	85284
Discover	3055155515160018	12/20	996	8320	85284
JCB	3530142019945859	1220	996	8320	85284

11.2 TEST TRANSASCTIONS

Once ready to certify please use the following test scripts to verify specific transaction behaviour's.

Input type	Amount	AVS	CVV	Result	Result Code
Sale	1.00			Approved	А
Sale	2.22			Decline	D
Sale	35.35			Partial Approval	А
Refund	5.55			Decline	D
Sale	7.77			Error	R
Sale	8.88			Call	С
Sale	1.11	11111		AVS Mismatch	А
Sale	6.66		111	CVV Mismatch	А

12 APPENDIX

12.1 SAMPLE TRANSACTIONS

Sale -Swiped Transaction

```
POST /payment HTTP/1.1
Host: api.edgepay-uat.com
Content-Type: application/ison
merchantKey: E3DFE3D0150EB516F4E351CE7FE5A2FB799B320BDC5D523B
externalReferenceID: 1234561527119337
transactionDate: 2018-05-23T02:00:00
 "captureToo":"Yes",
 "merchantID": "6320340123456900",
 "terminalID": "88800000282601",
 "paymentDataInput": "SWIPE",
 "amount":"11.10",
 "currencyCode": "840",
 "trackData":";4012000098765439=20121011796251900000?"
}
{
  "result": "A",
  "responseCode": "A0002",
  "responseMessage": "Partial Amount Approved",
  "merchantID": "6320340123456900",
  "terminalID": "88800000282601",
  "timestamp": "2018-05-23-23-48-12",
  "authCode": "TAS701",
  "processor": "TSYS",
  "amount": "11.10",
  "currencyCode": "840".
  "transactionID": "CS47745840597246312",
  "avsResponse": "Address verification was not requested.",
  "commercialCard": "n"
}
```

Sale - Manual Transaction

```
POST /payment HTTP/1.1
Host: api.edgepay-uat.com
Content-Type: application/json
merchantKey: E3DFE3D0150EB516F4E351CE7FE5A2FB799B320BDC5D523B
externalReferenceID: 1234561527119391
transactionDate: 2018-05-23T02:00:00

{
    "captureToo":"Yes",
    "merchantID":"6320340123456900",
    "terminalID":"88800000282601",
    "paymentDataInput":"Manualentry",
    "amount":"101.00",
```

```
"currencyCode":"840",
  "cardNumber":"4012000098765439",
  "cardExpirationDate":"1220",
  "billingZip": "85284"
}
  "result": "A",
  "responseCode": "A0000",
  "responseMessage": "Success",
  "merchantID": "6320340123456900",
  "terminalID": "88800000282601".
  "timestamp": "2018-05-23-21-40-46",
  "authCode": "TAS889",
  "processor": "TSYS",
  "amount": "101.00",
  "currencyCode": "840",
  "maskedAccount": "401200*****5439",
  "cardExpirationDate": "1220",
  "transactionID": "CS13730432886403704",
  "avsResponse": "Neither the street address or ZIP code match what is on file.",
  "commercialCard": "n"
}
```

Sale – Transaction with Recurring Installments (Total Amount)

```
POST /recurring/customer/add HTTP/1.1
Host: edgepayapi.com
Content-Type: application/json
merchantKey: F2D0B30DE03831236D51156E0170D6B576514FC2C86D94E0
externalReferenceID: 1234561570454900
transactionDate: 2019-10-04T00:00:01
{
       "captureToo":"Yes",
       "merchantID": "6320340123456900",
       "terminalID": "88800000282601",
       "paymentDataInput":"INTERNET",
       "billingAddress": "Address",
       "billingCity":"City",
       "billingState": "CA",
       "billingZip": "85284".
       "shippingAddress":"NewYork",
       "shippingCity":"NewYork",
       "shippingState":"AR",
       "shippingZip":"65401",
       "amount":"10.01",
       "currencyCode":"840",
        "cardNumber":"4716308261910750",
       "cardExpirationDate":"1122",
        "processor":"TSYS",
        "customerName":"Installment-092319",
       "customerNumber":"10042019",
       "phoneNumber": "9038000439",
       "eMailAddress":"james@gmail.com",
       "url":"http://www.edgepay.com",
```

```
"memberUsername":"Username1".
        "memberPassword": "Password1234",
        "affiliate":"12365ID",
        "makeRecurring":"Yes",
        "status":"A",
         "merchantField1": "Field1",
         "merchantField2": "Field2",
        "recurringPaymentRequest":
[
        "schedulePaymentType":"Installment",
        "totalAmount": "40.91",
        "frequency":"4",
        "paidIn":"4",
        "startDate": "2019-10-06",
        "description": "Installment 10042019",
        "emailReceipt":"Y"
  "result": "A",
  "responseCode": "A0000",
  "responseMessage": "Successful",
  "merchantID": "6320340123456900",
  "terminalID": "88800000282601",
  "timestamp": "2019-10-04 17:42:29.143",
  "maskedAccount": "401200*****5439",
  "cardExpirationDate": "1220",
  "amount": "10.01"
  "tokenID": "5424391763607600",
  "customerNumber": "10042019",
  "securityResult": "A",
  "securityMessage": "APPROVED",
  "processor": "TSYS",
  "authCode": "TAS625",
  "avsResponse": "Zip Match(Z): The nine character ZIP code submitted matches what is on
file.",
  "commercialCard": "y",
  "avsCode": "Z",
  "transactionId": "CS70565957796520677",
  "recurringIDs": [
     "9201691219991561"
  ],
}
```

Sale - Transaction with Recurring Installments (Recurring Amount)

```
POST /recurring/customer/add HTTP/1.1
Host: edgepayapi.com
Content-Type: application/json
merchantKey: F2D0B30DE03831236D51156E0170D6B576514FC2C86D94E0
externalReferenceID: 1234561570454900
transactionDate: 2019-10-04T00:00:01

{
    "captureToo":"Yes",
```

```
"merchantID": "6320340123456900",
        "terminalID": "88800000282601"
        "paymentDataInput":"INTERNET",
        "billingAddress":"Address",
        "billingCity":"City",
        "billingState":"CA",
        "billingZip": "85284",
        "shippingAddress":"NewYork",
        "shippingCity":"NewYork",
        "shippingState":"AR",
        "shippingZip": "65401",
        "amount": "10.00",
        "currencyCode": "840",
        "cardNumber": "411111111111111",
        "cardExpirationDate":"1122",
        "processor": "TSYS",
        "customerName":"Recurring Installment",
        "customerNumber": "903800043952",
        "phoneNumber": "9038000439",
        "eMailAddress":"test@gettrx.com",
        "url": "http://www.edgepay.com",
        "memberUsername":"Username1",
"memberPassword":"Password1234",
        "affiliate": "12365ID",
        "makeRecurring":"Yes",
        "status":"A",
        "recurringPaymentRequest":
        "schedulePaymentType":"Installment",
        "recurringAmount":"43.91",
        "frequency":"4",
        "paidIn":"4",
        "startDate": "2019-10-05",
        "description": "Recurring Installment",
        "emailReceipt":"Y"
{
          "result": "A",
          "responseCode": "A0000",
          "responseMessage": "Successful",
          "merchantID": "6320340123456900",
          "terminalID": "88800000282601",
          "timestamp": "2019-10-04 20:15:38.276",
          "maskedAccountNumber": "411111*****1111",
          "cardExpirationDate": "1122",
          "tokenID": "4619016931237921",
          "customerNumber": "903800043952",
          "securityResult": "A",
          "securityMessage": "APPROVED",
          "processor": "TSYS".
          "authCode": "TAS750",
          "avsResponse": "Zip Match(Z): The nine character ZIP code submitted matches
        what is on file.",
          "commercialCard": "y",
          "avsCode": "Z",
```

Sale – Transaction with Recurring Subscription (Recurring Amount)

```
POST /recurring/customer/add HTTP/1.1
Host: edgepayapi.com
Content-Type: application/json
merchantKey: F2D0B30DE03831236D51156E0170D6B576514FC2C86D94E0
externalReferenceID: 1234561570454900
transactionDate: 2019-10-04T00:00:01
{
        "captureToo":"Yes",
        "merchantID": "6320340123456900".
       "terminalID": "88800000282601",
       "paymentDataInput":"INTERNET",
        "billingAddress": "Address",
        "billingCity":"City",
        "billingState":"CA"
        "billingZip":"85284",
        "shippingAddress":"NewYork",
        "shippingCity":"NewYork",
        "shippingState":"AR"
        "shippingZip":"65401",
"amount":"13.03",
        "currencyCode":"840",
        "cardNumber": "5499740000000057",
        "cardExpirationDate":"1122",
        "processor":"TSYS",
        "customerName": "Recurring Subscription",
        "customerNumber": "903800043953",
        "phoneNumber": "9038000439",
        "eMailAddress": "wwatley@gettrx.com",
        "url": "http://www.edgepay.com",
        "memberUsername":"Username1".
        "memberPassword": "Password1234",
        "affiliate": "12365ID",
        "makeRecurring":"Yes",
        "status":"A",
        "recurringPaymentRequest":
        "schedulePaymentType":"Subscription",
        "recurringAmount":"43.91",
        "frequency":"4",
        "startDate": "2019-10-20",
        "description": "Recurring Subscription",
        "emailReceipt":"Y"
```

```
}
{
          "result": "A",
          "responseCode": "A0000",
          "responseMessage": "Successful",
          "merchantID": "6320340123456900",
          "terminalID": "88800000282601",
          "timestamp": "2019-10-04 20:19:54.03",
          "maskedAccountNumber": "549974*****0057",
          "cardExpirationDate": "1122",
          "tokenID": "4134804882045891".
          "customerNumber": "903800043953",
          "securityResult": "A",
          "securityMessage": "APPROVED",
          "processor": "TSYS"
          "authCode": "VTLMC1",
          "avsResponse": "Exact Match(Y): The five character ZIP code submitted matches
        what is on file.",
  "commercialCard": "y",
  "avsCode": "Y",
"transactionId": "CS91278938575504158",
  "recurringIDs": [
     "2359256122420744"
   .
"amount": "13.03"
}
```

Sale (Token) – Transaction with Recurring Installments (Recurring Amount)

```
POST /recurring/customer/add HTTP/1.1
Host: edgepayapi.com
Content-Type: application/json
merchantKey: F2D0B30DE03831236D51156E0170D6B576514FC2C86D94E0
externalReferenceID: 1234561570454900
transactionDate: 2019-10-04T00:00:01
{
        "captureToo":"Yes",
        "merchantID": "6320340123456900",
        "terminalID": "88800000282601",
        "paymentDataInput":"INTERNET",
        "billingAddress":"Addresstwo",
        "billingCity":"citytwo",
        "billingState":"CA",
        "billingZip": "85284",
        "shippingAddress": "city",
        "shippingCity":"NewYorktwo",
        "shippingState":"AR"
        "shippingZip":"65401",
        "amount":"11.99",
        "currencyCode":"840",
        "tokenID": "4619016931237921",
        "processor": "TSYS",
        "customerName": "sb five",
        "customerNumber": "903800043955",
```

```
"phoneNumber":"9038000439",
        "eMailAddress":"james@gmail.com",
        "url": "http://www.edgepaycom",
        "memberUsername":"Username1"
        "memberPassword":"Password1234",
        "affiliate":"12365ID",
        "makeRecurring":"Yes",
        "status":"A",
        "recurringPaymentRequest":
[
        "schedulePaymentType":"Installment",
        "recurringAmount":"11.12",
        "frequency":"M".
        "startDate":"2019-10-20",
        "paidIn":"3",
        "description": "Token-BillingPlan03",
        "emailReceipt":"Y"
}
{
          "result": "A",
          "responseCode": "A0000",
          "responseMessage": "Success",
          "merchantID": "6320340123456900",
          "terminalID": "88800000282601",
          "timestamp": "2019-10-04-13-40-20",
          "securityResult": "A",
          "securityMessage": "APPROVED",
          "authCode": "TAS009",
          "processor": "TSYS",
          "amount": "11.99",
          "currencyCode": "840",
          "maskedAccount": "411111******1111".
          "cardExpirationDate": "1122",
          "tokenID": "4619016931237921",
          "customerNumber": "903800043955",
          "transactionID": "CS11264563162462083",
          "avsResponse": "Zip Match(Z): The nine character ZIP code submitted matches
        what is on file.",
          "commercialCard": "n",
          "avsCode": "Z"
}
```

Sale (Token) – Transaction with Recurring Installments (Total Amount)

```
POST /recurring/customer/add HTTP/1.1
Host: edgepayapi.com
Content-Type: application/json
merchantKey: F2D0B30DE03831236D51156E0170D6B576514FC2C86D94E0
externalReferenceID: 1234561570454900
transactionDate: 2019-10-04T00:00:01

{
          "captureToo":"Yes",
          "merchantID":"6320340123456900",
          "terminalID":"88800000282601",
          "paymentDataInput":"INTERNET",
```

```
"billingAddress": "Addresstwo",
        "billingCity":"citytwo",
        "billingState": "CA",
        "billingZip": "85284",
        "shippingAddress":"city",
        "shippingCity":"NewYorktwo",
        "shippingState":"AR",
        "shippingZip":"65401",
        "amount":"11.99",
        "currencyCode": "840",
        "tokenID": "5970803989190028",
        "processor": "TSYS".
        "customerName": "SB four",
        "customerNumber": "903800043".
        "phoneNumber": "9038000439",
        "eMailAddress": "james@gmail.com",
        "url": "http://www.edgepay.com",
        "memberUsername":"Username1"
        "memberPassword":"Password1234",
        "affiliate": "12365ID",
        "makeRecurring":"Yes",
        "status":"A",
        "recurringPaymentRequest":
{
        "schedulePaymentType":"Installment",
        "totalAmount":"11.12",
        "frequency":"M",
        "startDate": "2019-10-05",
        "paidIn":"3",
        "description": "Token-BillingPlan03",
        "emailReceipt":"Y"
]
}
{
          "result": "A",
          "responseCode": "A0000",
          "responseMessage": "Successful",
          "merchantID": "6320340123456900",
          "terminaIID": "88800000282601",
          "timestamp": "2019-10-04 20:58:52.39",
          "maskedAccountNumber": "4111111*****1111",
          "cardExpirationDate": "0621",
          "tokenID": "5970803989190028",
          "customerNumber": "903800043",
          "securityResult": "A",
          "securityMessage": "APPROVED",
          "processor": "TSYS",
          "authCode": "TAS182",
          "avsResponse": "Zip Match(Z): The nine character ZIP code submitted matches
        what is on file.",
          "commercialCard": "y",
          "avsCode": "Z",
          "transactionId": "CS62157876691734660",
          "recurringIDs": [
             "2906167474020226"
          ],
```

```
"amount": "11.99"
}
```

Sale (Token) – Transaction with Recurring Subscription (Recurring Amount)

```
POST /recurring/customer/add HTTP/1.1
Host: edgepayapi.com
Content-Type: application/json
merchantKey: F2D0B30DE03831236D51156E0170D6B576514FC2C86D94E0
externalReferenceID: 1234561570454900
transactionDate: 2019-10-04T00:00:01
        "captureToo":"Yes",
        "merchantID": "888000002826",
        "terminalID": "88800000282601"
        "paymentDataInput":"INTERNET",
        "billingAddress":"Addresstwo",
        "billingCity":"citytwo",
        "billingState": "CA",
        "billingZip":"85284",
        "shippingAddress":"city",
        "shippingCity":"NewYorktwo",
        "shippingState":"AR",
        "shippingZip":"65401",
        "amount":"11.99",
        "currencyCode": "840",
        "tokenID": "5970803989190028",
        "processor": "TSYS",
        "customerName": "SB six",
        "customerNumber": "903800043956",
        "phoneNumber": "9038000439",
        "eMailAddress":"james@gmail.com",
        "url": "http://www.edgepaycom",
        "memberUsername":"Username1".
        "memberPassword": "Password1234",
        "affiliate":"12365ID",
        "makeRecurring": "Yes",
        "status":"A",
        "recurringPaymentRequest":
        "schedulePaymentType":"Subscription",
        "recurringAmount":"11.12",
        "frequency":"M",
        "startDate": "2019-10-20",
        "description": "Token-BillingPlan03",
        "emailReceipt":"Y"
  "result": "A".
 14
```

```
"responseCode": "A0000",
  "responseMessage": "Success",
  "merchantID": "888000002826",
"terminalID": "88800000282601",
  "timestamp": "2019-10-04-14-03-39",
  "securityResult": "A",
  "securityMessage": "APPROVED",
  "authCode": "TAS212",
  "processor": "TSYS",
  "amount": "11.99",
  "currencyCode": "840",
  "maskedAccount": "411111*****1111",
  "cardExpirationDate": "0621".
  "tokenID": "5970803989190028".
  "customerNumber": "903800043956".
  "transactionID": "CS63389217481298380",
  "avsResponse": "Zip Match(Z): The nine character ZIP code submitted matches what is on
file.",
  "commercialCard": "n",
  "avsCode": "Z"
Refund Transaction
POST /refund HTTP/1.1
Host: api.edgepay-uat.com
Content-Type: application/json
merchantKey: E3DFE3D0150EB516F4E351CE7FE5A2FB799B320BDC5D523B
externalReferenceID: 1234561527119566
transactionDate: 2018-05-23T02:00:00
 "merchantID": "6320340123456900",
 "terminalID": "88800000282601",
 "transactionID": "CS75302302660447689"
}
  "result": "A",
```

Refund Any Card Manual Transaction

"transactionID": "CS11876175370499715", "origTransactionID": "CS50463158851818869"

POST /refund HTTP/1.1 Host: api.edgepay-uat.com Content-Type: application/json

"responseCode": "A0000", "responseMessage": "Success", "merchantID": "6320340123456900", "terminaIID": "88800000282601", "timestamp": "2018-05-23-23-53-45",

"processor": "TSYS",

merchantKey: E3DFE3D0150EB516F4E351CE7FE5A2FB799B320BDC5D523B

externalReferenceID: 1234561532110897 transactionDate: 2018-07-20T02:00:00

}

```
{
    "merchantID":"6320340123456900",
    "terminalID":"88800000282601",
    "amount":"2.11",
    "cardNumber":"4012000098765439",
    "cardExpirationDate":"1220",
    "paymentDataInput":"MANUALENTRY"
}

{
    "result": "A",
    "responseCode": "A0000",
    "responseMessage": "Success",
    "merchantID": "6320340123456900",
    "terminalID": "88800000282601",
    "timestamp": "2018-07-20-18-01-17",
    "processor": "TSYS",
    "transactionID": "CS70910267410995714"
}
```

Refund Any Card Swipe Transaction

```
POST /refund HTTP/1.1
Host: api.edgepay-uat.com
Content-Type: application/json
merchantKey: E3DFE3D0150EB516F4E351CE7FE5A2FB799B320BDC5D523B
externalReferenceID: 1234561532111002
transactionDate: 2018-07-20T02:00:00
  "merchantID": "6320340123456900",
  "terminalID": "88800000282601",
  "paymentDataInput": "SWIPE",
  "amount":"3.00",
  "trackData":";4012000098765439=20121011796251900000?"
}
  "result": "A",
  "responseCode": "A0000",
  "responseMessage": "Success",
  "merchantID": "6320340123456900",
  "terminalID": "88800000282601",
"timestamp": "2018-07-20-18-08-59",
"processor": "TSYS",
  "transactionID": "CS79546938710933612"
}
```

Refund Any Card (Token) Manual Transaction

POST /refund HTTP/1.1 Host: api.edgepay-uat.com Content-Type: application/json

merchantKey: E3DFE3D0150EB516F4E351CE7FE5A2FB799B320BDC5D523B

externalReferenceID: 1234561532110897 transactionDate: 2018-07-20T02:00:00

```
"merchantID": "6320340123456900",
  "terminalID": "88800000282601",
 "amount":"2.11",
"tokenID": "4784294325501111",
  "paymentDataInput":"MANUALENTRY"
}
  "result": "A",
  "responseCode": "A0000",
  "responseMessage": "Success",
  "merchantID": "6320340123456900",
  "terminalID": "88800000282601".
  "timestamp": "2018-07-20-18-01-17",
  "processor": "TSYS",
  "transactionID": "CS70910267410995714"
}
Token Transaction
POST /token HTTP/1.1
Host: api.edgepay-uat.com
Content-Type: application/json
merchantKey: E3DFE3D0150EB516F4E351CE7FE5A2FB799B320BDC5D523B
externalReferenceID: 1234561527119506
"merchantID": "6320340123456900",
"terminalID": "88800000282601",
"cardNumber": "6011000993026909",
"cardExpirationDate":"1221"
}
```

Recurring – Add Customer and Contract Token

"result": "A",

}

"responseCode": "EP0081",
"responseMessage": "Successful",
"merchantID": "6320340123456900",
"tokenID": "4460741062478699",
"cardExpirationDate": "1221"

```
POST /recurring/customer/add HTTP/1.1
Host: api.edgepay-uat.com
Content-Type: application/json
merchantKey: 67168CA2B96231F4BFF26E38EFFBA2FDFE4001DFCBABA8EF
externalReferenceID: 1234561532111259
transactionDate: 2018-07-20T02:00:00

{
    "merchantID":"6320340123456903",
    "terminalID":"88800000282601",
    "actionCode":"A",
    "tokenID": "4784294325501111",

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```

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```
"customerNumber": "8000465765647",
"customerName":"Jane Morgan",
"billingAddress":"25, Spilburg lane",
"billingCity":"California",
"billingState":"AL",
"billingZip":"56431",
"shippingAddress":"Miller street",
"shippingCity":"New York",
"shippingState":"AR",
"shippingZip":"65401",
"phoneNumber": "897654546654",
.
"eMailAddress":"jan@gmail.com",
"paymentDataInput":"Mail",
"customerCurrency":"840",
"contractNbr":[
    "status":"A",
    "billingPlan":"Gym Plan",
    "startDate": "2018-09-18",
    "endDate":"2019-07-18",
        "eMailReceipt":"Y"
    "eMailSchedulePayment":"N",
    "eMailContractEnd":"Y"
    "eMailContractCancel":"Y",
    "taxable":"Y",
    "taxRate": "2.0",
    "contractDescription": "Monthly Subscription"
 },
"result": "A",
"responseCode": "A0000",
"responseMessage": "Successful",
"merchantID": "6320340123456903",
"terminalID": "88800000282601",
"timestamp": "2018-07-20 18:30:59.59",
"currencyCode": "840",
"maskedAccountNumber": "476173*****0119",
"cardExpirationDate": "1220",
"tokenID": "4784294325501111"
"customerNumber": "8000465765649"
```

Recurring - Customer and Contract Update Card

```
POST /recurring/customer/add HTTP/1.1
Host: api.edgepay-uat.com
Content-Type: application/json
merchantKey: 67168CA2B96231F4BFF26E38EFFBA2FDFE4001DFCBABA8EF
externalReferenceID: 1234561532111929
transactionDate: 2018-07-20T02:00:00

{
    "merchantID":"6320340123456903",
    "terminalID":"88800000282601",
    "actionCode":"C",
    "cardNumber":"4761739001010119",
```

}

```
"cardExpirationDate": "0626",
"customerNumber":"8000465765646",
"customerName":"James Morgan",
"billingAddress":"28, Spilburg lane",
"billingCity":"California",
"billingState":"AL",
"billingZip": "56431",
"shippingAddress":"Miller street",
"shippingCity":"New York",
"shippingState":"AR",
"shippingZip":"65401"
"phoneNumber": "897654546654",
"eMailAddress":"jamesm@gmail.com",
"pavmentDataInput":"Mail".
"customerCurrency":"840",
"contractNbr":[
    "contractNumber": "482761723871089",
    "status":"S",
    "billingPlan":"Personal Trainer",
    "startDate":"2018-07-20",
"endDate":"2019-07-18",
    "eMailReceipt":"Y",
    "eMailSchedulePayment":"N",
    "eMailContractEnd":"Y",
    "eMailContractCancel":"Y",
    "taxable":"Y",
    "taxRate":"4.0",
    "contractDescription":"Trainer Fee"
  }
]
 "result": "A".
 "responseCode": "A0000",
 "responseMessage": "Successful",
 "merchantID": "6320340123456903",
 "terminaIID": "88800000282601",
 "timestamp": "2018-07-20 18:38:01.023",
 "currencyCode": "840",
 "maskedAccountNumber": "476173******0119",
 "cardExpirationDate": "0626",
 "tokenID": "4480956803450469",
 "customerNumber": "8000465765646"
```

{

Recurring - Customer and Contract Update -Token

```
POST /recurring/customer/add HTTP/1.1
Host: api.edgepay-uat.com
Content-Type: application/json
merchantKey: 67168CA2B96231F4BFF26E38EFFBA2FDFE4001DFCBABA8EF
externalReferenceID: 1234561532112415
transactionDate: 2018-07-20T02:00:00

{
    "merchantID":"6320340123456903",

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```

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```
"terminalID": "88800000282601",
"actionCode": "C",
"tokenID": "4784294325501111",
"customerNumber": "8000465765649",
"customerName":"Bill Jones",
"billingAddress": "25, Iceburg lane",
"billingCity":"California",
"billingState": "CA",
"billingZip":"93035",
"shippingAddress": "Miller street",
"shippingCity":"New York",
"shippingState":"AR",
"shippingZip":"65401".
"phoneNumber": "897654546654".
"eMailAddress":"jan@gmail.com",
"paymentDataInput":"Mail",
"customerCurrency":"840",
"contractNbr":[
    "contractNumber": "750861822875329",
    "status":"A",
    "billingPlan": "Personal Trainer",
    "startDate":"2018-07-20",
"endDate":"2019-07-18",
    "eMailReceipt":"Y",
    "eMailSchedulePayment":"N",
    "eMailContractEnd":"Y",
    "eMailContractCancel":"Y".
    "taxable":"Y",
    "taxRate":"4.0",
    "contractDescription":"Trainer Fee"
 }
]
 "result": "A",
 "responseCode": "A0000",
"responseMessage": "Successful", "merchantID": "6320340123456903",
 "terminalID": "88800000282601",
 "timestamp": "2018-07-20 18:46:05.07",
 "currencyCode": "840",
 "maskedAccountNumber": "476173******0119",
 "cardExpirationDate": "1220",
 "tokenID": "4784294325501111".
 "customerNumber": "8000465765649"
```

PayFac Sale -Swiped Transaction

POST /payment HTTP/1.1 Host: api.edgepay-uat.com Content-Type: application/json

merchantKey: E3DFE3D0150EB516F4E351CE7FE5A2FB799B320BDC5D523B

externalReferenceID: 1234561527119337 transactionDate: 2018-05-23T02:00:00

}

```
"captureToo":"Yes",
 "merchantID": "6320340123456900",
 "terminalID": "88800000282601",
 "paymentDataInput": "SWIPE",
 "amount":"11.10",
 "currencyCode": "840",
 "trackData":":4012000098765439=20121011796251900000?",
 "payFac":"Yes",
 "sID": "222212345678",
 "acctSplits":[
 {"accountID": 1, "amount": 1.00},
 {"accountID": 1, "amount": 1.00}
}
  "result": "A",
  "responseCode": "A0002",
  "responseMessage": "Partial Amount Approved",
  "merchantID": "6320340123456900",
  "terminalID": "88800000282601",
  "timestamp": "2018-05-23-23-48-12",
  "authCode": "TAS701",
  "processor": "TSYS",
  "amount": "11.10",
  "currencyCode": "840",
  "transactionID": "CS47745840597246312",
  "avsResponse": "Address verification was not requested.",
  "commercialCard": "n"
}
PayFac Sale – Manual Transaction
POST /payment HTTP/1.1
Host: api.edgepay-uat.com
Content-Type: application/json
merchantKey: E3DFE3D0150EB516F4E351CE7FE5A2FB799B320BDC5D523B
externalReferenceID: 1234561527119391
transactionDate: 2018-05-23T02:00:00
  "captureToo":"Yes",
 "merchantID": "6320340123456900",
 "terminalID": "88800000282601",
 "paymentDataInput":"Manualentry",
 "amount":"101.00",
"currencyCode":"840",
  "cardNumber":"4012000098765439",
  "cardExpirationDate":"1220",
 "billingZip": "85284",
 "payFac":"Yes",
  "sID": "222212345678",
 21
```

```
"acctSplits":[
         {"accountID": 1, "amount": 1.00},
         {"accountID": 1, "amount": 1.00}
       }
          "result": "A",
          "responseCode": "A0000",
          "responseMessage": "Success",
          "merchantID": "6320340123456900",
          "terminalID": "88800000282601".
          "timestamp": "2018-05-23-21-40-46",
          "authCode": "TAS889",
          "processor": "TSYS",
          "amount": "101.00",
          "currencyCode": "840",
          "maskedAccount": "401200*****5439",
          "cardExpirationDate": "1220",
          "transactionID": "CS13730432886403704",
          "avsResponse": "Neither the street address or ZIP code match what is on file.",
          "commercialCard": "n"
Auth Only Request Packet (PayFac)
        POST /payment HTTP/1.1
        Host: api.edgepay-uat.com
        Content-Type: application/json
        merchantKey: E3DFE3D0150EB516F4E351CE7FE5A2FB799B320BDC5D523B
        externalReferenceID: 1234561527119391
        transactionDate: 2018-05-23T02:00:00
          "merchantID": "88000002826",
          "terminalID": "88800000282601"
          "paymentDataInput":"Manualentry",
          "amount":"2.05",
"currencyCode":"840",
          "cardNumber": "371449635392376",
          "cardExpirationDate": "0919",
          "cvv2":"9997",
          "billingAddress": "8320",
         "billingCity": "Milpitas",
         "billingState": "CA",
         "billingZip": "85284-9999",
          "token":"yes"
         "payFac":"Yes",
                 "sID": "2222".
                 "acctSplits":[
                 {"accountID": 1, "amount": 1.00},
                  {"accountID": 1, "amount": 1.00}
               1
        }
Auth Only Response packet
          "result": "A",
```

```
"responseCode": "A0000",
          "responseMessage": "Success",
          "merchantID": "88000002826",
          "terminalID": "88800000282601",
          "sID": "2222",
"timestamp": "2019-03-20-08-44-28",
          "securityResult": "A",
          "securityMessage": "APPROVED",
          "authCode": "AXS631",
          "processor": "TSYS",
          "amount": "2.05",
          "currencyCode": "840",
          "maskedAccount": "371449****2376",
          "cardExpirationDate": "0919".
          "tokenID": "4122589763319236",
          "transactionID": "CS42347608157031738",
          "avsResponse": "Zip Match(Z): The nine character ZIP code submitted matches what is on
       file.",
          "cvvResponse": "CVV2 verification successful",
          "avsCode": "Z"
Auth Only Request Packet for SubMerchant Direct
       POST /payment HTTP/1.1
       Host: api.edgepay-uat.com
       Content-Type: application/json
       merchantKey: E3DFE3D0150EB516F4E351CE7FE5A2FB799B320BDC5D523B
       externalReferenceID: 1234561527119391
       transactionDate: 2018-05-23T02:00:00
```

```
"merchantID": "2222",
           "terminalID": "88800000282601",
           "paymentDataInput":"Manualentry",
           "amount": "2.05",
           "currencyCode":"840",
           "cardNumber": "371449635392376",
           "cardExpirationDate": "0919",
           "cvv2":"9997",
           "billingAddress": "8320",
           "billingCity": "Milpitas",
           "billingState": "CA",
           "billingZip": "85284-9999",
          "token":"yes"
"payFac":"Yes",
                   "sID": "2222",
                   "acctSplits":[
                    {"accountID": 1, "amount": 1.00},
{"accountID": 1, "amount": 1.00}
                 1
         }
Auth Only Response packet
            "result": "A",
            "responseCode": "A0000",
            "responseMessage": "Success",
```

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"merchantID": "2222",

"merchantID": "2222",
"terminalID": "88800000282601",
"sID": "2222",
"timestamp": "2019-03-20-08-44-28",
"securityResult": "A",
"securityMessage": "APPROVED",
"authCode": "AXS631",
"processor": "TSYS", . "amount": "2.05",