

SureGate API Documentation



Implementation Guide

[SOAP Implementation](#)
[Name-Value Pairs Implementation](#)
[Useful Tips](#)

Transaction Processing Web Services

[ProcessCreditCard](#)
[ProcessDebitCard](#)
[ProcessCheck](#)
[ProcessEBTCard](#)
[ProcessGiftCard](#)
[ProcessSignature](#)
[ProcessCheck \(Recurring Billing\)](#)
[ProcessCreditCard \(Recurring Billing\)](#)
[Custom Fields Documentation](#)

Recurring Billing Web Services

[ManageCustomer](#)
[ManageCreditCardInfo](#)
[ManageCheckInfo](#)
[ManageContract](#)
[ManageContractAddDaysToNextBillDt](#)

ReportingWebServices

[AddCustomField](#)
[GetCardTrx](#)
[GetCardTrxSummary](#)
[GetCheckTrx](#)
[GetOpenBatchSummary](#)

Response Field Definitions

[Reporting Services Response](#)
[Processing Service Responses](#)
[Result Response Field Definitions](#)
[ExtData Field Definitions](#)
[AVS Response Field Definitions](#)
[CV Response Field Definitions](#)

Support/Downloads

[Technical Support](#)

SureGate API Documentation



[Download PHP Sample code](#)

[Download .NET Sample Code](#)

SureGate API Documentation



SOAP Implementation

[\[top\]](#)

The SOAP interface is most easily accessed through a .NET application. If you are developing in .Net, simply add the URL of the web service – or of the specific service method – you are attempting to consume as a service reference in Visual Studio. Once you have added the service reference, Visual Studio will handle the bulk of the heavy lifting and will create a class for the web service and/or method you are attempting to access which will build the SOAP object for you and return a response in the form of an object.

It is important to note that we use ssl accelerators in our infrastructure. As such, the endpoint URL's included in the WSDL file generated by the web reference to the service will be set to 'http://' by default. Simply change them to 'https://' in whatever IDE you are working in, and you should have no trouble communicating with the web service.

If you are using a program language other than VB.NET or C#, and are not familiar with interacting with .NET web services, it is recommended that you integrate using HTTPS as it is far less complicated than building SOAP objects outside of an IDE, and will save a tremendous amount of time and headache. If you are familiar and comfortable using SOAP to consume .NET web services, navigate to the URL for each web service method you plan to consume for additional details regarding the XML SOAP schema.

Most integrators will only need to concern themselves with the [ProcessCreditCard](#) web service. However, if additional functionality is required, our web services have been labeled intuitively, and the functionality exposed in each service is implied in the title.

SureGate API Documentation



Name-Value Pairs Implementation

[\[top\]](#)

The Name-Value Pairs implementation relies on the .NET framework's built in HTTP to SOAP translation layer. As a result, there are a few idiosyncrasies that an integrator must be aware of when implementing using HTTPS.

1. The .NET framework is taking the HTTPS request and building a SOAP object using the fields that it receives.
2. As a result, regardless of whether or not a field's *VALUE* is required, the **field name must be sent along with the request.**
3. Although this may seem counter intuitive, the .NET web service will simply build the SOAP object using only the fields that are passed to it.
4. If a field name is not included in the request, the SOAP object will be built without that parameter, thus resulting in an improperly formed SOAP object that will be rejected by the web service.
5. To avoid this, each field name must be sent even if you are not passing a value to the service. You must send the field **EVEN** if the API indicates that the field is not required, but send the field with a 'NULL' value. Eg; "CustomerName="
6. Remember, the request **MUST** include all field names, but when deciding whether to send a value in a specific field you can rely on the API to indicate whether a specific field requires a value in order to return a valid result

When calling a service using HTTPS, you must also use a slightly different URL. This URL is displayed for each web service in the API under the heading 'Service Location'. Please make sure that when implementing using Name-Value Pairs over HTTPS that you are sending the request to the URL labeled 'For standard HTTPS connections'.

For additional detail regarding HTTPS GET or POST format, navigate to the service url labeled 'For SOAP connections and scroll down to view properly formed GET and POST requests for each service. Additionally, in the sample code section of this API, review both the PHP and ASP classic examples, as they have a good example of a properly formed HTTPS request.

Most integrators will only need to concern themselves with the [ProcessCreditCard](#) web service. However, if additional functionality is required, our web services have been labeled intuitively, and the functionality exposed in each service is implied in the title.

SureGate API Documentation



Useful Tips

[\[top\]](#)

The API documentation is quite comprehensive, however we have a few items to pay special attention as it will reduce the time to integrate into the API solution.

Parameters

This applies to all functions, **you MUST pass ALL parameters in each request**. Even if the parameter does not apply to what you are doing (example: Passing a credit card number when already sending a transaction id). This will save you considerable debugging and triaging problems. Parameter names are *NOT CASE SENSITIVE*.

Track1/Track2 Data

When submitting Track1 or Track2 data to the SureGate gateway there is a very important item to note. You must parse out the CREDIT CARD and EXPIRE DATE from the track data. The credit card and expire date parameters you will be sending with the request data.

Example: (Before)

```
$strTrack2 = ";5454545454545454=14151015432112345678?";
```

Example (After)

```
$strTrack2 = ";=1015432112345678?";
```

PNRef

Certain functions such as Return, Void etc require a transaction Id of a previously approved transaction. The PNRef parameter you send to the gateway MUST contain the transaction id of the approved transaction.

Permissions/Live/Test account

Make sure your account is in TEST mode when you are integrating your account (Refer to [SureGate Customer service](#) info at the end of this document). The userid/pwd combination is case sensitive and make sure no leading/trailing spaces.

Once you are satisfied that you are properly integrated into the gateway, contact [SureGate customer service](#) to enable your account in LIVE mode.

404 Errors

If you are following the API documentation and/or using the code samples and are getting a 404 error code this could mean the following;

- You are NOT passing ALL required parameters. Even if a parameter does not apply and it is NULL, Please ensure you specify it (e.g. ¶meter=value or ¶meter=null)
- You are passing improper login credentials or your account is not properly configured. If your account is not configured, please contact support for assistance.

SureGate API Documentation



- You specified an incorrect secure URL to the Suregate gateway. Please double check it matches that specified in the API

SureGate API Documentation



ProcessCreditCard

[\[top\]](#)

Service Location:

For SOAP connections:

`https://secure.suregate.net/ws/transact.asmx/?op=ProcessCreditCard`

For standard HTTPS connections:

`https://secure.suregate.net/ws/transact.asmx/ProcessCreditCard?`

Description:

This web service is used whenever a transaction is completed via customer credit card.

The transaction types supported by this web service include:

- **Sale** - make a purchase using a credit card
- **Auth** – authorize the amount on a credit card
- **Return** – credits the card holder's account
- **Void** – undo an unsettled transaction
- **Force** – force an Auth transaction in to the current batch (PostAuth) or place a transaction not processed through the payment server into the current batch (ForceAuth)
- **RepeatSale** – perform a recurring billing or installment payment transaction

Processors supporting the *restaurant or 'retail tip' adjustment function* only:

- **Adjustment** – used to modify an existing tip amount for an original sale

Terminal-based processors only:

- **Capture** – settle a single transaction in the current batch

Terminal-based processors and host-based processors supporting the batch release feature only:

- **CaptureAll** – settle all transactions in the current batch

Global, TSYS, and First Data North only:

- **Reversal** – perform a manual full reversal on a credit card or repeat sale within 24 hours of the original transaction

Developer Notes:

Invalid Characters: Some parameters and XML tags contain data that will automatically remove invalid characters from the user-entered data. These parameters and tags include:

- MagData
- NameOnCard
- InvNum
- Zip
- Street
- ExtData: <CustCode>
- Extdata: <RegisterNum>



SureGate API Documentation

- ExtData: <City>
- ExtData: <BillToState>
- ExtData: <PONum>

Reversal Transactions: Reversal is only supported for payment processors: TSYS, Global and First Data North (CES).

- *For TSYS:* Supported for Visa and MasterCard transactions made within the direct marketing and ecommerce industries. Reversals must be processed within 24 hours of the original credit card transaction.
- *For First Data North:* Supported industries are retail and restaurant. Reversals must be processed within 24 hours of the original credit card transaction.
- *For Global:* Supported for all credit card issuers for transactions made within all industries. Reversals must be processed within the open batch time period. Completed reversals will act as a void host.

Input Parameters:

O = Optional, R = Required, R* = Required except in Capture and CaptureAll transactions, R# = Required except for CaptureAll transactions, R1 = Required on Force and Capture transactions, R\$ = Required on all swiped card transactions

Parameter Name	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have an appropriate level of access within the system in order to utilize the web service.
Password	R	Password associated with the user name provided.
TransType	R	Identifies the type of credit card transaction being made. Valid values are: <ul style="list-style-type: none">• Sale - make a purchase using a credit card• Auth – authorize the amount on a credit card• Return – credits the card holder’s account• Void – undo an unsettled transaction• Force – force an Auth transaction in to the current batch (PostAuth) or place a transaction not processed through the payment server into the current batch (ForceAuth). Note: When using this transaction type for a ForceAuth, you must include an AuthCode under the ExtData parameter.• RepeatSale – perform a recurring billing or installment payment transaction Processors supporting the <i>restaurant adjustment function</i> only: <ul style="list-style-type: none">• Adjustment – used to modify an existing tip amount for an original sale To call the service

SureGate API Documentation

		<p><i>Terminal-based processors only:</i></p> <ul style="list-style-type: none"> • Capture – settle a single transaction in the current batch <p><i>Terminal-based processors and host-based processors supporting batch release feature only:</i></p> <ul style="list-style-type: none"> • CaptureAll – settle all transactions in the current batch • Reversal – perform a manual full reversal on a credit card or repeat sale within 24 hours of the original transaction. See ‘Developer Notes’ for additional details on support for reversals.
CardNum	R\$	Credit card number used to uniquely identify the card owner’s account.
ExpDate	R\$	Credit card date of expiration in MMY format.
MagData	R#	<p>Track data encoded in the magnetic stripe of a credit card. The data will follow the following format:</p> <p style="text-align: center;">%B514961222222229^FDCS/TEST CHECK CARD^12041011234567440?;514961222222229=12041011234567440?</p> <p>This parameter must contain the full magnetic read in order to be classified as a ‘card present’ transaction</p> <p>Note: This input is <u>required</u> for processing swiped/card present transactions. Please ensure you have parsed out the Card Number and the Expire date from the Track data (Refer to sample in useful tips)</p>
NameOnCard	R	<p>Card owner’s name as it appears on the card. See ‘Developer Notes’ for invalid character processing.</p> <p>Note: This parameter may be <u>required</u> depending on the merchant’s processor setup.</p>
Amount	R\$	Total transaction amount in DDDD.CC format.
InvNum	R	The invoice ID is assigned by the merchant. This identifier can be used to locate a specific transaction or multiple transactions grouped under a single invoice. See ‘Developer Notes’ for invalid character processing.
PNRef	R*	Unique payment reference number used to identify a single transaction within the system. The payment reference number (PNRef) is assigned by the payment server at the time the transaction is created. You should save this identifier in your system as it is important for other functions (Void, Return etc)
Zip	R	<p>Card owner’s billing address five-digit postal/zip code. See ‘Developer Notes’ for invalid character processing.</p> <p>Note: This parameter may be <u>required</u> depending on the merchant’s setup.</p>



SureGate API Documentation

Street	R	<p>Card owner's billing address street name and number. See 'Developer Notes' for invalid character processing.</p> <p>Note: This parameter may be <u>required</u> depending on the merchant's setup.</p>
CVNum	R	<p>Card verification number.</p> <p>Note: This parameter may be <u>required</u> depending on the merchant's setup.</p>
ExtData	R	<p>The ExtData parameter allows you to pass additional information to the web service that is not covered under the input parameters. ExtData values need not be placed in any particular order; however, they must be properly formatted using XML tags.</p> <p>The following information may be added via the ExtData parameter:</p> <p>Authorization Code: (required when TransType = Force) Original authorization/approval code. Valid format is:</p> <ul style="list-style-type: none">• <code><AuthCode>AuthorizationCode</AuthCode></code> where <i>Authorization Code</i> is the original authorization or approval code. <p>Customer Code: (optional) Customer or purchase order (PO) number used with Level II information for <i>Global Payments only</i> (if using another processor that supports Level II, use the PO Number to pass this information instead). See 'Developer Notes' for invalid character processing. Valid format is:</p> <ul style="list-style-type: none">• <code><CustCode>CustomerCode</CustCode></code> where <i>Customer Code</i> is the number assigned to identify the customer or the PO number. <p>Convenience Amount: (optional) Allows the merchant to add a flat fee to the total transaction to recoup the costs of offering the credit card transaction convenience. This function may be used by utility companies, government agencies, and schools. Valid format is:</p> <ul style="list-style-type: none">• <code><ConvenienceAmt>Amount</ConvenienceAmt></code> where <i>Amount</i> is the value to be added to the total transaction in DDDD.CC format. <p>Tip Amount: (optional) Allows the customer to add a dollar amount to the total transaction for the purpose of tipping. Valid format is:</p> <ul style="list-style-type: none">• <code><TipAmt>Amount</TipAmt></code> where <i>Amount</i> is the value to be added to the total transaction in DDDD.CC format. <p>Tax Amount: (optional) Allows the merchant to add a dollar amount to the total transaction to cover sales tax. Valid format is:</p> <ul style="list-style-type: none">• <code><TaxAmt>Amount</TaxAmt></code> where <i>Amount</i> is the value to be added to the total transaction in DDDD.CC format. <p>Sequence Number: (optional) Identifies the payment order with a repeat sale or installment transaction. For example, payment <u>1</u> of 4. Valid format is:</p> <ul style="list-style-type: none">• <code><SequenceNum>SequenceNum</SequenceNum></code> where <i>SequenceNum</i> is any positive integer less than or equal to the

SureGate API Documentation

		<p><i>SequenceCount</i>.</p> <p>Sequence Count: (optional) Identifies the total number of charges that will be made for a repeat sale or installment transaction. For example, 4 payments must be made to complete the payment. Valid format is:</p> <ul style="list-style-type: none"> • <code><SequenceCount>SequenceCount</SequenceCount></code> where <i>SequenceCount</i> is any positive integer greater than or equal to the <i>SequenceNum</i>. <p>Server ID: (optional) Unique server identification number. See 'Developer Notes' for invalid character processing. Valid format is:</p> <ul style="list-style-type: none"> • <code><ServerID>ServerID</ServerID></code> where <i>ServerID</i> uniquely identifies the payment server used. <p>Time out: (optional) Processor time out value in seconds. The default value for the parameter is 30 seconds for a transaction and 300 seconds for a settlement transaction. Valid format is:</p> <ul style="list-style-type: none"> • <code><TimeOut>TimeOut</TimeOut></code> where <i>TimeOut</i> is the processor time out value in seconds. <p>Training Mode: (optional) This is an indicator that specifies whether transactions will be processed for local loop back testing or treated normally. Valid formats are:</p> <ul style="list-style-type: none"> • <code><TrainingMode>T</TrainingMode></code> where <i>T</i> (true) indicates that training mode is active and transactions are processed for local loop back testing. • <code><TrainingMode>F</TrainingMode></code> where <i>F</i> (false) indicates that training mode is inactive and transactions should be treated normally. <p>Transaction ID: (optional) Merchant-assigned numerical string passed along with an original transaction that can be used for identification and voids. Valid format is:</p> <ul style="list-style-type: none"> • <code><TransactionID>TransactionIdentifierValue</TransactionID></code> where <i>TransactionIdentifierValue</i> is a numerical string. <p>Target: (optional) Identifies the target transaction ID for the original transaction you wish to void without the use of a PRef. Valid format is:</p> <ul style="list-style-type: none"> • <code><Target>TransactionIdentifierValue</Target></code> where <i>TransactionIdentifierValue</i> is a numerical string identifying the original transaction. <p>Force: (optional) This is an indicator that specifies whether or not duplicate transactions will be processed. Valid formats are:</p> <ul style="list-style-type: none"> • <code><Force>T</Force></code> where <i>T</i> (true) indicates that duplicate transactions are accepted. • <code><Force>F</Force></code> where <i>F</i> (false) indicates that duplicate transactions are not accepted.
--	--	---

SureGate API Documentation

		<p>Note: Some processors, including Concord EFS, will not recognize this tag and delete duplicate transactions.</p> <p>Register Number: (optional) Unique identifier for a specific register. See 'Developer Notes' for invalid character processing. Valid format is:</p> <ul style="list-style-type: none"> • <code><RegisterNum>RegisterNum</RegisterNum></code> where <i>RegisterNum</i> is a valid unique identifier assigned to a specific register. <p>City (Depending on processor used, this may be required) City name for the card owner's billing address. See 'Developer Notes' for invalid character processing. Valid format is:</p> <ul style="list-style-type: none"> • <code><City>City</City></code> where <i>City</i> is the card owner's city name. <p>Bill-To State: (Depending on processor used, this may be required) Two-character state code for the card owner's bill-to address. See 'Developer Notes' for invalid character processing. Valid format is:</p> <ul style="list-style-type: none"> • <code><BillToState>BillToState</BillToState></code> where <i>BillToState</i> is the two-character state code for the card owner's bill-to address. <p>Customer ID: (optional) Identification number assigned to the customer by the merchant. Valid Format is:</p> <ul style="list-style-type: none"> • <code><CustomerID>CustomerID</CustomerID></code> where <i>CustomerID</i> is the customer's assigned customer ID. <p>Purchase Order (PO) Number: (optional) Customer or PO number used with Level II information. See 'Developer Notes' for invalid character processing. Valid format is:</p> <ul style="list-style-type: none"> • <code><PONum>PONum</PONum></code> where '<i>PONum</i>' is the number assigned to identify the customer or the PO. <p>Note: If using Level II with <i>Global Payments</i>, use the <i>CustCode</i> to pass this information instead.</p> <p>Bill Payment: (optional) This is an indicator that specifies whether or not the transaction is being used to pay a utility bill. It is only supported when <i>TransType</i> = Sale or RepeatSale. Valid formats are:</p> <ul style="list-style-type: none"> • <code><BillPayment>T</BillPayment></code> where <i>T</i> (true) indicates that the transaction is being used to pay a utility bill. • <code><BillPayment>F</BillPayment></code> where <i>F</i> (false) indicates that the transaction is being used for something other than a utility bill. <p>Note: This tag is only relevant to Retail, MOTO, and ecommerce markets. The information is currently supported by Vital, First Data North, and Global Payments processors. Other processors may be supported in the future.</p> <p>Card Verification Presence: (optional except for First Data transactions) Indicates whether card verification (CV, CVV2, CVC2, or CID) has been sent along with the request. Valid formats are:</p>
--	--	---

SureGate API Documentation

		<ul style="list-style-type: none"> • <code><CVPresence>1</CVPresence></code> where <i>1</i> indicates that no CV was provided. • <code><CVPresence>2</CVPresence></code> where <i>2</i> indicates that the CV was not submitted (i.e., the card was key entered). • <code><CVPresence>3</CVPresence></code> where <i>3</i> indicates that the CV was submitted. • <code><CVPresence>4</CVPresence></code> where <i>4</i> indicates that the CV is illegible. • <code><CVPresence>5</CVPresence></code> where <i>5</i> indicates that the CV was not present on the card. <p>Card Presence: (optional) Indicates whether the card was present for the transaction. Valid formats are:</p> <ul style="list-style-type: none"> • <code><Presentation><CardPresent>True</CardPresent></Presentation></code> where <i>True</i> indicates that the card was present at the time of the transaction. • <code><Presentation><CardPresent>False</CardPresent></Presentation></code> where <i>False</i> indicates that the card was not present at the time of the transaction. • <code><Presentation><CardPresent>Unknown</CardPresent></Presentation></code> where <i>Unknown</i> indicates that the card may or may not have been present at the time of the transaction. <p>Entry Mode: (optional) Indicates how the values for payment information were obtained. Valid formats are:</p> <ul style="list-style-type: none"> • <code><EntryMode>UNKNOWN</EntryMode></code> where <i>unknown</i> indicates that the mode of entry is unknown. • <code><EntryMode>MANUAL</EntryMode></code> where <i>manual</i> indicates that the payment values were manually entered. • <code><EntryMode>MagneticStripe</EntryMode></code> where <i>MagneticStripe</i> indicates that the payment values were entered via magnetic stripe card reader (swiped card). • <code><EntryMode>ICC</EntryMode></code> where <i>ICC</i> indicates that the mode of entry is Instant Card Clearing. • <code><EntryMode>PROXIMITY</EntryMode></code> where <i>proximity</i> indicates that the payment values were entered via proximity card reader. <p>AMEX Batch Phase: When working with AMEX batch settlement, the Phase value can be used to determine the phase of the settlement file. Valid formats are:</p> <ul style="list-style-type: none"> • <code><Phase>Confirm</Phase></code> where <i>Confirm</i> indicates that the batch is ready to settle • <code><Phase>Submit</Phase></code> where <i>Submit</i> indicates that the batch has
--	--	---

SureGate API Documentation



		<p>been submitted to the payment processor</p> <ul style="list-style-type: none"> • <code><Phase>None</Phase></code> where <i>None</i> indicates that no action has occurred <p>Note: Batches must be submitted before they can be settled (Confirm). If you send a “confirm” only, the most recently submitted batch will be settled.</p> <p><u>IIAS Fields specific to First Data North</u></p> <p>IIAS Indicator: (optional) Identifies whether the current transaction was authorized for submission by an auto substantiation database. For the indicator to be recognized the merchant must be set up for retail and the card type must be Visa or MasterCard. Valid formats are:</p> <ul style="list-style-type: none"> • <code><IIAS_Indicator>T</IIAS_Indicator></code> where T (true) indicates that the transaction was authorized. • <code><IIAS_Indicator>F</IIAS_Indicator></code> where F (true) indicates that the transaction was not authorized. • <code><IIAS_Indicator></IIAS_Indicator></code> where a blank value indicates that the transaction not was authorized. <p>Note: False or blank indicators will disqualify the transaction for IIAS and any other IIAS fields will be ignored.</p> <p>Partial Indicator: (optional) Indicates whether a transaction is partially approved by the host. Valid formats are:</p> <ul style="list-style-type: none"> • <code><Partial_Indicator>T</PartialIndicator></code> where T (true) indicates that the host may process the transaction as a partial authorization for available funds. • <code><Partial_Indicator>F</Partial_Indicator></code> where F indicates that the transaction does not qualify for partial approval. • <code><Partial_Indicator></Partial_Indicator></code> where a blank value indicates that the transaction does not qualify for partial approval. <p>Note: The Partial Indicator will return three fields in the response as received from the host (First Data North):</p> <ul style="list-style-type: none"> • Requested Amount: Decimal dollar amount as requested for authorization • Approved Amount: Decimal dollar amount as approved by the host • Balanced Amount: Decimal dollar amount remaining on the balance on the account. <p><i>Optional Amounts:</i> All optional amounts should include the decimal. They are all 13 character fields with explicit decimal. The total of the sub amounts must match to the total authorization amount of the transaction. Optional subtotal amount for qualified medical expenses (over-the-counter medical items). This applies to Visa transactions only.</p>
--	--	--

SureGate API Documentation

		<ul style="list-style-type: none"> • <QHP_Amount>Value</QHP_Amount> • <RX_Amount>Value</RX_Amount> - where <i>Value</i> is the optional prescription/RX subtotal in DDDD.CC format • <Vision_Amount>Value</Vision_Amount> - where <i>Value</i> is the optional Vision/Optical subtotal in DDDD.CC format • <Dental_Amount>Value</Dental_Amount> - where <i>Value</i> is the optional dental subtotal in DDDD.CC format • <Clinical_Amount>Value</Clinical_Amount> - where <i>Value</i> is the optional clinical subtotal in DDDD.CC format <p>If a partial reversal is required by an integrator, certain fields must be passed. The TransType passed with this request is the Reversal. You must also pass the PNRef and IIAS_Indicator = T</p> <p>The response will have the Partial_Reversal_Flag field set to T (true) and a Total_Amount field will show what amount is to be settled after requesting the partial reversal transaction.</p> <p>Full reversals are also supported. To request a full reversal, the IIAS_Indicator must be set to T (true).</p>
--	--	--

SureGate API Documentation



ProcessDebitCard

[\[top\]](#)

Service Location:

For SOAP connections:

`https://secure.suregate.net/ws/transact.asmx?op=ProcessDebitCard`

For standard HTTPS connections:

`https://secure.suregate.net/ws/transact.asmx/ProcessDebitCard?`

Description:

This web service is used whenever a transaction is completed via customer debit card. The processes supported by this web service include:

- **Sale** - make a purchase using a debit card
- **Return** – credits the card holder's account

BuyPass fuel transactions only:

- **Auth** – authorize the amount on a debit card
- **Force** – force an Auth transaction in to the current batch (PostAuth)

Terminal-based processors only:

- **Capture** – settle a single transaction in the current batch

Terminal-based processors and host-based processors supporting the batch release feature only:

- **CaptureAll** – settle all transactions in the current batch

Global Canadian Debit only:

- **AddReversal** - used when the host sends a response and the information is validated through the pin pad, if the information is found to be invalid. This transaction type can reverse the transaction sent to the host. The PNREF number of the original transaction can be sent along with the AddReversal transaction type to perform the reversal of that transaction.

Global, TSYS, and First Data North only:

- **Reversal** – perform a manual full reversal on a debit card sale within 24 hours of the original transaction. The expected behavior of this transaction type is defined by the type of the payment processor the merchant account is configured for. See 'Developer Notes' for additional information.

Developer Notes:

Invalid Characters: Some parameters and XML tags contain data that will automatically remove invalid characters from the user-entered data. These parameters and tags include:

- MagData
- NameOnCard
- InvNum
- RegisterNum

SureGate API Documentation



Reversal Transactions: Reversal is only for the following payment processors: TSYS, GlobalEast and First Data North (CES). All reversals must be processed as card-present transactions.

- *For TSYS:* The supported issuers for all debit card issuers. The supported industries are only retail and restaurant. Reversals must be processed within 2 hours of the original debit card transaction. TIP: TSYS requires the debit card number and expiration date along with the original sale PNREF number to process reversals.
- *For First Data North:* The supported industries are retail and restaurant. This is also supported for retail and restaurant and reversals must be processed within 24 hours of the original credit card transaction.
- *For Global East:* This is supported for all debit card issuers. It is supported retail and restaurant industries. It is required that the reversal be processed within the open batch time period. It restores debit bank account funds immediately.

PIN-less Debit Transactions: In some cases, debit transactions can be processed without the customer's entering a PIN number (a "PIN-less" debit transaction). Essentially, the same information is sent as in a typical PIN-based debit transaction, with the exception of the encrypted PIN-block and key serial number. This transaction type is currently *only* available with BuyPass and Global Payments processors.

If the designated processor is BuyPass or Global, the transaction will be accepted either with both the PIN-block and key serial number (interpreted as a PIN-based debit transaction) or accepted with neither piece of data (interpreted as a PIN-less debit transaction).

If the above requirements are met for a transaction, PIN-less debit transactions will be allowed through the Payment Server. However, when working with BuyPass, additional setup is required to ensure that the transaction is accepted by the processor:

Application ID Setup: To process PIN-less debit through BuyPass, the application ID sent must identify the application in use. Contact your administrator for additional details.

Register Number and Terminal ID Setup: When processing transactions with BuyPass, the Payment Server will attempt to match the RegisterNum passed from the client-side with the register number set up in the merchant account. Once it has made the match, it will send the corresponding terminal ID assigned to that register number to BuyPass. When no terminal ID is sent to BuyPass, the default value is sent (usually terminal ID "01").

If you are also doing VRU (phone-originated) transactions, a separate terminal ID must be set up in the registers on the merchant account and submitted in your request through the web service.

If the merchant will be doing both internet and VRU transactions at the same time, the terminal ID value will be required to differentiate between the two. For example, you may set up "01" for Internet and "02" for VRU. The request sent through the ProcessDebitCard operation must then send the appropriate register number to reflect the appropriate transaction type.

Fuel Purchases: Debit Card Use: Debit card processing for fuel purchases is now available through BuyPass only. This functionality allows for fuel purchases with standard debit cards (Visa, MasterCard, etc.). Debit fuel purchases (TransTypes Sale and Force) require item-level purchase information. If all the required information for a certain purchase is not provided, the transaction will be rejected and an error message generated. The main implication for the developer is that additional data must be passed to the gateway in order for fuel purchases to process correctly.

Item-level debit fuel purchase information is passed inside the <Items> tag in ExtData. Fuel purchases are differentiated at the gateway from other purchases by the Fuel designation placed within the <Category> tag in



SureGate API Documentation

item. In effect, a transaction will only be treated as a fuel transaction if at least one of the items within <Items> is designated as category Fuel.

Input Parameters:

O = Optional, R = Required, R* = Required except in Capture and CaptureAll transactions, R# = Required except for CaptureAll transactions, R1 = Required on Force and Capture transactions, R\$ = Required on all swiped card transactions

Parameter Name	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have an appropriate level of access in order to utilize the web service.
Password	R	Password associated with the user name provided.
TransType	R	Identifies the type of debit card transaction being made. Valid values are: <ul style="list-style-type: none">• Sale - make a purchase using a debit card• Return – credits the card holder’s account <i>BuyPass fuel transactions only:</i> <ul style="list-style-type: none">• Auth – authorize the amount on a debit card• Force – force an Auth transaction in to the current batch (PostAuth) <i>Terminal-based processors only:</i> <ul style="list-style-type: none">• Capture – settle a single transaction in the current batch <i>Terminal-based processors and host-based processors supporting the batch release feature only:</i> <ul style="list-style-type: none">• CaptureAll – settle all transactions in the current batch <i>Global Canadian Debit only:</i> <ul style="list-style-type: none">• AddReversal - used when the host sends a response and the information is validated through the pin pad, if the information is found to be invalid. This transaction type can reverse the transaction sent to the host. The PNREF number of the original transaction can be sent along with the AddReversal transaction type to perform the reversal of that transaction. <i>Global, TSYS, and First Data North only:</i> <ul style="list-style-type: none">• Reversal – perform a manual full reversal on a debit card sale within 24 hours of the original transaction. The expected behavior of this transaction type is defined by the type of the payment processor the merchant account is configured for. See ‘Developer Notes’ for additional information.
CardNum	R*	Debit card number used to uniquely identify the owner’s account.
ExpDate	R*	Debit card date of expiration in MMY format.
MagData	R\$	Data located the magnetic strip on the back of the card. The format of

SureGate API Documentation

		<p>the MagData is CardNum=ExpDate followed by the service date and checksum. For example:</p> <p>36438999960016=05121015432112345678</p> <p>Please ensure you have parsed out the Card Number and the Expire date from the Track data (Refer to sample in useful tips)</p>
NameOnCard	R	Card owner's name as it appears on the card
Amount	R#	<p>Total transaction amount in DDDD.CC format.</p> <p>Note: This amount includes the CashBackAmt and SureChargeAmt.</p>
InvNum	R	The invoice ID is assigned by the merchant. This identifier can be used to locate a specific transaction or multiple transactions grouped under a single invoice.
PNRef	R1	Unique payment reference number used to identify a single transaction within the system. The payment reference number (PNRef) is assigned by the payment server at the time the transaction is created.
Pin	R*	<p>The encrypted PIN-block returned by the PIN pad.</p> <p>Note: The transaction will fail if an unencrypted PIN is used.</p> <p>Note: This information is not required for PIN-less debit transactions. See 'Developer Notes' for additional information on pin-less debit transactions.</p>
RegisterNum	R	A string that uniquely identifies the register, terminal, or computer on which the transaction was performed.
SureChargeAmt	R	The amount, in DDDD.CC format, charged by a merchant in exchange for processing a debit card transaction.
CashBackAmt	R	The amount, in DDDD.CC format, requested by the card holder in cash back from the debit transaction.
ExtData	R	<p>The ExtData parameter allows you to pass additional information to the web service that is not covered under the input parameters. ExtData values need not be placed in any particular order; however, they must be properly formatted using XML tags.</p> <p>The following information may be added via the ExtData parameter:</p> <p>Time out: (optional) Processor time out value in seconds. The default value for the parameter is 30 seconds for a transaction and 300 seconds for a settlement transaction. Valid format is:</p> <ul style="list-style-type: none"> <TimeOut>TimeOut</TimeOut> where <i>TimeOut</i> is the processor time out value in seconds. <p>Training Mode: (optional) This is an indicator that specifies whether transactions will be processed for local loop back testing or treated normally. Valid formats are:</p> <ul style="list-style-type: none"> <TrainingMode>T</TrainingMode> where <i>T</i> (true) indicates that

SureGate API Documentation

		<p>training mode is active and transactions are processed for local loop back testing.</p> <ul style="list-style-type: none"> • <code><TrainingMode>F</TrainingMode></code> where <i>F</i> (false) indicates that training mode is inactive and transactions should be treated normally. <p>Key Serial Number: (required for all non-PIN-less debit transactions) PIN pad serial number. Valid format is:</p> <ul style="list-style-type: none"> • <code><KeySerialNumber>KeySerialNumber</KeySerialNumber></code> where <i>KeySerialNumber</i> is the PIN pad serial number used in managing DUKPT PIN pads. <p>Force: (optional) This is an indicator that specifies whether or not duplicate transactions will be processed. Valid formats are:</p> <ul style="list-style-type: none"> • <code><Force>T</Force></code> where <i>T</i> (true) indicates that duplicate transactions are accepted. • <code><Force>F</Force></code> where <i>F</i> (false) indicates that duplicate transactions are not accepted. <p>Note: Some processors, including BuyPass, will not recognize this tag and reject duplicate transactions.</p> <p><u>GLOBAL Interac Specific Tags</u></p> <p>The Global Canadian platform and does not require the US standard KeySerialNumber tag. In its place, this platform uses the Canadian MAC specific tags listed below. All of the tags within the <code><MAC></MAC></code> tags are required to process Canadian debit transactions.</p> <table border="1"> <thead> <tr> <th>Tag Format</th><th>Opt/Req</th><th>Description</th></tr> </thead> <tbody> <tr> <td><code><MAC></code></td><td>R</td><td></td></tr> <tr> <td><code><TID>TID Value</TID></code></td><td>R</td><td><i>TID or terminal Identification number is configured based on the PIN pad used as assigned by the processor. These tags are required by the AddReversal transaction type.</i></td></tr> <tr> <td><code><PSN>PSN Value</PSN></code></td><td>R</td><td><i>POS sequence number is the point of sale sequence number which follows a range between values of 001 to 999 and is</i></td></tr> </tbody> </table>	Tag Format	Opt/Req	Description	<code><MAC></code>	R		<code><TID>TID Value</TID></code>	R	<i>TID or terminal Identification number is configured based on the PIN pad used as assigned by the processor. These tags are required by the AddReversal transaction type.</i>	<code><PSN>PSN Value</PSN></code>	R	<i>POS sequence number is the point of sale sequence number which follows a range between values of 001 to 999 and is</i>
Tag Format	Opt/Req	Description												
<code><MAC></code>	R													
<code><TID>TID Value</TID></code>	R	<i>TID or terminal Identification number is configured based on the PIN pad used as assigned by the processor. These tags are required by the AddReversal transaction type.</i>												
<code><PSN>PSN Value</PSN></code>	R	<i>POS sequence number is the point of sale sequence number which follows a range between values of 001 to 999 and is</i>												

SureGate API Documentation



			specifically maintained by the Smart Payments Client application that allows for use with the Global Canadian Debit.												
Continued, next page.															
<table><tr><td>Tag Format</td><td>Opt/Req</td><td>Description</td></tr><tr><td><Value>MAC</Value></td><td>R</td><td>Allows for the submission of data specific to Interac/ Global Canada based transactions. The Terminal ID is required with all the Interac based transactions. This value is obtained from the Global PIN Pad device. This value is also supported in the response field that will contain the MAC key, POS Sequence Number Information and PIN Key.</td></tr><tr><td><Language>Language Value</Language></td><td>R</td><td>Valid Values are English or French. This value dictates what language is used in facilitating the Canadian debit transaction.</td></tr><tr><td></MAC></td><td></td><td></td></tr></table>				Tag Format	Opt/Req	Description	<Value>MAC</Value>	R	Allows for the submission of data specific to Interac/ Global Canada based transactions. The Terminal ID is required with all the Interac based transactions. This value is obtained from the Global PIN Pad device. This value is also supported in the response field that will contain the MAC key, POS Sequence Number Information and PIN Key.	<Language>Language Value</Language>	R	Valid Values are English or French. This value dictates what language is used in facilitating the Canadian debit transaction.	</MAC>		
Tag Format	Opt/Req	Description													
<Value>MAC</Value>	R	Allows for the submission of data specific to Interac/ Global Canada based transactions. The Terminal ID is required with all the Interac based transactions. This value is obtained from the Global PIN Pad device. This value is also supported in the response field that will contain the MAC key, POS Sequence Number Information and PIN Key.													
<Language>Language Value</Language>	R	Valid Values are English or French. This value dictates what language is used in facilitating the Canadian debit transaction.													
</MAC>															
Account Type: (required for submission with the MAC related values for															

SureGate API Documentation



		<p>Canadian Debit) This value identifies the type of account being debited. Valid format is:</p> <ul style="list-style-type: none">• <code><AccountType>Checking</AccountType></code> where <i>Checking</i> indicates that a checking account is being used for the debit transaction.• <code><AccountType>Saving</AccountType></code> where <i>Saving</i> indicates that a savings account is being used for the debit transaction.
--	--	---

SureGate API Documentation



ProcessCheck

[\[top\]](#)

Service Location:

For SOAP connections:

`https://secure.suregate.net/ws/transact.asmx?op=ProcessCheck`

For standard HTTPS connections:

`https://secure.suregate.net/ws/transact.asmx/ProcessCheck?`

Description:

This web service is used whenever a transaction is completed via customer check.

The processes supported by this web service include:

- Sale - make a purchase using a check (manually keyed or scanned)
- Auth (Verify) - authorizes or verifies the amount of a check
- Return - return the money of a settled check transaction to the check holder
- Void - undo a settled check transaction
- Force - (ForceSale) force a previous Sale transaction into the current batch

Terminal-based processors only:

- Capture - settle a single transaction in the current batch
- CaptureAll - settle all transactions in the current batch

Developer Notes:

Invalid Characters: Some parameters and XML tags contain data that will automatically remove invalid characters from the user-entered data. These parameters and tags include:

- NameOnCheck
- DL
- SS
- DOB
- StateCode
- ExtData: <Phone>
- Extdata: <Email>
- ExtData: <CityOfAccount>
- ExtData: <BillToStreet>
- ExtData: <BillToState>
- ExtData: <BillToPostalCode>
- ExtData: <BillToCountry>
- ExtData: <CustomerID>

Date Formats: Valid entry formats are:

- MM/DD/YYYY
- YYYY-MM-DD

Input Parameters:



SureGate API Documentation

O = Optional, R = Required, R* = Required except in Capture and CaptureAll transactions, R# = Required except for CaptureAll transactions, R1 = Required on Force and Capture transactions, R\$ = Required on all swiped card transactions

Parameter Name	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have an appropriate level of access in order to utilize the web service.
Password	R	Password associated with the user name provided.
TransType	R	<p>Identifies the type of check transaction being made. Valid values are:</p> <ul style="list-style-type: none">• Sale - make a purchase using a check• Auth (Verify) - authorizes or verifies the amount of a check• Return - return the money of a settled check transaction to the check holder• Void - undo a settled check transaction• Force - (ForceSale) force a previous Sale transaction into the current batch <p><i>Terminal-based Processors Only:</i></p> <ul style="list-style-type: none">• Capture - settle a single transaction in the current batch• CaptureAll - settle all transactions in the current batch <p>Note: If using the Return, Void, Force, or Capture TransTypes, you must include a PNRRef using the ExtData parameter.</p> <p>Note: If using the Sale or Return TransTypes, you may be required to include city of account, bill-to street, and bill-to postal code using the ExtData parameter.</p>
CheckNum	R*	Uniquely identifies an individual's check.
TransitNum	R*	Uniquely identifies the bank holding funds. Also called routing number.
AccountNum	R*	Uniquely identifies the check owner's bank account.
Amount	R*	Total transaction value in DDDD.CC format.
MICR	R\$	<p>Magnetic Ink Check Reader data line. This data string includes the TransitNum and AccountNum.</p> <p>Note: This input is <u>required</u> for processing check/consumer present transactions.</p> <p>Note: The formats of the MICR is processor specific and if the developer is not sure about what format your Check processor accepts, pass the RAW MICR as well in the TOAD format and details of this are described in the extended data. If the developer is sure about the precise format for MICR that is supported by the Check processor, then there is no need to pass the Raw MICR in TOAD format.</p>



SureGate API Documentation

NameOnCheck	R*	Check owner's name as it appears on the check. See 'Developer Notes' for invalid character processing. Note: This parameter may be <u>required</u> depending on the merchant's processor setup.
DL	O	Check owner's driver's license number. See 'Developer Notes' for invalid character processing.
SS	O	Check owner's Social Security number. See 'Developer Notes' for invalid character processing.
DOB	O	Check owner's date of birth. See 'Developer Notes' for date formats.
StateCode	O	Check owner's two-character state code. See 'Developer Notes' for invalid character processing. Note: This parameter may be <u>required</u> depending on the merchant's processor setup.
CheckType	O	Identifies the type of check used in the transaction. Valid values are: <ul style="list-style-type: none">• Personal• Corporate• Government
ExtData	O	<p>The ExtData parameter allows you to pass additional information to the web service that is not covered under the input parameters. ExtData values need not be placed in any particular order; however, they must be properly formatted using XML tags.</p> <p>The following information may be added via the ExtData parameter:</p> <p>Time out: (optional) Processor time out value in seconds. The default value for the parameter is 30 seconds. Valid format is:</p> <ul style="list-style-type: none">• <code><TimeOut>TimeOut</TimeOut></code> where <i>TimeOut</i> is the processor time out value in seconds. <p>PNRef: (required for TransType = Return, Void, Force, or Capture) Unique payment reference number used to identify a single transaction within the system. The payment reference number (PNRef) is assigned by the payment server at the time the transaction is created. Valid format is:</p> <ul style="list-style-type: none">• <code><PNRef>PNRef</PNRef></code> where <i>PNRef</i> is the valid payment reference number assigned to the transaction that is to be returned, voided, forced, or captured. <p>Phone: (optional) Check owner's phone number. See 'Developer Notes' for invalid character processing. Valid format is:</p> <ul style="list-style-type: none">• <code><Phone>Phone</Phone></code> where <i>Phone</i> is the check owner's phone number. <p>Email Address: (optional) Check owner's email address. See 'Developer Notes' for invalid character processing. Valid format is:</p> <ul style="list-style-type: none">• <code><Email>Email</Email></code> where <i>Email</i> is the check owner's email

SureGate API Documentation

		<p>address.</p> <p>Raw MICR: (Required for check/consumer present transactions) Raw Magnetic Ink Check Reader data line from the check reader. Valid format is:</p> <ul style="list-style-type: none"> • <code><RawMICR>RawMICR</RawMICR></code> where <i>RawMICR</i> is the transit number, account number, and check number in the following format: <i>TransitNumTAccountNumOCheckNum</i> <p>Note: TOAD format is the accepted default format for raw MICR for all check processors supported.</p> <p>Invoice Number: (optional) The invoice ID is assigned by the merchant. This identifier can be used to locate a specific transaction or multiple transactions grouped under a single invoice. Valid format is:</p> <ul style="list-style-type: none"> • <code><InvNum>InvNum</InvNum></code> where <i>InvNum</i> is the merchant-assigned invoice number. <p>Note: Many merchants use the invoice ID to store other values in the database. The exact nature of the value stored will vary by merchant.</p> <p>Training Mode: (optional) This is an indicator that specifies whether transactions will be processed for local loop back testing or treated normally. Valid formats are:</p> <ul style="list-style-type: none"> • <code><TrainingMode>T</TrainingMode></code> where <i>T</i> (true) indicates that training mode is active and transactions are processed for local loop back testing. • <code><TrainingMode>F</TrainingMode></code> where <i>F</i> (false) indicates that training mode is inactive and transactions should be treated normally. <p>Alliance Number: (optional) Check alliance number. Valid format is:</p> <ul style="list-style-type: none"> • <code><AllianceNum>AllianceNum</AllianceNum></code> where <i>AllianceNum</i> is the check's alliance number. <p>Account Type: (optional) Identifies the bank account for the check as a checking account or savings account. Valid formats are:</p> <ul style="list-style-type: none"> • <code><AccType>Checking</AccType></code> to indicate a checking account • <code><AccType>Savings</AccType></code> to indicate a savings account <p>City of Account (Depending on merchant setup, this may be required for TransType = Sale or Return) City name for the check owner's residential address. See 'Developer Notes' for invalid character processing. Valid format is:</p> <ul style="list-style-type: none"> • <code><CityOfAccount>CityOfAccount</CityOfAccount></code> where <i>CityOfAccount</i> is the check owner's city name. <p>Bill-To Street: (Depending on merchant setup, this may be required for TransType = Sale or Return) Street address for the check owner's bill-to address. See 'Developer Notes' for invalid character processing. Valid format is:</p>
--	--	--

SureGate API Documentation



		<ul style="list-style-type: none"> • <code><BillToStreet>BillToStreet</BillToStreet></code> where <i>BillToStreet</i> is the street name for the check owner's bill-to address. <p>Bill-To City: (optional) City name for the check owner's bill-to address. See 'Developer Notes' for invalid character processing. Valid format is:</p> <ul style="list-style-type: none"> • <code><BillToCity>BillToCity</BillToCity></code> where <i>BillToCity</i> is the city name for the check owner's bill-to address. <p>Bill-To State: (optional) Two-character state code for the check owner's bill-to address. See 'Developer Notes' for invalid character processing. Valid format is:</p> <ul style="list-style-type: none"> • <code><BillToState>BillToState</BillToState></code> where <i>BillToState</i> is the two-character state code for the check owner's bill-to address. <p>Bill-To Postal Code: (Depending on merchant setup, this may be required for TransType = Sale or Return) Postal/Zip code for the check owner's bill-to address. See 'Developer Notes' for invalid character processing. Valid format is:</p> <ul style="list-style-type: none"> • <code><BillToPostalCode>BillToPostalCode</BillToPostalCode></code> where <i>BillToPostalCode</i> is the street name for the check owner's bill-to address. <p>Bill-To-Country: (optional) Country name for the check owner's bill-to address. See 'Developer Notes' for invalid character processing. Valid format is:</p> <ul style="list-style-type: none"> • <code><BillToCountry>BillToCountry</BillToCountry></code> where <i>BillToCountry</i> is the country name for the check owner's bill-to address. <p>Customer ID: (optional) Identification number assigned to the customer by the merchant. Valid Format is:</p> <ul style="list-style-type: none"> • <code><CustomerID>CustomerID</CustomerID></code> where <i>CustomerID</i> is the customer's assigned customer ID. <p>Card Type: (optional) For use with image uploads specific to the processor RDM_ITMS. Valid format is:</p> <ul style="list-style-type: none"> • <code><CardType>IMAGE<CardType></code>
--	--	--

SureGate API Documentation



ProcessEBTCard

[\[top\]](#)

Service Location:

For SOAP connections:

`https://secure.suregate.net/ws/transact.asmx?op=ProcessEBTCard`

For standard HTTPS connections:

`https://secure.suregate.net/ws/transact.asmx/ProcessEBTCard?`

Description:

EBT is used in all U.S. states to issue government benefits to recipients. Benefits are automatically deposited onto the card by the state and recipients are issued an "EBT card" (similar to a bank ATM or debit card) to receive their food stamp and/or cash benefits. Recipients with food stamp benefits can use their EBT cards for eligible food purchases at most grocery stores and some other retailers.

This web service is used whenever a transaction is completed via customer EBT card. The processes supported by this web service include:

- FoodStampSale – make a purchase on an EBT cardholder's food stamp account
- FoodStampReturn – credit to an EBT cardholder's food stamp account
- CashBenefitSale – make a purchase on an EBT cardholder's cash benefit account
- Inquire – check the balance on an EBT card
- Capture – settle a single transaction in the current batch; only for terminal-based processors
- CaptureAll – settle all transactions in the current batch; only for terminal-based processors or host-based processors that support a batch release feature
- Force (Voucher Clear) – allow a merchant to pass a voucher number which is a reference number on the voucher slip to clear the transaction along with the authorization code obtained via a voice approval.
This means that you can perform a pin-less EBT sale with the authorization code along with the voucher reference number.

Developer Notes:

Invalid Characters: Some parameters and XML tags contain data that will automatically remove invalid characters from the user-entered data. These parameters and tags include:

- MagData
- NameOnCard
- InvNum
- RegisterNum

Register Number and Terminal ID Setup: When processing transactions with BuyPass, the Payment Server will attempt to match the RegisterNum passed from the client-side with the register number set up in the merchant account. Once it has made the match, it will send the corresponding terminal ID assigned to that register number to BuyPass. When no terminal ID is sent to BuyPass, the default value is sent (usually terminal ID "01").

If you are also doing VRU (phone-originated) transactions, a separate terminal ID must be set up in the registers on the merchant account and submitted in your request through the web service.

If the merchant will be doing both internet and VRU transactions at the same time, the terminal ID value will be required to differentiate between the two. For example, you may set up "01" for Internet and "02" for VRU. The request sent through the ProcessEBTCard operation must then send the appropriate register number to reflect the

SureGate API Documentation



appropriate transaction type.

Input Parameters:

O = Optional, R = Required, R* = Required except in Capture and CaptureAll transactions, R# = Required except for CaptureAll transactions, R1 = Required on Force and Capture transactions, R\$ = Required on all swiped card transactions

Parameter Name	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have an appropriate level of access in order to utilize the web service.
Password	R	Password associated with the user name provided.
TransType	R	Identifies the type of debit card transaction being made. Valid values are: <ul style="list-style-type: none">FoodStampSale – make a purchase on an EBT cardholder’s food stamp accountFoodStampReturn – credit to an EBT cardholder’s food stamp accountCashBenefitSale – make a purchase on an EBT cardholder’s cash benefit accountInquire – check the balance on an EBT cardCapture – settle a single transaction in the current batch; only for terminal-based processorsCaptureAll – settle all transactions in the current batch; only for terminal-based processors or host-based processors that support a batch release featureForce (Voucher Clear) – allow a merchant to pass a voucher number along with authorization code to perform a pin-less EBT sale. The voucher reference number is a reference number on the voucher slip to clear the transaction along with the authorization code obtained via a voice approval.
CardNum	R*	EBT card number used to uniquely identify the owner’s account.
ExpDate	R*	EBT card date of expiration in MMY format.
MagData	O	Data located on the magnetic strip on the back of the card. The format of the MagData is CardNum=ExpDate followed by the service code and checksum. For example: 36438999960016=05121015432112345678
NameOnCard	O	Card owner’s name as it appears on the card. See ‘Developer Notes’ for invalid character processing. Note: This parameter may be <u>required</u> depending on the merchant’s processor setup. Note: Invalid characters will be removed from this entry. See ‘Developer Notes’ for invalid character processing.

SureGate API Documentation

Amount	R*	Total transaction amount in DDDD.CC format. Note: This amount includes the CashBackAmt and SureChargeAmt.
InvNum	O	The invoice ID is assigned by the merchant. This identifier can be used to locate a specific transaction or multiple transactions grouped under a single invoice.
PNRef	R\$	Unique payment reference number used to identify a single transaction within the system. The payment reference number (PNRef) is assigned by the payment server at the time the transaction is created.
Pin	R*	The encrypted PIN-block returned by the PIN pad. Note: The transaction will fail if an unencrypted PIN is used.
RegisterNum	O	A string that uniquely identifies the register, terminal, or computer on which the transaction was performed.
SureChargeAmt	O	The amount, in DDDD.CC format, charged by a merchant in exchange for processing a debit card transaction.
CashBackAmt	O	The amount, in DDDD.CC format, requested by the card holder in cash back from the debit transaction.
ExtData	O	<p>The ExtData parameter allows you to pass additional information to the web service that is not covered under the input parameters. ExtData values need not be placed in any particular order; however, they must be properly formatted using XML tags.</p> <p>The following information may be added via the ExtData parameter:</p> <p>Time out: (optional) Processor time out value in seconds. The default value for the parameter is 30 seconds for a transaction and 300 seconds for a settlement transaction. Valid format is:</p> <ul style="list-style-type: none"> <code><TimeOut>TimeOut</TimeOut></code> where <i>TimeOut</i> is the processor time out value in seconds. <p>Training Mode: (optional) This is an indicator that specifies whether transactions will be processed for local loop back testing or treated normally. Valid formats are:</p> <ul style="list-style-type: none"> <code><TrainingMode>T</TrainingMode></code> where <i>T</i> (true) indicates that training mode is active and transactions are processed for local loop back testing. <code><TrainingMode>F</TrainingMode></code> where <i>F</i> (false) indicates that training mode is inactive and transactions should be treated normally. <p>Key Serial Number: (required for all non-PIN-less debit transactions) PIN pad serial number. Valid format is:</p> <ul style="list-style-type: none"> <code><KeySerialNumber>KeySerialNumber</KeySerialNumber></code> where <i>KeySerialNumber</i> is the PIN pad serial number used in managing DUKPT PIN pads.

SureGate API Documentation



		<p>Force: (optional) This is an indicator that specifies whether or not duplicate transactions will be processed. Valid formats are:</p> <ul style="list-style-type: none">• <code><Force>T</Force></code> where <i>T</i> (true) indicates that duplicate transactions are accepted.• <code><Force>F</Force></code> where <i>F</i> (false) indicates that duplicate transactions are not accepted. <p>Note: Some processors, including BuyPass, will not recognize this tag and reject duplicate transactions.</p>
--	--	---

SureGate API Documentation



ProcessGiftCard

[\[top\]](#)

Service Location:

For SOAP connections:

`https://secure.suregate.net/ws/transact.asmx?op=ProcessGiftCard`

For standard HTTPS connections:

`https://secure.suregate.net/ws/transact.asmx/ProcessGiftCard?`

Description:

This web service is used to process gift card transactions for a merchant.

The processes supported by this web service include:

- Redeem – make a purchase on a gift card
- Reload – increase the balance on a gift card
- Refund – refund money back to a gift card
- Activate – activate a gift card
- Deactivate – deactivate a gift card
- Inquire – check the balance on a gift card
- Void – undo an unsettled transaction

Paymentech/Tampa only:

- Force – place a transaction not processed through the payment server into the current batch (ForceAuth).

Terminal-based processors only:

- Capture – settle a single transaction in the current batch.

Processors supporting the batch release feature only:

- CaptureAll – settle all transactions in the current batch.

Developer Notes:

Invalid Characters: Some parameters and XML tags contain data that will automatically remove invalid characters from the user-entered data. These parameters and tags include:

- MagData
- InvNum
- ExtData: RegisterNum

Input Parameters:

O = Optional, R = Required, R* = Required except in Capture and CaptureAll transactions, R# = Required except for CaptureAll transactions, R1 = Required on Force and Capture transactions, R\$ = Required on all swiped card transactions

Parameter Name	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have an appropriate level of access in order to utilize the web service.

SureGate API Documentation

Password	R	Password associated with the user name provided.
TransType	R	<p>Identifies the type of gift card transaction being made. Valid values are:</p> <ul style="list-style-type: none"> • Redeem – make a purchase on a gift card • Reload – increase the balance on a gift card • Refund – refund money back to a gift card • Activate – activate a gift card • Deactivate – deactivate a gift card • Inquire – check the balance on a gift card • Void – undo an unsettled transaction <p><i>Paymentech/Tampa only:</i></p> <ul style="list-style-type: none"> • Force – place a transaction not processed through the payment server into the current batch (ForceAuth). <p><i>Terminal-based processors only:</i></p> <ul style="list-style-type: none"> • Capture – settle a single transaction in the current batch; only for terminal-based processors <p><i>Processors supporting the batch release feature only:</i></p> <ul style="list-style-type: none"> • CaptureAll – settle all transactions in the current batch.
CardNum	R	Gift card number used to uniquely identify the owner's account.
ExpDate	R	Gift card date of expiration in MMY format.
MagData	R\$	<p>Data located the magnetic strip on the back of the card. The format of the MagData is CardNum=ExpDate followed by the service code and checksum. For example:</p> <p>36438999960016=05121015432112345678</p>
Amount	R#	<p>Total transaction amount in DDDD.CC format.</p> <p>Note: This amount includes the CashBackAmt and SureChargeAmt.</p>
InvNum	O	The invoice ID is assigned by the merchant. This identifier can be used to locate a specific transaction or multiple transactions grouped under a single invoice.
PNRef	R1	Unique payment reference number used to identify a single transaction within the system. The payment reference number (PNRef) is assigned by the payment server at the time the transaction is created.

SureGate API Documentation

ExtData	O	<p>The ExtData parameter allows you to pass additional information to the web service that is not covered under the input parameters. ExtData values need not be placed in any particular order; however, they must be properly formatted using XML tags.</p> <p>The following information may be added via the ExtData parameter:</p> <p>Training Mode: (optional) This is an indicator that specifies whether transactions will be processed for local loop back testing or treated normally. Valid formats are:</p> <ul style="list-style-type: none"> • <TrainingMode>T</TrainingMode> where <i>T</i> (true) indicates that training mode is active and transactions are processed for local loop back testing. • <TrainingMode>F</TrainingMode> where <i>F</i> (false) indicates that training mode is inactive and transactions should be treated normally. <p>Force: (optional) This is an indicator that specifies whether or not duplicate transactions will be processed. Valid formats are:</p> <ul style="list-style-type: none"> • <Force>T</Force> where <i>T</i> (true) indicates that duplicate transactions are accepted. • <Force>F</Force> where <i>F</i> (false) indicates that duplicate transactions are not accepted. <p>Note: Some processors, including BuyPass, will not recognize this tag and reject duplicate transactions.</p> <p>Time out: (optional) Processor time out value in seconds. The default value for the parameter is 30 seconds for a transaction and 300 seconds for a settlement transaction. Valid format is:</p> <ul style="list-style-type: none"> • <TimeOut><i>TimeOut</i></TimeOut> where <i>TimeOut</i> is the processor time out value in seconds. <p>Register Number: (optional) This is unique identifier for the register, terminal or computer used to process the gift card transaction. Valid format is:</p> <ul style="list-style-type: none"> • <RegisterNum><i>RegisterNum</i></RegisterNum> where <i>RegisterNum</i> is equal to the register identification number stored on the merchant's account record. <p><u>Paymentech/Tampa Only</u></p> <p>Force Authorization: (optional) Places a previously authorized transaction (TransType = Redeem, Reload, or Activate) into the current batch.</p> <table border="1"> <thead> <tr> <th>Tag Format</th><th>Opt/Req</th><th>Description</th></tr> </thead> <tbody> <tr> <td><ForceAuth></td><td></td><td></td></tr> </tbody> </table>	Tag Format	Opt/Req	Description	<ForceAuth>		
Tag Format	Opt/Req	Description						
<ForceAuth>								

SureGate API Documentation



		<div><AuthCode>AuthCode</AuthCode></div>	R	Where <i>AuthCode</i> is the previously obtained authorization code from Paymentech/Tampa
		<div><ForceAuth></div>		

SureGate API Documentation



ProcessSignature

[\[top\]](#)

Service Location:

For SOAP connections:

`https://secure.suregate.net/ws/transact.asmx?op=ProcessSignature`

For standard HTTPS connections:

`https://secure.suregate.net/ws/transact.asmx/ProcessSignature?`

Description:

The ProcessSignature web service allows you to capture customer signatures from an input device.

This web service is used to capture a customer signature electronically and store that data on the virtual terminal. Transactions with captured signatures appear in the Payment Server with a small icon to the left of the transaction ID.

Developer Notes:

It is possible to send a receipt image file through the ProcessSignature web service operation from a client-side application in order to associate it with a transaction. Due to the overall complexity of creating a receipt image with ProcessSignature, here is a general list of steps your client-side application must perform in order to send images to the payment server.

1. Get image file from hardware device, etc. and convert image to TIFF image format, if it isn't already in that format.
2. Perform an LZW compression on the image data to reduce the file size (the payment server will only accept image data up to 25KB).
Note: LZW compression decompresses and decompresses without information loss, achieving compression ratios up to 5:1. It may be somewhat slower to compress and decompress than the PackBits scheme.
3. Compress the file itself with Zip compression to reduce the file size. Any PKZip-compatible Zip compressor and decompressor will work.
Note: IPWorks (www.ipworks.com) is a third-party provider of software tools and they have a product called "IPWorks! Zip" that can simplify the programmatic compression.
4. Base64 encode the image. This ensures that the binary-based information transported can be converted properly into text-based characters to send in the SignatureData parameter of ProcessSignature
5. Input the compressed/base64 encoded image data into the SignatureData parameter of ProcessSignature, and send it to the Payment Server

Input Parameters:

O = Optional, R = Required

Parameter Name	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have an appropriate level of access in order to utilize the web service.
Password	R	Password associated with the user name provided.
SignatureType	R	Identifies the format of the signature data being provided. Valid values

SureGate API Documentation

		<p>are:</p> <ul style="list-style-type: none"> Signature1 – Lipman credit Signature2 – Lipman check Signature3 – <i>no longer used</i> Signature4 – signature provided in a vector string Receipt1 – TIFF file (compressed and encoded Base64)
SignatureData	R	<p>This parameter holds the data string containing the signature data. If SignatureType = Signature4, the SignatureData will contain a string value of vector coordinates, delimited with a ^ character in the following format:</p> <p style="text-align: center;">x1,y1^x2,y2^xN,yN^~</p> <p>Where ^ is the coordinate delimiter, ~ is the ending delimiter, and a comma (,) is the vector delimiter.</p> <p>If there is a pen up event, use the coordinate 0,65535 to signal a break in the line.</p> <p>If SignatureType = Receipt1, you must compress and Base64 encode the image data. For additional information on compression and encoding, see the 'Developer Notes'.</p>
PNRef	R	<p>Unique payment reference number used to identify a single transaction within the system. The payment reference number (PNRef) is assigned by the payment server at the time the transaction is created.</p>
Result	O	<p>Indicator that specifies whether the transaction was approved. Valid entries are:</p> <ul style="list-style-type: none"> 1 (true) – transaction was approved 0 (false) – transaction was not approved
AuthCode	O	<p>The approval code is a 6-character string (alphanumeric) generated by the issuing bank. The code is used the card issuer to verify the specific authorization when transactions are being settled.</p>
ExtData	O	<p>The ExtData parameter allows you to pass additional information to the web service that is not covered under the input parameters. ExtData values need not be placed in any particular order; however, they must be properly formatted using XML tags.</p> <p>The following information may be added via the ExtData parameter:</p> <p>Training Mode: This is an indicator that specifies whether transactions will be processed for local loop back testing or treated normally. Valid formats are:</p> <ul style="list-style-type: none"> <TrainingMode>T</TrainingMode> where <i>T</i> (true) indicates that training mode is active and transactions are processed for local loop back testing. <TrainingMode>F</TrainingMode> where <i>F</i> (false) indicates

SureGate API Documentation



		that training mode is inactive and transactions should be treated normally.
--	--	---

SureGate API Documentation



ProcessCheck (Recurring Billing)

[\[Top\]](#)

Service Location:

For SOAP connections:

`https://secure.suregate.net/admin/ws/recurring.asmx?op=ProcessCheck`

For standard HTTPS connections:

`https://secure.suregate.net/admin/ws/recurring.asmx/ProcessCheck?`

Description:

This web service allows an integrator to process a Check Transaction against a checking account that has been ManageCheckInfo. This web service is for processing 'Sale' transactions only.

Developer Notes:

See Recurring Billing Web Services for more information on Check Data storage.

Input Parameters:

O = Optional, R = Required, R* = Required except when a payment reference number (PNRef) is provided

Parameter Name	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have an appropriate level of access in order to utilize the web service.
Password	R	Password associated with the user name provided.
Vendor	R	Unique numeric value used to identify a specific gateway account. Note: Vendor key may also be called Merchant ID, Merchant Number, or RPNNum. To locate your Vendor key on the virtual terminal, click Password under the Preferences menu.
CheckInfoKey	R	Numerical key value assigned to the payment method when it was added to the system. This value appears in the return result when a new payment method is added using ManageCheckInfo (see <CheckInfoKey></CheckInfoKey> tags) or can be found in the result set from the InfoCustomer web service.
InvNum	O	The invoice ID is assigned by the merchant. This identifier can be used to locate a specific transaction or multiple transactions grouped under a single invoice.
ExtData	O	Reserved for future use.

SureGate API Documentation



ProcessCreditCard (Recurring Billing)

[\[top\]](#)

Service Location:

For SOAP connections:

<https://secure.suregate.net/admin/ws/recurring.asmx?op=ProcessCreditCard>

For standard HTTPS connections:

<https://secure.suregate.net/admin/ws/recurring.asmx/ProcessCreditCard?>

Description:

This web service allows an integrator to process a Credit Card Transaction against a checking account that has been stored using ManageCreditCardInfo

This web service is for processing 'Sale' transactions only.

Developer Notes:

See Recurring Billing Web Services for more information on Credit Card Data storage.

Input Parameters:

O = Optional, R = Required, R* = Required except when a payment reference number (PNRef) is provided

Parameter Name	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have an appropriate level of access in order to utilize the web service.
Password	R	Password associated with the user name provided.
Vendor	R	Unique numeric value used to identify the merchant for the query. The Vendor key is assigned by the gateway and acts as the primary key for the merchant table. Note: Vendor key may also be called Merchant ID, Merchant Number, or RPNNum. To locate your Vendor key on the virtual terminal, click Password under the Preferences menu.
CheckInfoKey	R	Numerical key value assigned to the payment method when it was added to the system. This value appears in the return result when a new payment method is added (see <CcInfoKey></CcInfoKey> tags) or can be found in the result set from the InfoCustomer web service.
InvNum	O	The invoice ID is assigned by the merchant. This identifier can be used to locate a specific transaction or multiple transactions grouped under a single invoice
ExtData	O	Reserved for future use.

SureGate API Documentation



SureGate API Documentation



Custom Fields Documentation

[\[Top\]](#)

To pass in custom field data to any transactional web service, please observe the following field format:

*The following example assumes that the integrator has stored 2 custom fields, one named 'SampleFieldName1' and the other named 'SampleFieldName2'

```
<CustomFields>
  <SampleFieldName1>Sample String Data</SampleFieldName1>
  <SampleFieldName2>8675309</SampleFieldName2>
</CustomFields>
```

All data passed through the custom fields parameters will be returned in the GetCardTrx web service call following the same format.

In order for the data to be passed in correctly, the FieldName must reflect EXACTLY the field name of the custom field as it was added via the AddCustomField web service (see the Reporting Web Services portion of the API for additional information) or the Custom Fields menu in the virtual terminal.

The < /CustomFields> tag must be passed in the ExtData field of the web service you are consuming. The < /CustomFields> tag must contain no spaces, and must conform to XML standards.

SureGate API Documentation



ManageCustomer

[\[top\]](#)

Service Location:

For SOAP connections:

`https://secure.suregate.net/admin/ws/recurring.asmx?op=ManageCustomer`

For standard HTTPS connections:

`https://secure.suregate.net/admin/ws/recurring.asmx/ManageCustomer?`

Description:

This service is used to add, update, or delete a recurring billing customer record. Calling this service is the first step towards successfully storing and initiating recurring payments.

Developer Notes:

It is very important to understand that this web service is used for storing data, and is not for querying previously stored data. It is the responsibility of the integrator to store and maintain all returned 'Info Keys' for later use. When calling this service with a TransType value of 'UPDATE' it is also important to note that any values that are left 'NULL' will overwrite existing data with a 'NULL' value.

Input Parameters:

O = Optional, R = Required, R* = Required only when TransType = UPDATE

Parameter Name	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have an appropriate level of access within the system in order to utilize the web service.
Password	R	Password associated with the user name provided.
TransType	R	Indicates whether the contract is being added, updated, or deleted. Valid entries are: <ul style="list-style-type: none">• ADD• UPDATE• DELETE *Note: Passing in 'NULL' values to this service with a TransType of 'UPDATE' will override existing values to 'NULL'. It is very important that all data be updated when making this web service call.
Vendor	R	Unique numeric value used to identify the merchant. Note: Vendor key may also be called Merchant ID, Merchant Number, or RPNum. To locate your Vendor key on the virtual terminal, click Password under the Preferences menu.
CustomerKey	R*	Unique identifier assigned to the customer record by the system at the time the customer record is created. Note: The CustomerKey value can be found on the virtual terminal by

SureGate API Documentation

		accessing the View Customers option under the Recurring Billing menu. Display a list of customers by entering search criteria. The CustomerKey appears in the Key column.
Customer ID	R	Unique identifier assigned to the customer by the merchant at the time the customer record is created. Note: The CustomerID value can be found on the virtual terminal by accessing the View Customers option under the Recurring Billing menu. Display a list of customers by entering search criteria. The CustomerID appears in the Customer ID column.
CustomerName	R	Individual or customer business name. Note: The CustomerName can be found on the virtual terminal by accessing the View Customers option under the Recurring Billing menu. Display a list of customers by entering search criteria. The CustomerName appears in the Customer Name column.
FirstName	O	Customer contact first name.
LastName	O	Customer contact last name.
Title	O	Customer contact job or professional title. For example, "Business Unit Manager," or "Dr."
Department	O	Customer contact department. For example, "Sales," or "Operations."
Street1	O	Customer contact street address – line 1.
Street2	O	Customer contact street address – line 2.
Street3	O	Customer contact street address – line 3.
City	O	Customer contact city.
StateID	O	Customer contact's standard U.S. postal service two-character state code (U.S. customers only). Note: Valid entries are standard U.S. Postal service two-character state codes. For more information, see http://www.usps.com/ncsc/lookups/usps_abbreviations.html
Province	O	Customer contact's province (countries outside the U.S., only).
Zip	O	Customer contact's zip or postal code.
CountryID	O	Customer contact's three-character country code. For example, USA = United States or CAN = Canada.
DayPhone	O	Customer contact's daytime phone number.
NightPhone	O	Customer contact's after-hours phone number.
Fax	O	Customer contact's fax number.
Email	O	Customer contact's email address.
Mobile	O	Customer contact's mobile phone number.
Status	O	Indicates whether the customer record is currently active or inactive. Valid values are: <ul style="list-style-type: none"> ACTIVE

SureGate API Documentation



		<ul style="list-style-type: none">• INACTIVE• PENDING• CLOSED
ExtData	0	Reserved for future use.

SureGate API Documentation



ManageCreditCardInfo

[\[top\]](#)

Service Location:

For SOAP connections:

<https://secure.suregate.net/admin/ws/recurring.asmx?op=ManageCreditCardInfo>

For standard HTTPS connections:

<https://secure.suregate.net/admin/ws/recurring.asmx/ManageCreditCardInfo?>

Description:

This service allows you to store a credit card number securely within the Payment Server database. Calling this service is the second step towards successfully storing and initiating recurring payments if a credit card is to be the preferred method of payment.

Developer Notes:

The service returns a CCInfoKey value which takes the place of the cardholder data with which it is associated. It is the responsibility of the integrator to keep track of and store these keys.

An unlimited number of credit card profiles can be stored for any given customer.

Input Parameters:

O = Optional, R = Required

Parameter Name	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have an appropriate level of access within the system in order to utilize the web service.
Password	R	Password associated with the user name provided.
TransType	R	Indicates whether the payment type is being added, updated, or deleted. Valid entries are: <ul style="list-style-type: none">• ADD• UPDATE• DELETE
Vendor	R	Unique numeric value used to identify the merchant. Note: Vendor key may also be called Merchant ID, Merchant Number, or RPNum. To locate your Vendor key on the virtual terminal, click Password under the Preferences menu.
CustomerKey	R	Unique identifier assigned to the customer record by the system at the time the customer record is created. Note: The CustomerKey value can be found on the virtual terminal by accessing the View Customers option under the Recurring Billing menu. Display a list of customers by entering search criteria. The CustomerKey appears in the Key column.

SureGate API Documentation



CardInfoKey	0	Numerical key value assigned to the payment method when it was added to the system.
CcAccountNum	0	Credit card number used to uniquely identify the card owner's account.
CcExpDate	0	Credit card date of expiration in MMY format.
CcNameOnCard	0	Card owner's name as it appears on the card.
CcStreet	0	Card owner's billing address street name and number.
CCZip	0	Card owner's billing address postal/zip code.
ExtData	0	Reserved for future use.

SureGate API Documentation



ManageCheckInfo

[\[top\]](#)

Service Location:

For SOAP connections:

<https://secure.suregate.net/admin/ws/recurring.asmx?op=ManageCheckInfo>

For standard HTTPS connections:

<https://secure.suregate.net/admin/ws/recurring.asmx/ManageCheckInfo?>

Description:

This service allows you to store a checking account number securely within the Payment Server database. Calling this service is the second step towards successfully storing and initiating recurring payments if ACH or ECHECKS are to be the preferred method of payment.

Developer Notes:

The service returns a CheckInfoKey value which takes the place of the checking account data with which it is associated. It is the responsibility of the integrator to keep track of and store these keys.

An unlimited number of checking account profiles can be stored for any given customer.

Input Parameters:

O = Optional, R = Required, R* = Required for TransType values of UPDATE and DELETE

Parameter Name	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have an appropriate level of access within the system in order to utilize the web service.
Password	R	Password associated with the user name provided.
Vendor	R	Unique numeric value used to identify the merchant. Note: Vendor key may also be called Merchant ID, Merchant Number, or RPNNum. To locate your Vendor key on the virtual terminal, click Password under the Preferences menu.
TransType	R	Indicates whether the payment type is being added, updated, or deleted. Valid entries are: <ul style="list-style-type: none">• ADD• UPDATE• DELETE
CustomerKey	R	Unique identifier assigned to the customer record by the system at the time the customer record is created. Note: The CustomerKey value can be found on the virtual terminal by accessing the View Customers option under the Recurring Billing menu. Display a list of customers by entering search criteria. The CustomerKey

SureGate API Documentation

		appears in the Key column.
CheckInfoKey	R*	Numerical key value assigned to the payment method when it was added to the system.
CheckType	R	Identifies the type of check as a personal or business check. Valid values are: <ul style="list-style-type: none"> PERSONAL – Check is made from an individual (personal) checking account BUSINESS – Check is made from a business checking account
AccountType	R	Indicates whether the funds come from a checking or savings account. Valid values are: <ul style="list-style-type: none"> CHECKING – Check is made from a standard checking account or ACH SAVINGS – Check is made from a savings account
CheckNum	O	Uniquely identifies an individual's check.
MICR	O	Magnetic Ink Check Reader data line. This data string includes the TransitNum and AccountNum. Note: This parameter should be used if the developer knows the precise format for the MICR that is supported by the check processor. If the precise format is unknown, the raw MICR should also be included with the transaction. See the <RawMICR> tag under the ExtData parameter for additional information.
AccountNum	R	Uniquely identifies the check owner's bank account.
TransitNum	R	Uniquely identifies the bank holding funds. Also called routing number.
SS	O	Check owner's Social Security number.
DOB	O	Check owner's date of birth.
BranchCity	O	City where the issuing bank branch is located.
DL	O	Check owner's driver's license number.
StateCode	O	Check owner's standard U.S. postal service two-character state code or other standard province code. Note: Valid entries should follow USPS two-character state code standards. For more information, see http://www.usps.com/ncsc/lookups/usps_abbreviations.html Note: See Developer Notes for invalid character processing.
NameOnCheck	O	Check owner's name as it appears on the check. Note: See Developer Notes for invalid character processing.
Email	O	Customer contact's email address.
DayPhone	O	Customer contact's phone number.
Street1	O	Customer contact street address – line 1.
Street2	O	Customer contact street address – line 2.

SureGate API Documentation



Street3	O	Customer contact street address – line 3.
City	O	Customer contact city.
StateID	O	Customer contact's standard U.S. postal service two-character state code (U.S. customers only).
Province	O	Customer contact's province (countries outside the U.S., only).
PostCode	O	Customer contact's zip or postal code.
CountryID	O	Customer contact's three-character country code. For example, USA = United States or CAN = Canada
ExtDate	O	Reserved for future use.

SureGate API Documentation



ManageContract

[\[top\]](#)

Service Location:

For SOAP connections:

<https://secure.suregate.net/admin/ws/recurring.asmx?op=ManageContract>

For standard HTTPS connections:

<https://secure.suregate.net/admin/ws/recurring.asmx/ManageContract?>

Description:

This service allows the integrator to add, update, or delete the terms and interval of a recurring billing contract.

Developer Notes:

It is very important to understand that this web service is used for storing data, and is not for querying previously stored data. It is the responsibility of the integrator to store and maintain all returned 'Info Keys' for later use. When calling this service with a TransType value of 'UPDATE' it is also important to note that any values that are left 'NULL' will overwrite existing data with a 'NULL' value. If the desired effect is to simply update the next bill date, call ManageContractAddDaysToNextBillDt.

Input Parameters:

O = Optional, R = Required, R* = Required for TransType = UPDATE or DELETE, R\$ = Required for TransType = ADD or UPDATE

Parameter Name	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have an appropriate level of access within the system in order to utilize the web service.
Password	R	Password associated with the user name provided.
TransType	R	Indicates whether the contract is being added, updated, or deleted. Valid entries are: <ul style="list-style-type: none">• ADD• UPDATE• DELETE
Vendor	R	Unique numeric value used to identify the merchant. Note: Vendor key may also be called Merchant ID, Merchant Number, or RPNUM. To locate your Vendor key on the virtual terminal, click Password under the Preferences menu.
CustomerKey	R	Unique identifier assigned to the customer record by the system at the time the customer record is created. Note: The CustomerKey value can be found on the virtual terminal by accessing the View Customers option under the Recurring Billing

SureGate API Documentation

		menu. Display a list of customers by entering search criteria. The CustomerKey appears in the Key column.
ContractKey	R*	Unique identifier assigned to the contract by the system at the time the contract record is created. Note: The ContractKey value appears in the return results (see <ContractKey></ContractKey> tags) when a new contract is added to the system.
PaymentInfoKey	R\$	Information passed in the PaymentInfoKey parameter will vary depending on the PaymentType value passed. <ul style="list-style-type: none"> If a PaymentType of CC (credit card) is passed, send the CardInfoKey value If a PaymentType of CK (check) is passed, send the CheckInfoKey value
PaymentType	R\$	Identifies the type of payment method used. Valid values are: <ul style="list-style-type: none"> CC – Credit card CK – Check/ACH Note: This parameter is case sensitive. Lower case entries will result in an error.
Customer ID	R	Unique identifier assigned to the customer by the merchant at the time the customer record is created. Note: The CustomerID value can be found on the virtual terminal by accessing the View Customers option under the Recurring Billing menu. Display a list of customers by entering search criteria. The CustomerID appears in the Customer ID column.
CustomerName	R	Individual or customer business name. Note: The CustomerName can be found on the virtual terminal by accessing the View Customers option under the Recurring Billing menu. Display a list of customers by entering search criteria. The CustomerName appears in the Customer Name column.
FirstName	O	Customer contact first name.
LastName	O	Customer contact last name.
Title	O	Customer contact job or professional title. For example, “Business Unit Manager,” or “Dr.”
Department	O	Customer contact department. For example, “Sales,” or “Operations.”
Street1	O	Customer contact street address – line 1.
Street2	O	Customer contact street address – line 2.
Street3	O	Customer contact street address – line 3.
City	O	Customer contact city.



SureGate API Documentation

StateID	O	Customer contact's standard U.S. postal service two-character state code (U.S. customers only). Note: Valid entries should follow USPS two-character state code standards. For more information, see http://www.usps.com/ncsc/lookups/usps_abbreviations.html
Province	O	Customer contact's province (countries outside the U.S., only).
Zip	O	Customer contact's zip or postal code.
CountryID	O	Customer contact's three-character country code. For example, USA = United States or CAN = Canada.
DayPhone	O	Customer contact's daytime phone number.
NightPhone	O	Customer contact's after-hours phone number.
Fax	O	Customer contact's fax number.
Email	O	Customer contact's email address.
Mobile	O	Customer contact's mobile phone number.
ContractID	R	Unique identifier assigned to the contract by the merchant at the time the contract record is created. Note: The ContractKey value can be found on the virtual terminal by accessing the View Contracts option under the Recurring Billing menu. Display a list of contracts by entering search criteria. The ContractKey appears in the Contract ID column.
ContractName	O	Name assigned to the contract (used for easier identification).
BillAmt	R	Amount billed each time the contract comes due in DD.CCCC format.
TaxAmt	O	Additional tax amount applied to the BillAmt each time the contract comes due in DD.CCCC format.
TotalAmt	R	Total amount billed each time the contract comes due in DD.CCCC format. $BillAmt + TaxAmt = TotalAmt$
StartDate	R	Date that the contract becomes effective in MMDDYYYY format. The start date must be greater than today's date. The StartDate represents the first time the customer will be billed per the contract. Future bill dates are calculated using the BillingPeriod and BillingInterval parameters.
EndDate	O	Date that the contract is completed in MMDDYYYY format. The end date must be greater than the start date. If left blank, the contract will be checked every day until manually cancelled or suspended by the system due to lack of payment.
NextBillDt	R\$	Identifies the next time the contract will come due in MM/DD/YYYY

SureGate API Documentation



		<p>format.</p> <p>Note: The NextBillDe can be found on the contract detail in the virtual terminal. Click View Contracts under the Recurring Billing menu and search for the contract you want to work with. Click the linked Contract ID and locate the Next Bill Date field.</p> <p>See also ManageContractAddDaysToNextBillDt for simplified processing where only NextBillDt will be updated.</p>
BillingPeriod	R	<p>This value is used in conjunction with the BillingInterval to compute the next bill date for a contract. Valid values are:</p> <ul style="list-style-type: none"> • DAY • WEEK • MONTH • YEAR <p>Note: The system will automatically account for 31 day months and/or leap years. For example:</p> <ul style="list-style-type: none"> • Recurring billing is set to run once monthly • The contract start date is set for the 31st <p>If the next month only has 30 days, recurring billing will automatically run the transaction on the 30th.</p> <p>Note: This parameter is case sensitive.</p>
BillingInterval	R	<p>This value is used in conjunction with the BillingPeriod to compute the next bill date for a contract. Valid values are:</p> <ul style="list-style-type: none"> • 1 • 2 • 4 • 14
MaxFailures	O	<p>The number of times the system will try to re-process a failed payment before the contract is placed in suspended state. Valid entries are integers 0-10.</p> <p>If left blank, the default value is zero (0). A MaxFailure = 0 means that the system will not try to reprocess a failed payment.</p> <p>IMPORTANT: When a payment fails to process and the MaxFailures parameter is set to a value greater than zero (0), <u>all future payments will be ignored</u> until the failed payment is either successfully processed or the contract is suspended.</p>
FailureInterval	O	<p>Note: This parameter has been deprecated.</p>
EmailCustomer	O	<p>Indicates whether the system will send an email to the customer after successfully processing a scheduled payment. Valid values are:</p> <ul style="list-style-type: none"> • TRUE – Email is sent to the customer after successful payment

SureGate API Documentation



		<ul style="list-style-type: none"> FALSE – (default) Customer is not notified after successful payment <p>Note: Email notifications can only be sent if a valid customer contact email has been provided in the customer record.</p>
EmailMerchant	O	<p>Indicates whether the system will send an email to the merchant after successfully processing a scheduled payment. Valid values are:</p> <ul style="list-style-type: none"> TRUE – Email is sent to the merchant after successful payment FALSE – (default) Merchant is not notified after successful payment
EmailCustomerFailure	O	<p>Indicates whether the system will send an email to the customer after failing to process a scheduled payment. Valid values are:</p> <ul style="list-style-type: none"> TRUE – Email is sent to the customer after failed payment FALSE – (default) Customer is not notified after failed payment <p>Note: mail notifications can only be sent if a valid customer contact email has been provided in the customer record.</p>
EmailMerchantFailure	O	<p>Indicates whether the system will send an email to the merchant after failing to process a scheduled payment. Valid values are:</p> <ul style="list-style-type: none"> TRUE – Email is sent to the merchant after failed payment FALSE – (default) Merchant is not notified after failed payment <p>Note: Email notifications can only be sent if a valid merchant contact email has been provided in the merchant record.</p>
Status	O	<p>Indicates whether the contract is currently active (reviewed each day for pending payments due) or inactive. Valid values are:</p> <ul style="list-style-type: none"> ACTIVE – Contract is reviewed each day for pending payments INACTIVE – Contract is not reviewed for pending payments PENDING – Payment had failed to process CLOSED – contract has been programmatically closed and is no longer used
ExtData	O	Reserved for future use.

SureGate API Documentation



ManageContractAddDaysToNextBillDt

[\[top\]](#)

Service Location:

For SOAP connections:

<https://secure.suregate.net/admin/ws/recurring.asmx?op=ManageContractAddDaysToNextBillDt>

For standard HTTPS connections:

<https://secure.suregate.net/admin/ws/recurring.asmx/ManageContractAddDaysToNextBillDt?>

Description:

This web service allows the integrator to update the NextBillDate in the event that a payment was declined and a contract suspended.

Developer Notes:

Call this service in place of ManageContract if the NextBillDate is the only value being updated to minimize the possibility of overwriting data.

Input Parameters:

O = Optional, R = Required

Parameter Name	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have an appropriate level of access within the system in order to utilize the web service.
Password	R	Password associated with the user name provided.
Vendor	R	Unique numeric value used to identify the merchant for the query. Note: Vendor key may also be called Merchant ID, Merchant Number, or RPNUM. To locate your Vendor key on the virtual terminal, click Password under the Preferences menu.
CustomerKey	R	Unique identifier assigned to the customer record by the system at the time the customer record is created. Note: The CustomerKey value can be found on the virtual terminal by accessing the View Customers option under the Recurring Billing menu. Display a list of customers by entering search criteria. The CustomerKey appears in the Key column.
ContractKey	R	Unique identifier assigned to the contract by the system at the time the contract record is created. Note: The ContractKey value appears in the return results (see <ContractKey></ContractKey> tags) when a new contract is added to the system.

SureGate API Documentation



NumOfDays	R	The number of days to be added to the NextBillDt field. This value must be a positive integer.
ExtData	O	Reserved for future use.

SureGate API Documentation



AddCustomField

[\[top\]](#)

Service Location:

For SOAP connections:

<https://secure.suregate.net/ws/customfields.asmx?op=AddCustomField>

For standard HTTPS connections:

<https://secure.suregate.net/ws/customfields.asmx/AddCustomField?>

Description:

This web service allows an integrator to add custom fields programmatically to a gateway account. The data in these fields is not passed to the processor.

Developer Notes:

Adding a custom field creates a new column in the Transaction Reports grid and any data passed into this field by an integrator or in the virtual terminal will be stored in that column and accessible through the GetCardTrx web service. To pass data into a field an integrator must build an XML string which conforms to the following format:

*The following example assumes that the integrator has stored 2 custom fields, one named 'SampleFieldName1' and the other named 'SampleFieldName2'

```
<CustomFields>
  <SampleFieldName1>Sample String Data</SampleFieldName1>
  <SampleFieldName2>8675309</SampleFieldName2>
</CustomFields>
```

All data passed through the custom fields parameters will be returned in the GetCardTrx web service call following the same format.

Input Parameters:

O = Optional, R= Required, R* = Required based on dependencies

Parameter	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have the appropriate security permissions in order for the system to return transaction records.
Password	R	Password for the user name assigned in the payment server.
RPNum	R	Unique value assigned to each gateway account used as a third credential to ensure security and Note: RPNum may also be called Merchant ID, Merchant Number, or Vendor Key.
FieldName	R	The name of the field. This value must be unique and will be used to programmatically access the field when passing additional data using the

SureGate API Documentation

		ProcessCreditCard web service
IsNumeric	O	This is a boolean parameter. It is only necessary to pass in a value if the integrator wishes to allow only numeric data to be passed as input values.
DecimalPlaces	O	Integer value indicating the number of decimal places the integrator wishes this field to contain. For accurate storage of the value "2.79" the integrator would want to pass in a value of '2'. For accurate storage of the value "2.99999" the integrator would want to pass in a value of '5'. Leave this field 'Null' if not keeping track of numeric values
MaxLength	O	Maximum string length allowed in the field being added. Default value is '25'
RegEx	O	Enter any regular expressions needed to validate that the values being submitted to this field conform to a specific data type and/or format
IsRequired	R	Boolean indicating whether or not the integrator wishes this field to be required for all transactions. Valid values are 'True' and 'False'
Description	R	This is the human readable description that will display in the virtual terminal and on the cardholder receipt
MinValue	O	Minimum numeric value
MaxValue	O	Maximum numeric value
DisplayOnReceipt	O	This is a boolean parameter. Indicates whether or not the field will display on the cardholder receipt

SureGate API Documentation



GetCardTrx

[\[top\]](#)

Service Location:

For SOAP connections:

`https://secure.suregate.net/admin/ws/trxdetail.asmx?op=GetCardTrx`

For standard HTTPS connections:

`https://secure.suregate.net/admin/ws/trxdetail.asmx/GetCardTrx?`

Description:

This web service returns one or more card transactions (with details) for a specific merchant.

In addition to the basic transaction search function, the GetCardTrx web service can help you:

- Build a variety of custom reports, from customer billing histories to reports that help locate duplicate transactions.
- Build data mining applications. For example, determining what percentage of sales derive from specific users or payment types. If you have multiple gateway accounts, you can compile the data from multiple sources into your own customized and aggregated reports.
- Automate the reconciliation process between the payment server and the point-of-sale (POS) system or register.

Developer Notes:

Date Formats: Dates entered through input parameters are automatically formatted to `YYYY-MM-DDThh:mm:ss` (time is in 24-hour format using Pacific Standard Time (PST) zone). Valid entry formats are:

- `MM/DD/YYYY`
- `YYYY-MM-DD`
- `YYYY-MM-DDThh:mm:ss`

Date Query String: The query string used to obtain transactions in a date range is constructed as follows:

`(Date DT >=BeginDt) AND (Date DT <EndDt)`

*Date DT is the transaction timestamp.

Parameters Accepting Multiple Values: Some parameters (for example, `PaymentType` and `TransType`) will accept multiple values and return results using an either/or filter. When inputting multiple parameter values, use the following format:

`'VALUE1','VALUE2','VALUE3'`

Important: When entering any values in parameters accepting multiple entries, the values must be enclosed in single quotes (`' '`) to be accepted. Values are not case sensitive.

For example, the following values entered in the `PaymentType` parameter would return results with either the `PayReceipt` or `Settle` payment types:

`'PAYRECEIPT','SETTLE'`

Input Parameters:

O = Optional, R = Required, R* = Required unless a value of `PNRef` is provided

Parameter	Opt/Req	Description
-----------	---------	-------------



SureGate API Documentation

UserName	R	User name assigned in the payment server. The user must have the appropriate security permissions in order for the system to return transaction records.
Password	R	Password for the user name assigned in the payment server.
RPNum	R	Unique value assigned to each gateway account used as a third credential to ensure security and Note: RPNum may also be called Merchant ID, Merchant Number, or Vendor Key.
PNRef	O	The unique payment reference number assigned to the transaction. <i>If this field is provided, all other query fields will be ignored when using PNRef parameter to query the system.</i>
BeginDt	R*	Beginning date of the transaction record query.
EndDt	R*	End date of the transaction record query.
PaymentType	O	<p>If provided, only those transactions matching the PaymentType will be included. Valid values are:</p> <ul style="list-style-type: none">• 'AMEX' American Express card• 'CARTBLANCH' Carte Blanch card• 'DEBIT' Debit card• 'DINERS' Diners Club card• 'DISCOVER' Novus Discover card• 'EBT' Electronic Benefit Transfer• 'JAL' JAL card• 'JCB' Japanese Commercial Bank card• 'MASTERCARD' Master card• 'VISA' Visa card• 'EGC' Gift card• 'PAYRECEIPT' to retrieve receipt images that were uploaded to the payment server• 'SETTLE' to retrieve requests to settle transactions <p>Note: The default value for this field is "All". If no value is set, all payment types will be returned in the result set. Or any permutation of the above values, e.g. "'PAYRECEIPT','SETTLE'" will pull all transactions with either PayReceipt or Settle payment types.</p>
ExcludePaymentType	O	The ExcludePaymentType parameter allows you to exclude certain payment types from the result set. Any valid entry (or combination) listed under the

SureGate API Documentation



		<p>PaymentType parameter may be used.</p> <p>Note: If you pass the same value in the PaymentType and ExcludePaymentType parameters, the entry in the ExcludePaymentType parameter will override the PaymentType and results of that type will be excluded.</p>
TransType	O	<p>If provided, only those transactions matching the TransType will be included. Valid values are</p> <ul style="list-style-type: none"> • 'Authorization' to retrieve previously-authorized (pre-auth) transactions • 'Capture' to retrieve captured transactions • 'Credit' to retrieve return transactions • 'ForceCapture' to retrieve force-auth transactions • 'GetStatus' to make an inquiry to the EBT or gift card's balance • 'PostAuth' to retrieve post-auth transactions • 'Purged' to remove a transaction from the current batch due to an error • 'Receipt' to retrieve receipt images that were uploaded to the payment server • 'RepeatSale' to retrieve repeat-sale transactions • 'Sale' to retrieve sale transactions • 'Void' to retrieve void transactions <p>Or any permutation of the above values, e.g. "'Credit','Sale'" will pull all transactions with either Credit or Sale transaction types.</p>
ExcludeTransType	O	<p>The ExcludeTransType parameter allows you to exclude certain transaction types from the result set. Any valid entry (or combination) listed under the TransType parameter may be used.</p> <p>Note: If you pass the same value in the TransType and ExcludeTransType parameters, the entry in the ExcludeTransType parameter will override the TransType and results of that type will be excluded.</p> <p>Note: A value of 'Void' in the ExcludeTransType parameter will be overridden by the ExcludeVoid if both parameters are used.</p> <p>This parameter accepts multiple values.</p>
ApprovalCode	O	<p>The approval code is a 6-character string (alphanumeric) generated by the issuing bank. The code is used the card issuer to verify the specific authorization when transactions are being settled. This field may also be used by payment processors to return error messages.</p> <p>Note: You may only query one approval code at a time; however, approval codes are not necessarily unique and there is potential (rare) for more than one record to be returned.</p>

SureGate API Documentation

Result	O	<p>If provided, only those transactions matching the Result will be included. Valid values are:</p> <ul style="list-style-type: none"> • 'NULL' returns both approved and declined transactions • '0' returns only approved transactions • Any other value for Result will return transactions matching that Result code. <p>Note: to return only declined transactions do not pass a value for this parameter and instead set ExcludeResult = 0</p>
ExcludeResult	O	<p>If provided, any transactions matching the ExcludeResult will be excluded. Note: To return a only declined transactions, set ExcludeResult = 0</p>
NameOnCard	O	<p>Cardholder's name as it appears on the card. If provided, only those transactions with cardholder's name matching NameOnCard will be included. Matching is done using wild cards: e.g. "test" will match "test", "1test" and "1test234"</p>
CardNum	O	<p>A card number. If provided, only those transactions with the card number matching CardNum will be included. Matching is done using wild cards.</p>
CardType	O	<p>This field has been deprecated. Please use the PaymentType field to specify the type of card used in a transaction.</p>
ExcludeCardType	O	<p>This field has been deprecated. Please use the ExcludePaymentType field to specify the type of cards you wish to be excluded from the result set.</p>
ExcludeVoid	R*	<p>The ExcludeVoid parameter allows you to exclude voided transactions from the result set. Valid entries are:</p> <ul style="list-style-type: none"> • 'TRUE' – voided transactions are excluded • 'FALSE' – voided transactions are included <p>Note: A value of 'Void' in the ExcludeTransType parameter will be overridden by the ExcludeVoid if both parameters are used.</p>
User	O	<p>The user who originated the transactions. If provided, only those transactions created by the matching User will be included. Matching is done using wild cards: e.g. "test" will match "test", "1test" and "1test234"</p>
InvoiceId	O	<p>The invoice ID that was included in the original transaction. If provided, only those transactions with matching invoiceId will be included. Matching is done using wild cards: e.g. "test" will match "test", "1test" and "1test234"</p>
SettleFlag	O	<p>The SettleFlag parameter allows you to choose whether settled or unsettled transactions are included in the results. Valid entries are:</p> <ul style="list-style-type: none"> • Unused/blank returns all transactions

SureGate API Documentation

		<ul style="list-style-type: none"> • '1' - returns only settled transactions • '0' - returns only transactions that are not yet settled
SettleMsg	O	The settlement ID or message returned from the host.
SettleDt	O	The date of settlement.
TransformType	O	<p>The type of format to transform the data into. Leave the field blank to default to XML</p> <ul style="list-style-type: none"> • 'XML' will output the plain XML string • 'XSL' will use XSL to transform the XML output • 'DELIM' uses ColDelim and RowDelim to format the output
Xsl	O	<p>This field is used only if the TransformType is XSL. If provided, the resulting dataset will be transformed using this XSL. You may pass in a URL to the XSL file, or the XSL string itself. If this field is not empty, the Web Services will try to locate the file from the URL. If that also fails, it will treat it as an XSL string. In any case, the final XSL string will be loaded and validated against the XSL schema; if it passes, then that XSL will be used for transformation. A sample predefined XSL is included with this Web Services:</p> <ul style="list-style-type: none"> • '<a href="https://<PMN assigned host name>/admin/ws/TabDelim.xsl">https://<PMN assigned host name>/admin/ws/TabDelim.xsl' for a tab delimited transformation
ColDelim	O	<p>This field is used only if the TransformType is DELIM. This defines the string that separates each column:</p> <p>e.g. a value of '@', would separate each column value with '@'</p>
RowDelim	O	<p>This field is used only if the TransformType is DELIM. This defines the string that separates each row</p> <p>e.g. a value of '!' would start each row with '!'</p>
IncludeHeader	O	<p>This field is used only if the TransformType is DELIM. If TRUE, then field headers will be included in the first row using the same delimiter strings; must either be TRUE or FALSE</p>
ExtData	O	<p>The ExtData parameter allows you to pass additional information to the web service that is not covered under the input parameters. ExtData values need not be placed in any particular order; however, they must be properly formatted using XML tags.</p> <p>Extended data in XML format. Valid values are:</p> <ul style="list-style-type: none"> • '<IMAGE_TYPE>NO_IMAGE</IMAGE_TYPE>' – Will only return transaction data that <i>does not</i> include image data (to include signature data and check images)

SureGate API Documentation



		<ul style="list-style-type: none">• '<code><IMAGE_TYPE>ONLY_IMAGE</IMAGE_TYPE></code>' – Will only return transaction data that <i>includes</i> image data (to include signature data and check images)• '<code><IMAGE_TYPE>ALL</IMAGE_TYPE></code>' - will return transaction with or without image data• '<code><CustomerID>CustomerID</CustomerID></code>' – specifies the customer ID value to search by. Matching is done using wild cards: e.g. "test" will match "test", "1test" and "1test234"• '<code><Amount>Amount</Amount></code>' – specifies the amount value of the transactions being searched for. In DDDDDD.CC format• '<code><RegisterNum>RegisterNum</RegisterNum></code>' - specifies the register number, originally passed with the transaction, to search by
--	--	--

SureGate API Documentation



GetCardTrxSummary

[\[top\]](#)

Service Location:

For SOAP connections:

<https://secure.suregate.net/admin/ws/trxdetail.asmx?op=GetCardTrxSummary>

For standard HTTPS connections:

<https://secure.suregate.net/admin/ws/trxdetail.asmx/GetCardTrxSummary?>

Description:

The GetCardTrxSummary web service allows you to view summary data for one or more card transactions within a given date range. Optional filters allow you to collect summary data by card type, card owner, account number, register, settle or approval status, user, etc.

Developer Notes:

Date Formats: Dates entered through input parameters are automatically formatted to YYYY-MM-DDThh:mm:ss (time is in 24-hour format using Pacific Standard Time (PST) zone). Valid entry formats are:

- MM/DD/YYYY
- YYYY-MM-DD
- YYYY-MM-DDThh:mm:ss

Date Query String: The query string used to obtain transactions in a date range is constructed as follows:

(Date DT >=BeginDt) AND (Date DT <EndDt)

*Date DT is the transaction timestamp.

Input Parameters:

O = Optional, R= Required, R* = Required unless a value of PNRef is provided

Parameter Name	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have an appropriate level of access within the system in order to return records.
Password	R	Password associated with the user name provided.
RPNum	R	Unique numeric value used to identify the merchant for the query. The RPNum is assigned by the gateway and acts as the primary key for the merchant table. Note: RPNum may also be called Merchant ID, Merchant Number, or Vendor Key.
BeginDt	R	Identifies the beginning date range for a group of transactions.
EndDt	R	Identifies the ending date range for a group of transactions.
ApprovalCode	O	The approval code is a 6-character string (alphanumeric) generated by the issuing bank. The code is used the card issuer to verify the specific authorization when transactions are being settled. This field may also be used by payment processors to return error messages.

SureGate API Documentation

		Note: You may only query one approval code at a time; however, approval codes are not necessarily unique and there is potential (rare) for more than one record to be returned.
Register	O	The register is a unique string used to identify the register where the transaction took place. If used, only transactions made with the matching register number will be returned.
NameOnCard	O	If a card holder name is provided for this parameter, only those transactions with matching cardholder names will be returned. Matching is done using wild cards: e.g. "test" will match "test", "1test" and "1test234"
CardNum	O	If a card number is provided for this parameter, only those transactions with matching card numbers will be returned. Matching is done using wild cards: e.g. "test" will match "test", "1test" and "1test234"
CardType	O	<p>The card type identifies the type of card used to make the transaction. If one or more card types are provided, only transactions with matching CardType will be included in the results. Valid entries are:</p> <ul style="list-style-type: none"> • Unused/blank returns summary information for all card types • 'AMEX' - American Express card • 'CARTBLANCH' - Carte Blanch card • 'DEBIT' - Debit card • 'DINERS' - Diners club card • 'DISCOVER' - Discover card • 'EBT' - Electronic benefit transfer • 'JAL' - Japanese Airlines card • 'JCB' - Japanese Commercial Bank card • 'MASTERCARD' - Master card • 'VISA' - Visa card • 'EGC' - Gift card <p>Or any permutation of the above values, e.g. "'AMEX','MASTERCARD'" will pull all transactions with either AMEX or MASTERCARD payment types.</p>
ExcludeVoid	R	<p>The ExcludeVoid parameter allows you to exclude voided transactions from the result set. Valid entries are</p> <ul style="list-style-type: none"> • 'TRUE' - voided transactions are excluded from summary information • 'FALSE' - voided transactions are included from summary information

SureGate API Documentation

User	O	If provided, only transactions generated by users with a matching user ID will be included in the results. Matching is done using wild cards: e.g. "test" will match "test", "1test" and "1test234"
SettleFlag	O	The SettleFlag parameter allows you to choose whether settled or unsettled transactions are included in the results. Valid entries are: <ul style="list-style-type: none"> Unused/blank returns summary information for settled and unsettled transactions '1' - returns only summary information for settled transactions '0' - return only summary information for transactions that are not yet settled
SettleMsg	O	The settlement message is an ID or message returned from the host upon settlement of a transaction. If provided, only the transaction that exactly matches the SettleMsg provided will be returned.
SettleDt	O	If provided, only transactions that were settled on the same date will be included in the results.
TransformType	O	Indicates how the result set should be formatted. Valid entries are: <ul style="list-style-type: none"> 'XML' - outputs a plain XML string 'XSL' - uses XSL to format the XML output. If 'XSL' is selected, use the Xsl parameter to identify the XSL string that will be used to format the output. 'DELIM' - outputs records in a delimited format. If 'DELIM' is selected, you may also pass values for the ColDelim, RowDelim, and IncludeHeader parameters.
Xsl	O	This field is used only if the TransformType is XSL. If provided, the resulting dataset will be transformed using this XSL. You may pass in a URL to the XSL file, or the XSL string itself. If this field is not empty, the Web Services will try to locate the file from the URL. If that also fails, it will treat it as an XSL string. In any case, the final XSL string will be loaded and validated against the XSL schema; if it passes, then that XSL will be used for transformation.
ColDelim	O	This field is used only if the TransformType is DELIM. This defines the string that separates each column: e.g. a value of '@', would separate each column value with '@'
RowDelim	O	This field is used only if the TransformType is DELIM. This defines the string that separates each row e.g. a value of '!' would start each row with '!'
IncludeHeader	O	This field is used only if the TransformType is DELIM. If TRUE, then field

SureGate API Documentation

		headers will be included in the first row using the same delimiter strings; must either be TRUE or FALSE
ExtData	O	<p>The ExtData parameter allows you to pass additional information to the web service that is not covered under the input parameters. ExtData values need not be placed in any particular order; however, they must be properly formatted using XML tags.</p> <p>Extended data in XML format. Valid values are:</p> <ul style="list-style-type: none"> • '<IMAGE_TYPE>NO_IMAGE</IMAGE_TYPE>' – Will only return transaction data that <i>does not</i> include image data (to include signature data and check images) • '<IMAGE_TYPE>ONLY_IMAGE</IMAGE_TYPE>' – Will only return transaction data that <i>includes</i> image data (to include signature data and check images) • '<IMAGE_TYPE>ALL</IMAGE_TYPE>' - will return transaction with or without image data • '<CustomerID>CustomerID</CustomerID>' – specifies the customer ID value to search by. Matching is done using wild cards: e.g. "test" will match "test", "1test" and "1test234" • '<Amount>Amount</Amount>' – specifies the amount value of the transactions being searched for. • • '<RegisterNum>RegisterNum</RegisterNum>' - specifies the register number, originally passed with the transaction, to search by



SureGate API Documentation

GetCheckTrx

[\[top\]](#)

Service Location:

For SOAP connections:

<https://secure.suregate.net/admin/ws/trxdetail.aspx?op=GetCheckTrx>

For standard HTTPS connections:

<https://secure.suregate.net/admin/ws/trxdetail.aspx/GetCheckTrx?>

Description:

This web service returns one or more check transactions (with details) for a specific merchant.

In addition to the basic transaction search function, the GetCheckTrx web service can help you to build a variety of custom reports, aid in data mining applications, and help to automate reconciliation. Custom reports, from customer billing histories to reports that help locate duplicate transactions, and data mining applications – for example, determining what percentage of sales come through a given payment type, are easily constructed by filtering for only the data that is needed.

GetCheckTrx can also be used to automate the reconciliation process between the payment server and the point-of-sale (POS) system or register.

Developer Notes:

Date Formats: Dates entered through input parameters are automatically formatted to YYYY-MM-DDThh:mm:ss (time is in 24-hour format using Pacific Standard Time (PST) zone). Valid entry formats are:

- MM/DD/YYYY
- YYYY-MM-DD
- YYYY-MM-DDThh:mm:ss

Date Query String: The query string used to obtain transactions in a date range is constructed as follows:

(Date DT >=BeginDt) AND (Date DT <EndDt)

*Date DT is the transaction timestamp.

Parameters Accepting Multiple Values: Some parameters (for example, PaymentType and TransType) will accept multiple values and return results using an either/or filter. When inputting multiple parameter values, use the following format:

'VALUE1','VALUE2','VALUE3'

Important: When entering any values in parameters accepting multiple entries, the values must be enclosed in single quotes (' ') to be accepted. Values are not case sensitive.

For example, the following values entered in the PaymentType parameter would return results with either the PayReceipt or Settle payment types:

'PAYRECEIPT','SETTLE'

Input Parameters:

O = Optional, R = Required, R* = Required unless a value of PNRef is provided

Parameter Name	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have

SureGate API Documentation

		an appropriate level of access within the system in order to return records.
Password	R	Password associated with the user name provided.
RPNum	R	Unique numeric value used to identify the merchant for the query. The RPNum is assigned by the gateway and acts as the primary key for the merchant table. Note: RPNum may also be called Merchant ID, Merchant Number, or Vendor Key.
PNRef	O	Unique payment reference number used to identify a single transaction within the system. The payment reference number (PNRef) is assigned by the payment server at the time the transaction is created. Note: If a PNRef is provided, all other query fields will be ignored.
BeginDt	R*	Identifies the beginning date range for a group of transactions.
EndDt	R*	Identifies the ending date range for a group of transactions.
PaymentType	O	The payment type identifies the payment venue. If one or more payment types are provided, only transactions with matching PaymentType will be included in the results; all other PaymentType values will be excluded. Valid entries are: <ul style="list-style-type: none"> • 'ACH' - Automated Clearing House • 'ECHECK' - Electronic check • 'GUARANTEE' - Guarantee check • 'PAYRECEIPT' - receipt images uploaded to the server • 'SETTLE' - transactions that have been finalized with the payment host • 'VERIFY' - Pre-authorized checks Note: The default value for this field is "All". If no value is set, all payment types will be returned in the result set. Or any permutation of the above values, e.g. "'ACH','ECHECK'" will pull all transactions with either ACH or ECHECK payment types.
ExcludePaymentType	O	The ExcludePaymentType parameter allows you to exclude certain payment types from the result set. Any valid entry (or combination) listed under the PaymentType parameter may be used. Note: If you pass the same value in the PaymentType and ExcludePaymentType parameters, the entry in the ExcludePaymentType parameter will override the PaymentType and results of that type will be excluded. This parameter accepts multiple values.
TransType	O	If provided, only those transactions matching the TransType will be included. Valid values are

SureGate API Documentation

		<ul style="list-style-type: none"> 'Authorization' to retrieve previously-authorized (pre-auth) transactions 'Capture' to retrieve captured transactions 'Credit' to retrieve return transactions 'ForceCapture' to retrieve force-auth transactions 'GetStatus' to make an inquiry to the EBT or gift card's balance 'PostAuth' to retrieve post-auth transactions 'Purged' to remove a transaction from the current batch due to an error 'Receipt' to retrieve receipt images that were uploaded to the payment server 'RepeatSale' to retrieve repeat-sale transactions 'Sale' to retrieve sale transactions 'Void' to retrieve void transactions <p>Or any permutation of the above values, e.g. "'Credit','Sale'" will pull all transactions with either Credit or Sale transaction types.</p>
ExcludeTransType	O	<p>The ExcludeTransType parameter allows you to exclude certain transaction types from the result set. Any valid entry (or combination) listed under the TransType parameter may be used.</p> <p>Note: If you pass the same value in the TransType and ExcludeTransType parameters, the entry in the ExcludeTransType parameter will override the TransType and results of that type will be excluded.</p> <p>Note: A value of 'Void' in the ExcludeTransType parameter will be overridden by the ExcludeVoid if both parameters are used.</p> <p>This parameter accepts multiple values.</p>
ApprovalCode	O	<p>The approval code is a 6-character string (alphanumeric) generated by the issuing bank. The code is used the card issuer to verify the specific authorization when transactions are being settled.</p> <p>Note: You may only query one approval code at a time; however, approval codes are not necessarily unique and there is potential (rare) for more than one record to be returned.</p>
Result	O	<p>The result indicates whether a transaction was approved (Result = 0) or declined (Result ≠ 0). Valid entries are:</p> <ul style="list-style-type: none"> Unused/blank returns both approved and declined transactions 0 - returns only approved transactions <p>Note: To return only declined transactions, leave this parameter blank and use the ExcludeResult parameter.</p>

SureGate API Documentation

ExcludeResult	O	The result indicates whether a transaction was approved (Result = 0) or declined (Result ≠ 0). If provided, any transactions matching the ExcludeResult input will be excluded. Note: To return a only declined transactions, set ExcludeResult = 0
NameOnCheck	O	If an owner's name is provided for this parameter, only those transactions with matching names will be returned. Matching is done using wild cards: e.g. "test" will match "test", "1test" and "1test234"
CheckNum	O	If a check number is provided for this parameter, only those transactions with a matching check number will be returned.
AcctNum	O	If a checking account number is provided, only those transactions with matching account numbers will be returned. Matching is done using wild cards: e.g. "test" will match "test", "1test" and "1test234"
RouteNum	O	If a route number (transit number) is provided, only those transactions with matching route numbers will be returned. Matching is done using wild cards: e.g. "test" will match "test", "1test" and "1test234"
ExcludeVoid	O	The ExcludeVoid parameter allows you to exclude voided transactions from the result set. Valid entries are: <ul style="list-style-type: none"> • 'TRUE' - voided transactions are excluded • 'FALSE' - voided transactions are included
User	O	If provided, only transactions generated by users with a matching user ID will be included in the results. Matching is done using wild cards: e.g. "test" will match "test", "1test" and "1test234"
InvoiceID	O	The invoice ID is assigned by the merchant. This identifier can be used to locate a specific transaction or multiple transactions grouped under a single invoice. If provided, only transactions with a matching invoice ID will be included in the results. Matching is done using wild cards: e.g. "test" will match "test", "1test" and "1test234"
SettleFlag	O	The SettleFlag parameter allows you to choose whether settled or unsettled transactions are included in the results. Valid entries are: <ul style="list-style-type: none"> • Unused/blank returns all transactions • '1' - returns only settled transactions • '0' - return only transactions that are not yet settled
SettleMsg	O	The settlement message is an ID or message returned from the host upon settlement of a transaction. If provided, only the transaction that exactly matches the SettleMsg provided will be returned. Matching is done using wild cards: e.g. "test" will match "test", "1test" and "1test234"
SettleDt	O	If provided, only transactions that were settled on the same date will

SureGate API Documentation

		be included in the results.
TransformType	O	<p>Indicates how the result set should be formatted. Valid entries are:</p> <ul style="list-style-type: none"> • 'XML' - outputs a plain XML string • 'XSL' - uses XSL to format the XML output. If 'XSL' is selected, use the Xsl parameter to identify the XSL string that will be used to format the output. • 'DELIM' - outputs records in a delimited format. If 'DELIM' is selected, you may also pass values for the ColDelim, RowDelim, and IncludeHeader parameters.
Xsl	O	<p>This field is used only if the TransformType is XSL. If provided, the resulting dataset will be transformed using this XSL. You may pass in a URL to the XSL file, or the XSL string itself. If this field is not empty, the Web Services will try to locate the file from the URL. If that also fails, it will treat it as an XSL string. In any case, the final XSL string will be loaded and validated against the XSL schema; if it passes, then that XSL will be used for transformation. A sample predefined XSL is included with this Web Services:</p> <ul style="list-style-type: none"> • <a href="https://<PMN assigned host name>/admin/ws/TabDelim.xsl">https://<PMN assigned host name>/admin/ws/TabDelim.xsl for a tab delimited transformation
ColDelim	O	<p>This field is used only if the TransformType is DELIM. This defines the string that separates each column: e.g. a value of '@', would separate each column value with '@'</p>
RowDelim	O	<p>This field is used only if the TransformType is DELIM. This defines the string that separates each row e.g. a value of '!' would start each row with '!'</p>
IncludeHeader	O	<p>This field is used only if the TransformType is DELIM. If TRUE, then field headers will be included in the first row using the same delimiter strings; must either be TRUE or FALSE</p>
ExtData	O	<p>The ExtData parameter allows you to pass additional information to the web service that is not covered under the input parameters. ExtData values need not be placed in any particular order; however, they must be properly formatted using XML tags. Extended data in XML format. Valid values are:</p> <ul style="list-style-type: none"> • '<IMAGE_TYPE>NO_IMAGE</IMAGE_TYPE>' – Will only return transaction data that <i>does not</i> include image data (to include signature data and check images) • '<IMAGE_TYPE>ONLY_IMAGE</IMAGE_TYPE>' – Will only return transaction data that <i>includes</i> image data (to include signature data and check images) • '<IMAGE_TYPE>ALL</IMAGE_TYPE>' - will return transaction

SureGate API Documentation



		<p>with or without image data</p> <ul style="list-style-type: none">• '<code><CustomerID>CustomerID</CustomerID></code>' – specifies the customer ID value to search by. Matching is done using wild cards: e.g. "test" will match "test", "1test" and "1test234"• '<code><Amount>Amount</Amount></code>' – specifies the amount value of the transactions being searched for. In DDDDDD.CC format• '<code><RegisterNum>RegisterNum</RegisterNum></code>' - specifies the register number, originally passed with the transaction, to search by
--	--	---

SureGate API Documentation



GetOpenBatchSummary

[\[top\]](#)

Service Location:

For SOAP connections:

`https://secure.suregate.net/admin/ws/trxdetail.asmx?op=GetOpenBatchSummary`

For standard HTTPS connections:

`https://secure.suregate.net/admin/ws/trxdetail.asmx/GetOpenBatchSummary?`

Description:

This web service retrieves a payment type transaction summary of the current open batch for a specified merchant.

Developer Notes:

Date Formats: Dates entered through input parameters are automatically formatted to YYYY-MM-DDThh:mm:ss (time is in 24-hour format using Pacific Standard Time (PST) zone). Valid entry formats are:

- MM/DD/YYYY
- YYYY-MM-DD
- YYYY-MM-DDThh:mm:ss

Date Query String: The query string used to obtain transactions in a date range is constructed as follows:
(Date DT >=BeginDt) AND (Date DT <EndDt)

*Date DT is the transaction timestamp.

Input Parameters:

O = Optional, R = Required

Parameter Name	Opt/Req	Description
UserName	R	User name assigned in the payment server. The user must have an appropriate level of access within the system in order to return records.
Password	R	Password associated with the user name provided.
RPNum	R	Unique numeric value used to identify the merchant for the query. The RPNum is assigned by the gateway and acts as the primary key for the merchant table. Note: RPNum may also be called Merchant ID, Merchant Number, or Vendor Key.
BeginDt	R	Identifies the beginning date range for a group of transactions.
EndDt	R	Identifies the ending date range for a group of transactions.

SureGate API Documentation



ExtData		Currently, there are no additional parameters available through ExtData for this service.
---------	--	---

SureGate API Documentation



Reporting (TrxDetail.asmx)

[\[top\]](#)

The following response fields may be part of the return value for web services using transact.asmx operations. These web services include:

Applicable Web Services

- GetCardTrx
- GetCardTrxSummary
- GetCheckTrx
- GetOpenBatchSummary

Response Field Definitions:

Response Field	Data Type	Value Description	Remarks
Account_Type_CH	A string value up to 10 characters	Returns the card type of the transaction, e.g. VISA, Diners, EBT	
AccountNum_VC	A string value up to 200 characters	Returns the check account number	This field will be masked out with asterisk (*) characters except for the last 4 digits if the System Security Level of the user is set to 1
Acct_Num_CH	A string value up to 200 characters	Returns credit card number	This field will be masked out with asterisk (*) characters except for the last 4 digits if the System Security Level of the user is set to 1
Amount_MN	A string value representing a signed 64-bit real number	Returns the check's total amount	
Approval_Code_CH	A string value up to 50 characters	Returns the response code from the payment processor	
Auth_Amt_MN	A string value representing a signed 64-bit real number	Returns the authorized amount of a card transaction	
Authorization	A string value representing a signed 64-bit real	Returns the dollar amount of all Authorization	

SureGate API Documentation



	number	(PreAuth) transactions	
Authorization_Cnt	A string value representing a signed 32-bit integer	Returns the transaction count of all Authorization (PreAuth) transactions	
AVS_Resp_CH	A string value up to 1 character	Returns the address verification result code from the payment processor	
AVS_Resp_Txt_VC	A string value up to 25 characters	Returns the formatted response message when address verification is performed	
Batch_Number	A string value up to 10 characters	Returns the batch number for the transaction that was returned by the payment processor	Not all payment processors support returning this data element
Capture	A string value representing a signed 64-bit real number	Returns the dollar amount of all Capture transactions	This value will always return "0"
Capture_Cnt	A string value representing a signed 32-bit integer	Returns the transaction count of all Capture transactions	This value will always return "0"
Card_Info_Key	A string value representing a signed 32-bit integer	Returns the primary key of the CC_Info_T table in the database	
Cash_Back_Amt_MN	A string value representing a signed 64-bit real number	Returns the cash back amount for a debit or EBT transaction	
CheckNum_CH	A string value up to 10 characters	Returns the check number	
Cnt	A string value representing a	Returns the transaction count of	

SureGate API Documentation



	signed 32-bit integer	all transactions	
CustomerID	A string value up to 50 characters	Returns the Customer ID of a customer to which the transaction belongs to	
CV_Resp_CH	A string value up to 1 character	Returns the card verification result code from the payment processor	
CV_Resp_Txt_VC	A string value up to 25 characters	Returns the formatted response message when card verification is performed	
Date_DT	A string value representing a date and time	Returns the date on which the transaction is first made	
ERROR	A string value up to 200 characters	Returns an error message when a problem occurs during the transaction processing	
Exp_CH	A string value up to 10 characters	Returns the credit card expiration date	
ForceCapture	A string value representing a signed 64-bit real number	Returns the dollar amount of all ForceCapture (ForceAuth) transactions	
ForceCapture_Cnt	A string value representing a signed 32-bit integer	Returns the transaction count of all ForceCapture (ForceAuth) transactions	
Host_Date_CH	A string value up to 10 characters	Returns the payment processor's date on which	

SureGate API Documentation

		the transaction is performed	
Host_Ref_Num_CH	A string value up to 30 characters	Returns a number which uniquely identifies the transaction for the payment processor	
Host_Time_CH	A string value up to 10 characters	Returns the payment processor's time at which the transaction was performed	
Invoice_ID	A string value up to 100 characters	Returns the transaction's Invoice number	
IP_VC	A string value up to 15 characters	Returns the IP address of the client machine from which the transaction was processed	
Last_Update_DT	A string value representing a date and time	Returns the date and time on which the transaction is last modified	
Manual	A string value representing a Boolean value	Returns the card was swiped or not	
Merchant_Key	A string value representing a signed 32-bit integer	Returns a number which uniquely identifies a merchant	
Name_on_Card_VC	A string value up to 25 characters	Returns the name of the cardholder	
NameOnCheck_VC	A string value up to 25 characters	Returns the check payer's name on the check	
Orig_TRX_HD_Key	A string value representing a signed 32-bit integer	Returns the TRX_HD_Key on which the current transaction is based	

SureGate API Documentation

Payment_Type_ID	A string value up to 10 characters	Returns the payment type, e.g. ECHECK	
PostAuth	A string value representing a signed 64-bit real number	Returns the dollar amount of all PostAuth transactions	
PostAuth_Cnt	A string value representing a signed 32-bit integer	Returns the transaction count of all PostAuth transactions	
Processor_ID	A string value up to 10 characters	Returns the name the payment processor, e.g. Vital	
Receipt	A string value representing a signed 64-bit real number	Returns the dollar amount of all transactions with a Receipt	This value will always return "0"
Receipt_Cnt	A string value representing a signed 32-bit integer	Returns the transaction count of all transactions with a Receipt	This value will always return "0"
Ref_Number_CH	A string	Not currently used	This field is not the unique transaction identifier (also called PNRef) of the Payment Server. See the field TRX_HD_Key for the PNRef value
Register_Number_CH	A string value up to 10 characters	Returns the register number of a transaction	
RepeatSale	A string value representing a signed 64-bit real number	Returns the dollar amount of all RepeatSale (Recurring Billing/ Installment) transactions	
RepeatSale_Cnt	A string value representing a signed 32-bit integer	Returns the transaction count of all RepeatSale (Recurring Billing/ Installment) transactions	

SureGate API Documentation

Reseller_Key	A string value representing a signed 32-bit integer	Returns the primary key of the Reseller_T table in the database	
Result_CH	A string value up to 50 characters	Returns the transaction processing result, e.g. 0, 12. "0" for approval, "12" for decline	
Result_Msg_VC	A string value up to 50 characters	Returns the check transaction's processing result	
Result_Msg1_VC	A string value up to 50 characters	Returns an extra formatted response message giving more information about the processed transaction	
Result_Msg2_VC	A string value up to 50 characters	Returns an extra formatted response message giving more information about the processed transaction	
Result_Txt_VC	A string value up to 150 characters	Returns the text message of either approval or decline for the transaction processing result	
Return	A string value representing a signed 64-bit real number	Returns the dollar amount of all Return (Credit) transactions	
Return_Cnt	A string value representing a signed 32-bit integer	Returns the transaction count of all Return (Credit) transactions	
Sale	A string value representing a signed 64-bit real	Returns the dollar amount of all Sale transactions	

SureGate API Documentation

	number		
Sale_Cnt	A string value representing a signed 32-bit integer	Returns the transaction count of all Sale transactions	
Settle_Date_DT	A string value representing a date and time	Returns the date on which the transaction is settled	
Settle_Flag_CH	A string value representing a Boolean value	Returns if the transaction is settled or not	
StateCode_CH	A string value up to 10 characters	Returns the state code	
Street_CH	A string value up to 25 characters	Returns the billing street address of the credit card	
SureCharge_Amt_MN	A string value representing a signed 64-bit real number	Returns the sure charge amount of a transaction	
Tip_Amt_MN	A string value representing a signed 64-bit real number	Returns the tip amount of a transaction	
Trans_Type_ID	A string value up to 20 characters	Returns the transaction type, e.g. Sale, Credit	
Transport_Method	A string	Returns the Transportation Method	Only for use with Dial-up transactions
Transport_EndPoint	A string	Returns the Transportation's Ending Destination	Only for use with Dial-up transactions
TransitNum_VC	A string value up to 200 characters	Returns the transit/routing number	This field will be masked out with asterisk (*) characters except for the last 4 digits if the System Security Level of the user is set to 1
TRX_Card_Key	A string value representing a signed 32-bit	Returns the primary key of the TRX_Card_T table in	

SureGate API Documentation

	integer	the database	
TRX_Check_Key	A string value representing a signed 32-bit integer	Returns the primary key of the TRX_Check_T table in the database	
TRX_HD_Key	A string value representing a signed 32-bit integer	Returns the primary key of the TRX_Header_T table in the database	This field is the unique transaction identifier (also called PNRef) of the Payment Server. Use its value when submitting transactions based on a previous transaction (i.e. Voids) through the Transact.asmx Web Service
TRX_Settle_Key	A string value representing a signed 32-bit integer	Returns the primary key of the TRX_Settle_T table in the database	
TRX_Settle_Msg_VC	A string value up to 25 characters	Returns the transaction's settlement message	
Type_CH	A string value up to 10 characters	Returns the credit card type, e.g. VISA, MASTERCARD	
User_Name_VC	A string value up to 25 characters	Returns the username, under which the transactions were made	
Void_Flag_CH	A string value representing a Boolean value	Returns the transaction is voided or not	
Zip_CH	A string value up to 10 characters	Returns the billing zip code of the credit card	
Auth_Amt_MN	A string value representing a signed 64-bit real number	Returns the authorized amount of a card transaction	
Authorization	A string value representing a signed 64-bit real number	Returns the dollar amount of all Authorization (PreAuth) transactions	

SureGate API Documentation

Authorization_Cnt	A string value representing a signed 32-bit integer	Returns the transaction count of all Authorization (PreAuth) transactions	
AVS_Resp_CH	A string value up to 1 character	Returns the address verification result code from the payment processor	
AVS_Resp_Txt_VC	A string value up to 25 characters	Returns the formatted response message when address verification is performed	
Batch_Number	A string value up to 10 characters	Returns the batch number for the transaction that was returned by the payment processor	Not all payment processors support returning this data element
Capture	A string value representing a signed 64-bit real number	Returns the dollar amount of all Capture transactions	This value will always return "0"
Capture_Cnt	A string value representing a signed 32-bit integer	Returns the transaction count of all Capture transactions	This value will always return "0"
Card_Info_Key	A string value representing a signed 32-bit integer	Returns the primary key of the CC_Info_T table in the database	
Cash_Back_Amt_MN	A string value representing a signed 64-bit real number	Returns the cash back amount for a debit or EBT transaction	
CheckNum_CH	A string value up to 10 characters	Returns the check number	
Cnt	A string value representing a signed 32-bit integer	Returns the transaction count of all transactions	

SureGate API Documentation

CustomerID	A string value up to 50 characters	Returns the Customer ID of a customer to which the transaction belongs to	
CV_Resp_CH	A string value up to 1 character	Returns the card verification result code from the payment processor	
CV_Resp_Txt_VC	A string value up to 25 characters	Returns the formatted response message when card verification is performed	
Date_DT	A string value representing a date and time	Returns the date on which the transaction is first made	
ERROR	A string value up to 200 characters	Returns an error message when a problem occurs during the transaction processing	
Exp_CH	A string value up to 10 characters	Returns the credit card expiration date	
ForceCapture	A string value representing a signed 64-bit real number	Returns the dollar amount of all ForceCapture (ForceAuth) transactions	
ForceCapture_Cnt	A string value representing a signed 32-bit integer	Returns the transaction count of all ForceCapture (ForceAuth) transactions	
Host_Date_CH	A string value up to 10 characters	Returns the payment processor's date on which the transaction is performed	

SureGate API Documentation

Host_Ref_Num_CH	A string value up to 30 characters	Returns a number which uniquely identifies the transaction for the payment processor	
Host_Time_CH	A string value up to 10 characters	Returns the payment processor's time at which the transaction was performed	
Invoice_ID	A string value up to 100 characters	Returns the transaction's Invoice number	
IP_VC	A string value up to 15 characters	Returns the IP address of the client machine from which the transaction was processed	
Last_Update_DT	A string value representing a date and time	Returns the date and time on which the transaction is last modified	
Manual	A string value representing a Boolean value	Returns the card was swiped or not	
Merchant_Key	A string value representing a signed 32-bit integer	Returns a number which uniquely identifies a merchant	
Name_on_Card_VC	A string value up to 25 characters	Returns the name of the cardholder	
NameOnCheck_VC	A string value up to 25 characters	Returns the check payer's name on the check	
Orig_TRX_HD_Key	A string value representing a signed 32-bit integer	Returns the TRX_HD_Key on which the current transaction is based	
Payment_Type_ID	A string value up to 10 characters	Returns the payment type, e.g.	

SureGate API Documentation

		ECHECK	
PostAuth	A string value representing a signed 64-bit real number	Returns the dollar amount of all PostAuth transactions	
PostAuth_Cnt	A string value representing a signed 32-bit integer	Returns the transaction count of all PostAuth transactions	
Processor_ID	A string value up to 10 characters	Returns the name the payment processor, e.g. Vital	
Receipt	A string value representing a signed 64-bit real number	Returns the dollar amount of all transactions with a Receipt	This value will always return "0"
Receipt_Cnt	A string value representing a signed 32-bit integer	Returns the transaction count of all transactions with a Receipt	This value will always return "0"
Ref_Number_CH	A string	Not currently used	This field is not the unique transaction identifier (also called PNRef) of the Payment Server. See the field TRX_HD_Key for the PNRef value
Register_Number_CH	A string value up to 10 characters	Returns the register number of a transaction	
RepeatSale	A string value representing a signed 64-bit real number	Returns the dollar amount of all RepeatSale (Recurring Billing/ Installment) transactions	
RepeatSale_Cnt	A string value representing a signed 32-bit integer	Returns the transaction count of all RepeatSale (Recurring Billing/ Installment) transactions	
Reseller_Key	A string value representing a	Returns the primary key of the Reseller_T	

SureGate API Documentation

	signed 32-bit integer	table in the database	
Result_CH	A string value up to 50 characters	Returns the transaction processing result, e.g. 0, 12. "0" for approval, "12" for decline	
Result_Msg_VC	A string value up to 50 characters	Returns the check transaction's processing result	
Result_Msg1_VC	A string value up to 50 characters	Returns an extra formatted response message giving more information about the processed transaction	
Result_Msg2_VC	A string value up to 50 characters	Returns an extra formatted response message giving more information about the processed transaction	
Result_Txt_VC	A string value up to 150 characters	Returns the text message of either approval or decline for the transaction processing result	
Return	A string value representing a signed 64-bit real number	Returns the dollar amount of all Return (Credit) transactions	
Return_Cnt	A string value representing a signed 32-bit integer	Returns the transaction count of all Return (Credit) transactions	
Sale	A string value representing a signed 64-bit real number	Returns the dollar amount of all Sale transactions	
Sale_Cnt	A string value	Returns the	

SureGate API Documentation

	representing a signed 32-bit integer	transaction count of all Sale transactions	
Settle_Date_DT	A string value representing a date and time	Returns the date on which the transaction is settled	
Settle_Flag_CH	A string value representing a Boolean value	Returns if the transaction is settled or not	
StateCode_CH	A string value up to 10 characters	Returns the state code	
Street_CH	A string value up to 25 characters	Returns the billing street address of the credit card	
SureCharge_Amt_MN	A string value representing a signed 64-bit real number	Returns the sure charge amount of a transaction	
Tip_Amt_MN	A string value representing a signed 64-bit real number	Returns the tip amount of a transaction	
Total_Amt_MN	A string value representing a signed 64-bit real number	Returns the total amount of a transaction	
Trans_Type_ID	A string value up to 20 characters	Returns the transaction type, e.g. Sale, Credit	
Transport_Method	A string	Returns the Transportation Method	Only for use with Dial-up transactions
Transport_EndPoint	A string	Returns the Transportation's Ending Destination	Only for use with Dial-up transactions
TransitNum_VC	A string value up to 200 characters	Returns the transit/routing number	This field will be masked out with asterisk (*) characters except for the last 4 digits if the System Security Level of the user is set to 1
TRX_Card_Key	A string value	Returns the	

SureGate API Documentation

	representing a signed 32-bit integer	primary key of the TRX_Card_T table in the database	
TRX_Check_Key	A string value representing a signed 32-bit integer	Returns the primary key of the TRX_Check_T table in the database	
TRX_HD_Key	A string value representing a signed 32-bit integer	Returns the primary key of the TRX_Header_T table in the database	This field is the unique transaction identifier (also called PNRef) of the Payment Server. Use its value when submitting transactions based on a previous transaction (i.e. Voids) through the Transact.asmx Web Service
TRX_Settle_Key	A string value representing a signed 32-bit integer	Returns the primary key of the TRX_Settle_T table in the database	
TRX_Settle_Msg_VC	A string value up to 25 characters	Returns the transaction's settlement message	
Type_CH	A string value up to 10 characters	Returns the credit card type, e.g. VISA, MASTERCARD	
User_Name_VC	A string value up to 25 characters	Returns the username, under which the transactions were made	
Void_Flag_CH	A string value representing a Boolean value	Returns the transaction is voided or not	
Zip_CH	A string value up to 10 characters	Returns the billing zip code of the credit card	

SureGate API Documentation



Processing Services (transact.asmx)

[\[top\]](#)

The following response fields may be part of the return value for web services using transact.asmx operations. These web services include:

Applicable Web Services

- GetInfo
- ProcessCheck
- ProcessCreditCard
- ProcessDebitCard
- ProcessEBTCard
- ProcessGiftCard
- ProcessSignature

Response Field Definitions:

Response Field	Data Type	Value Description	Remarks
AuthCode	A string value up to 50 characters	Returns the transaction result code from the payment processor	This value can be either an approval code, for approved transactions, or an error code, for declined transactions
ExtData	A string value up to 500 characters	Returns extra data from the processed transaction	The value of ExtData will be in a specific format. The format typically consists of the name of the data field, an equal sign, and then the value for the data field. Multiple data fields are separated with a comma. See the "Web Service ExtData Response Field Data Elements" for full description of data elements that can be returned. The following is an example of the format: <i>ExtName1=ExtValue1,ExtName2=ExtValue2</i>
GetAVSResult	A string value up to 1 character	Returns the overall address verification result code from the payment processor	When programmatically validating an AVS Result, this value should ALWAYS be used instead of any formatted response message describing the result
GetAVSResultTXT	A string value	Returns the	Do NOT use this when programmatically validating a



SureGate API Documentation

	up to 25 characters	formatted response message when address verification is performed	transaction's AVS result; please see GetAVSResult field
GetCommercialCard	A string value representing a Boolean value	Returns the payment processor's response indicator that specifies if the card is a commercial card	This value is only applicable to credit card transactions. The card verification number is typically printed on the back of the card and not embossed on the front. It is used as an extra authentication method for "card not present" transactions. When programmatically validating a CV Result, this value should ALWAYS be used instead of any formatted response message describing the result
GetCVResult	A string value up to 1 character	Returns the card verification result code from the payment processor	This value is only applicable to credit card transactions. The card verification number is typically printed on the back of the card and not embossed on the front. It is used as an extra authentication method for "card not present" transactions. When programmatically validating a CV Result, this value should ALWAYS be used instead of any formatted response message describing the result
GetCVResultTXT	A string value up to 25 characters	Returns the formatted response message when card verification is performed	This value is only applicable to credit card transactions. Do NOT use this when programmatically validating a transaction's CV result; please see GetCVResult field
GetStreetMatchTXT	A string value up to 25 characters	Returns the formatted response message when street number address verification	This value will typically be "Match", for correctly matching the street address, or "No Match", for an incorrect street address

SureGate API Documentation



		is performed	
GetZipMatchTXT	A string value up to 25 characters	Returns the formatted response message when zip code address verification is performed	This value will typically be "Match", for correctly matching the zip code, or "No Match", for an incorrect zip code
HostCode	A string value up to 30 characters	Typically returns a number which uniquely identifies the transaction in the payment processor	This value may not be returned for all payment processors
Message	A string value up to 50 characters	Returns a formatted response message concerning the processed transaction	This value will typically be "APPROVAL", for approved transactions, or an error message, for declined transactions. Do NOT use this when programmatically validating a transaction's result; please see Result field below
Message1	A string value up to 50 characters	Returns an extra formatted response message giving more information about the processed transaction	The Payment Server will only populate this field when there is applicable information from the payment processor to return

SureGate API Documentation

Message2	A string value up to 50 characters	Returns an extra formatted response message giving more information about the processed transaction	The Payment Server will only populate this field when there is applicable information from the payment processor to return
PNRef	A string value representing a signed 32-bit integer	Returns a number which uniquely identifies the transaction in the payment gateway	
RespMSG	A string value up to 50 characters	Returns the response message concerning the processed transaction	This value is typically either Approved or Declined. Do NOT use this when programmatically validating a transaction's result; please see Result field below
Result	A string value representing a signed 32-bit integer	Returns the transaction result code from the payment gateway which signifies the result of the transaction (i.e. approved, decline, etc.)	When programmatically validating a transaction's result, this value should ALWAYS be used instead of any response message describing the result. See the "Result Response Fields Definitions" section for a full list of result values and descriptions

SureGate API Documentation



SureGate API Documentation



Result Response Field Definition

[\[Top\]](#)

Response Field Definitions

Value	Description
-100	Transaction NOT Processed; Generic Host Error
0	Approved
1	User Authentication Failed
2	Invalid Transaction
3	Invalid Transaction Type
4	Invalid Amount
5	Invalid Merchant Information
7	Field Format Error
8	Not a Transaction Server
9	Invalid Parameter Stream
10	Too Many Line Items
11	Client Timeout Waiting for Response
12	Decline
13	Referral
14	Transaction Type Not Supported In This Version
19	Original Transaction ID Not Found
20	Customer Reference Number Not Found
22	Invalid ABA Number
23	Invalid Account Number
24	Invalid Expiration Date
25	Transaction Type Not Supported by Host
26	Invalid Reference Number
27	Invalid Receipt Information
28	Invalid Check Holder Name
29	Invalid Check Number
30	Check DL Verification Requires DL State
40	Transaction did not connect (to NCN because SecureNCIS is not running on the web server)
50	Insufficient Funds Available
99	General Error

SureGate API Documentation



100	Invalid Transaction Returned from Host
101	Timeout Value too Small or Invalid Time Out Value
102	Processor Not Available
103	Error Reading Response from Host
104	Timeout waiting for Processor Response
105	Credit Error
106	Host Not Available
107	Duplicate Suppression Timeout
108	Void Error
109	Timeout Waiting for Host Response
110	Duplicate Transaction
111	Capture Error
112	Failed AVS Check
113	Cannot Exceed Sales Cap
1000	Generic Host Error
1001	Invalid Login
1002	Insufficient Privilege or Invalid Amount
1003	Invalid Login Blocked
1004	Invalid Login Deactivated
1005	Transaction Type Not Allowed
1006	Unsupported Processor
1007	Invalid Request Message
1008	Invalid Version
1010	Payment Type Not Supported
1011	Error Starting Transaction
1012	Error Finishing Transaction
1013	Error Checking Duplicate
1014	No Records To Settle (in the current batch)
1015	No Records To Process (in the current batch)

SureGate API Documentation



ExtData Field Definitions

[\[Top\]](#)

Response Field	Description	Notes
BatchNum	Current batch number for transactions, settlement, and batch inquiries.	Not all payment processors support returning this data element.
CardType	Credit card type (VISA, MASTERCARD, etc) or payment method (Debit, EBT, or EGC) for card-based payments.	This value is not returned for Check/ACH payments.
InvNum	Invoice number for the transaction that was originally sent in the request to the Payment Server.	

SureGate API Documentation



AVS Response Field Definitions

[\[top\]](#)

Value	Description
X	Exact: Address and nine-digit Zip match
Y	Yes: Address and five-digit Zip match
A	Address: Address matches, Zip does not
Z	5-digit Zip: 5-digit Zip matches, address doesn't
W	Whole Zip: 9-digit Zip matches, address doesn't
N	No: Neither address nor Zip matches
U	Unavailable: Address information not available
G	Unavailable: Address information not available for international transaction
R	Retry: System unavailable or time-out
E	Error: Transaction unintelligible for AVS or edit error found in the message that prevents AVS from being performed
S	Not Supported: Issuer doesn't support AVS service
B	Street Match: Street addresses match for international transaction, but postal code doesn't
C	Street Address: Street addresses and postal code not verified for international transaction
D	Match: Street addresses and postal codes match for international transaction
I	Not Verified: Address Information not verified for International transaction
M	Match: Street addresses and postal codes match for international transaction
P	Postal Match: Postal codes match for international transaction, but street address doesn't
0	No response sent
5	Invalid AVS response

SureGate API Documentation



CV Response Field Definitions

[\[top\]](#)

Value	Description
M	CVV2/CVC2/CID Match
N	CVV2/CVC2/CID No Match
P	Not Processed
S	Issuer indicates that the CV data should be present on the card, but the merchant has indicated that the CV data is not present on the card.
U	Unknown / Issuer has not certified for CV or issuer has not provided Visa/MasterCard with the CV encryption keys.
X	Server Provider did not respond

SureGate API Documentation



Technical Support

[\[Top\]](#)

If you are experiencing an issue that you are unable to resolve, please contact us using the below customer service information.

SureGate, LLC

115 Pelham Commons Blvd
Greenville, SC 29615

Telephone: 877-298-0455

Email: info@suregate.net

NOTE: Please ensure you provide your merchant ID/Business name when contacting us