



GatewayRequest

PHP Programmers Guide

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GatewayRequest Package

package GatewayRequest

This class encapsulates a credit card transaction request that is submitted to the RocketGate network.

Details of the transaction, i.e. customer ID, amount, etc., are embedded in the GatewayRequest object by the client application prior to calling a GatewayService transaction method. The following example illustrates the use of the GatewayRequest object. See additional examples in Appendix A.

```
include ("GatewayService.php");

//
//   Fill in the fields of the Merchant request object.
//
$request = new GatewayRequest();
$request->Set(GatewayRequest::MERCHANT_ID(), "21");
$request->Set(GatewayRequest::MERCHANT_PASSWORD(), "password");
$request->Set(GatewayRequest::MERCHANT_CUSTOMER_ID(), "1234");
$request->Set(GatewayRequest::MERCHANT_ACCOUNT(), "1");

$request->Set(GatewayRequest::AMOUNT(), "10.99");
$request->Set(GatewayRequest::CARDNO(), "378200000000005");
$request->Set(GatewayRequest::EXPIRE_MONTH(), "08");
$request->Set(GatewayRequest::EXPIRE_YEAR(), "2007");

... Create GatewayResponse object...
... Create GatewayService object...

$results = $service->PerformPurchase($request, $response);
if (results) {                                     // Did it succeed?
    ... Process success results...
} else {
    ... Process failed transaction...
}
```

Method Summary

Set(member, value)

Set the value of a named element in the request object.

Field Summary

ACCOUNT_NO

Checking/Savings Account number.

AFFILIATE

Merchant defined affiliate code.

AMOUNT

Value of transaction.

AVS_CHECK

Address Verification enabled/disabled/ignored.

BILLING_ADDRESS

Customer billing address.

BILLING_CITY

Customer billing city.

BILLING_COUNTRY

Customer billing country

BILLING_STATE

Customer billing state

BILLING_TYPE

Optional designator for the type of billing operation.

BILLING_ZIPCODE

Customer billing zip code

CAPTURE_DAYS

Days after an Auth the Capture should be performed

CARD_HASH

One-way hash of customer card number

CARDNO

Customer card number

CLONE_CUSTOMER_RECORD

Clone a customer to a new customer record

CLONE_TO_CUSTOMER_ID

ID of the new customer record

CURRENCY

Currency of transaction.

CUSTOMER_FIRSTNAME

Customer's first name

CUSTOMER_LASTNAME

Customer's last name



CUSTOMER_PHONE_NO Customer's phone number
CUSTOMER_PASSWORD Customer's password
CVV2 Card CVV2 number.
CVV2_CHECK CVV2 checking enabled/disabled/ignored.
EMAIL Customer email address.
EXPIRE_MONTH Customer card expiration month.
EXPIRE_YEAR Customer card expiration year.
GENERATE_POSTBACK Generate a postback for this request
IOVATION_BLACK_BOX Iovation device fingerprinting black box data
IOVATION_RULE Iovation business rule id used to obtain a recommendation
IPADDRESS Customer IP address
MERCHANT_ACCOUNT Merchant account to which transaction is to be applied.
MERCHANT_CUSTOMER_ID Customer ID of cardholder in merchant's internal systems.
MERCHANT_DESCRIPTOR Merchant name to be displayed on cardholder statement. (Overrides default descriptor.)
MERCHANT_DESCRIPTOR_CITY Merchant phone/city to be displayed on cardholder statement. (Overrides default phone/city.)
MERCHANT_INVOICE_ID Invoice or transaction ID applied to transaction by merchant's internal systems.
MERCHANT_ID Merchant's RocketGate identification number.
MERCHANT_PASSWORD Merchant's RocketGate password.
MERCHANT_PRODUCT_ID Optional product identification number
MERCHANT_SITE_ID Optional site identification number.
OMIT_RECEIPT Optionally disable email receipts.
PARTIAL_AUTH_FLAG



Specifies whether a partial authorization is acceptable for the Auth-only or Purchase transaction.
PAYINFO_TRANSACT_ID A token representing a customers credit card payment info. Used as alternative approach to CARD_HASH or PAY_HASH.
REBILL_AMOUNT If recurring charge, amount of recurring charges.
REBILL_COUNT The number of times to rebill before automatically cancelling.
REBILL_END_DATE Scheduled end date for recurring charges.
REBILL_FREQUENCY If recurring charge, frequency of recurring charge (daily, monthly, quarterly, annually)
REBILL_RESUME Resubilling on suspended subscription.
REBILL_START If recurring charge, number of days after initial transaction until rebilling begins.
REBILL_SUSPEND Suspend Subscription.
ROUTING_NO Checking/Savings Routing Number.
SAVINGS_ACCOUNT Checking or Savings account indicator for ACH transactions
SCRUB Fraud (Activity, NegDB, and Profile) scrubbing enabled/disabled/ignored.
SCRUB_ACTIVITY Fraud Activity scrubbing enabled/disabled/ignored.
SCRUB_NEGDB Fraud Negative Database scrubbing enabled/disabled/ignored.
SCRUB_PROFILE Fraud Suspicious Profiles scrubbing enabled/disabled/ignored.
SUB_MERCHANT_ID Sub Merchant ID used for Payment Facilitators
TRANSACT_ID ID number of transaction being voided, credited, or ticketed.
UDF01 User data field 1
UDF02 User data field 2
USERNAME Customer username
XSELL_MERCHANT_ID Xsell Merchant's RocketGate identification number.
XSELL_CUSTOMER_ID Xsell Customer ID of cardholder in merchant's internal systems.



XSELL_REFERENCE_XACT

Transaction ID associated with MERCHANT CUSTOMER ID

Method Details

Set

Set(member, value)

Set the value of a named element in the GatewayRequest object. The valid list of elements that can be set is outlined in the Field Summary.

Parameters:

member – Element to be set in the GatewayRequest object. See the Field Summary for the list of members that can be set.

Value – Value to which *member* is to be set.

Field Details

ACCOUNT_NO

Customer's checking/savings account number used in ACH transactions.

Either the ACCOUNT_NO or CARD_HASH element is required in all ACH purchase transactions. If both the ACCOUNT_NO and CARD_HASH elements are used in the same request, the ACCOUNT_NO element takes precedent.

AFFILIATE

This argument carries a merchant defined affiliate code. This data is displayed in a number of reports, such as the chargeback and sales reports, and in the customer details section of the support tools.

This element is optional and is provided as a convenience to the merchant. The maximum length for this field is 32 characters.

AMOUNT



Value of the transaction. The element is required for PerformPurchase and PerformAuthOnly and must be between 1.00 and 999,999.99 inclusive. Additionally, \$0 AuthOnly (card validation) when available through the back end processor.

This value can be omitted for void and credit transactions as well as credit card ticket transactions if the amount is the same as the original purchase or auth-only transaction.

AVS_CHECK

Turn on/off Address Verification. By default, Address Verification is off. The following table summarizes the valid values for this element.

Value	Meaning
YES	Address Verification is to be performed.
NO	Address Verification is not to be performed.
IGNORE	Perform Address Verification and return the result code, but do not take action based upon results.

BILLING_ADDRESS

Customer's billing street address. This element is optional, but should be provided if Address Verification is enabled.

Maximum length for this field is 128 characters.

BILLING_CITY

Customer's billing city. This element is optional, but should be provided if Address Verification is enabled.

Maximum length for this field is 32 characters.

BILLING_COUNTRY

Customer's billing country. This element is optional, but should be provided if Address Verification is enabled.



Maximum length for this field is 2 characters.

BILLING_STATE

Customer's billing state. This element is optional, but should be provided if Address Verification is enabled.

Maximum length for this field is 32 characters.

BILLING_TYPE

Indicator for type of billing operation. This field is optional and can contain any single character value. By convention, the RocketGate system uses the following indicators.

- One time non-membership sale – S (This is the default)
- Initial membership billing/signup – I
- Trial membership – T
- Conversion of trial to full membership – C
- Instant upgrade of trial membership to full membership – U
- Standard rebill of membership – R

Maximum length for this field is 1 character.

BILLING_ZIPCODE

Customer's billing zip code. This element is optional, but should be provided if Address Verification is enabled.

Maximum length for this field is 32 characters.

BROWSER_ACCEPT_HEADER

This field is only used for 3D Secure transactions and is required for merchant who have configured the "bypass" processing flow. See 3D-Secure Programmers Guide.

This parameter is expected to hold the "Accept" value retrieved from the headers submitted by the cardholder's browser.

BROWSER_USER_AGENT



This field is only used for 3D Secure transactions and is required for merchants who have configured the “bypass” processing flow. See 3D-Secure Programmers Guide.

This parameter is expected to hold the “User-Agent” value retrieved from the headers submitted by the cardholder’s browser.

CAPTURE_DAYS

When used with an authorization transaction, this parameter specifies how many days after the authorization a capture should be performed. As an example, if a CAPTURE_DAYS value of 3 is used with an authorization performed on 2015-07-20 15:00:00, the capture will be scheduled for 2015-07-23 15:00:00.

This can be used for One Time Sales, Trial and Regular Subscription Joins.

For additional info: <https://support.rocketgate.com> under Processing->Gateway->Delayed capture via CAPTURE_DAYS param

Valid values for this are 1 through 5

CARD_HASH

One-way hash representing a customer’s credit card number.

A one-way hash value representing a card number is returned for each credit card transaction. This hash value can be submitted in subsequent transactions in place of other credit card elements, i.e. CARD_NO, EXPIRATION_MONTH, EXPIRATION_YEAR.

To be valid, the CARD_HASH element must be used in conjunction with the MERCHANT_CUSTOMER_ID element. When the CARD_HASH element is used, it is not necessary to submit values for the EXPIRATION_MONTH and EXPIRATION_YEAR elements. However, values can be submitted for these elements in order to update the expiration date of the associated card in the RocketGate database..

Either the CARD_HASH or CARD_NO element is required in all credit card purchase or auth-only transactions. If both the CARD_NO and CARD_HASH elements are used in the same request, the CARD_NO element takes precedent.

CARDNO



Customer's credit card number.

Either the CARD_NO or CARD_HASH element is required in all credit card purchase or auth-only transactions. If both the CARD_NO and CARD_HASH elements are used in the same request, the CARD_NO element takes precedent.

CLONE_CUSTOMER_RECORD

This is a flag value. It must be set to TRUE, ON, YES, or 1 to enable the cloning function.

When enabled, the customer data (card, address, etc.) identified by MERCHANT_CUSTOMER_ID will be copied and used to make a purchase as the customer specified by CLONE_TO_CUSTOMER_ID. In the process, a new customer record will be created for CLONE_TO_CUSTOMER_ID.

The system checks to ensure the MERCHANT_CUSTOMER_ID actually exists. It also verifies that the value of CLONE_TO_CUSTOMER_ID is not the same as MERCHANT_CUSTOMER_ID.

CLONE_TO_CUSTOMER_ID

This is the id of the customer that is to be created. If the purchase or auth-only transaction is successful, a new customer record will be created for CLONE_TO_CUSTOMER_ID. If the transaction does not succeed, no new record is created.

If the parameters specified in CLONE_CUSTOMER_RECORD and/or CLONE_TO_CUSTOMER_ID are invalid, error code 451 will be returned.

CURRENCY

Currency of the transaction that is to be processed against the user's credit card. This element is optional. If this element is omitted, the transaction will be conducted in US Dollars (USD).

For a complete list of valid currency codes, please refer to the document entitled "Currency Codes for Multi-currency Processing".

CUSTOMER_FIRSTNAME



Cardholder's first name. This element is optional.

Maximum length for this field is 64 characters.

CUSTOMER_LASTNAME

Cardholder's first name. This element is optional.

Maximum length for this field is 64 characters.

CUSTOMER_PASSWORD

Cardholder's password. This element is optional and typically only provided when RocketGate is providing customer support services which involve password updates.

CUSTOMER_PHONE_NO

Cardholder's phone number. This element is optional.

CVV2

CVV2 value from customer's credit card. This element is optional.

CVV2_CHECK

Turn on/off CVV2 Verification. This element is optional. By default, CVV2 Verification is off. The following table summarizes the valid values for this element.

Value	Meaning
YES	CVV2 Verification is to be performed.
NO	CVV2 Verification is not to be performed.
IGNORE	Perform CVV2 Verification and return the result code, but do not take action based upon results.



EMAIL

Customer's email address. This element is optional.

EXPIRATION_MONTH

Expiration month on customer's credit card. Must be an integer value in the range of 1 through 12.

This element is required for all credit card transactions in which the CARDNO element is used. This element is optional for credit card transaction that use the CARD_HASH element.

EXPIRATION_YEAR

Expiration year on customer's credit card. Must be an integer value in the range 7 through 99, or 2007 through 2099.

This element is required for all credit card transactions in which the CARDNO element is used. This element is optional for credit card transaction that use the CARD_HASH element.

GENERATE_POSTBACK

Generate a postback from RocketGate to Merchant's pre-configured postback URL. This is applicable to Void/Credits, Rebills, and Xsell requests. By default Gateway transactions do not receive postbacks.

Set to TRUE, ON, or 1 to enable.

Transactions flagged as joins or trials will be sent to the XsellPostbackURL. Any other type of transaction will be sent to the RebillPostbackURL.

IOVATION_BLACK_BOX



Iovation device fingerprinting black box data from ReputationShield client. This element is optional.

IOVATION_RULE

Iovation business rule id used to obtain a recommendation. This element is optional.

IPADDRESS

Customer's IP address. This element is optional.

Maximum length for this field is 15 characters.

MERCHANT_ACCOUNT

Merchant account to which transaction is to be applied. This is a merchant account number assigned to an account within the RocketGate network.

This element is optional. If this element is omitted, the RocketGate network will assign the transaction to an appropriate account based upon the card type and a load balancing algorithm.

MERCHANT_CUSTOMER_ID

Customer ID assigned to the customer within the merchant's internal systems. This argument is required for recurring billing and is required for credit card transaction that use the CARD_HASH element. This element is optional in all other transactions is provided as a convenience to the merchant.

Maximum length for this field is 36 characters.

MERCHANT_DESCRIPTOR

Merchant name to be displayed on cardholder's statement. The value provided overrides the default descriptor provided by the bank and/or processor.

Note: This feature is not supported by all banks or processors. Please check with RocketGate customer service before using.



Maximum length for this field is 40 characters.

MERCHANT_DESCRIPTOR_CITY

Merchant phone/city to be displayed on cardholder's statement. The value provided overrides the default phone/city provided by the bank and/or processor.

Note: This feature is not supported by all banks or processors. Please check with RocketGate customer service before using.

Maximum length for this field is 13 characters.

MERCHANT_INVOICE_ID

This argument carries an invoice or transaction ID assigned to the transaction within the merchant's internal systems. This argument is required for recurring billing and is used as an ID for rebill and cancel postbacks allowing you to differentiate between various subscriptions a customer may have. Otherwise for non-recurring billing it is optional and is provided as a convenience to the merchant. We recommend passing this value though as it can be very helpful in reconciling transactions.

The maximum length of this argument is 36 characters.

MERCHANT_ID

Identification number assigned to the merchant within the RocketGate network. This element is required in every transaction.

MERCHANT_PASSWORD

Validation password assigned to the merchant within the RocketGate network. This element is required in every transaction.

MERCHANT_PRODUCT_ID



Optional identification value used to identify the product of a transaction within RocketGate reports. For example, many reports allow you to group sales by Product ID. This string value is optional and is provided as a convenience to the merchant.

The maximum length of this argument is 36 characters.

MERCHANT_SITE_ID

Optional identification number used to identify the source of a transaction within RocketGate reports. For example, many reports allow you to group sales by Site ID. This integer value is optional and is provided as a convenience to the merchant.

If specified, the Site ID number must be an integer value from 0 to 50000.

OMIT_RECEIPT

This argument is used to disable the optional Email Receipts functionality. Email receipts must first be setup in Mission Control at which point all transactions receive receipts. When set to TRUE, ON, or 1, this will disable sending the receipt.

PARTIAL_AUTH_FLAG

Specifies whether a partial authorization is acceptable for the Auth-only or Purchase transaction. When enabled, a transaction can be completed successfully for an amount that is less than the amount requested. When disabled, a transaction must be completed for the full requested amount in order to be successful. In either case, the actual settled amount is returned in the response in the SETTLED_AMOUNT parameter.

Flag values of TRUE, ON, YES, or 1 enable the use of partial authorizations. Any other value disables partial authorizations. By default, partial authorizations are disabled.

Note: This feature is only currently supported with TSYS based merchant accounts.

PAYINFO_TRANSACT_ID

One-way hash representing a customer's credit card number, ach, or debit account.



This parameter can be used in place of the CARD_HASH parameter on sale and authorization transactions.

When used, the PAYINFO_TRANSACT_ID should be populated with the transaction ID from a previous successful transaction. This transaction ID will be used to retrieve and populate the card data similar to the CARD_HASH parameter.

If the value provided for the PAYINFO_TRANSACT_ID is invalid, error 453 – INVALID_PAYINFO_TRANSACT_ID is returned.

Note that if the transaction contains a CARDNO value, ACCOUNT_NO value, CARD_HASH value, or PAY_HASH value, the PAYINFO_TRANSACT_ID parameter is ignored.

REBILL_AMOUNT

This argument is used to indicate that the transaction is a recurring charge. The argument specifies the dollar value of the subsequent charges. This value may be different than the initial amount specified in AMOUNT above. This argument is optional.

REBILL_COUNT

This argument is used to indicate that the number of times to rebill before automatically canceling. Rebill-count=0 is a membership that does not recur. This argument is optional.

REBILL_END_DATE

This argument is used to indicate that the transaction is a recurring charge. The argument specifies the date at which recurring billing is scheduled to terminate. The date value must be specified in **YYYY-MM-DD** format.

This argument is optional. If REBILL_END_DATE argument is omitted, rebilling will continue until it is cancelled due to a customer request or billing failure, e.g. expired card.

When used with PeformRebillUpdate() or PeformRebillCancel(), setting REBILL_END_DATE=CLEAR indicates that a previous cancel request should be cleared.

REBILL_FREQUENCY



This argument is used to indicate that the transaction is a recurring charge. The argument specifies the frequency of the recurring charges. The following table summarizes the valid values for this argument. This argument is optional. A numeric value specifies the frequency of rebilling in DAYS (For example `rebill-freq=7` would specify a subscription that would renew every 7 days).

Value	Meaning
MONTHLY	Rebiling occurs once per month.
QUARTERLY	Rebiling occurs once per quarter, i.e. 3 months
SEMI- ANNUALLY	Rebiling occurs semi-annually, i.e. 6 months
ANNUALLY	Rebiling occurs annually.
LIFE	Lifetime Membership
Numeric Value	Rebiling occurs once per # of days specified. Max value 550

REBILL_RESUME

Used with the `PerformRebillUpdate` function. When set to `TRUE`, causes the rebilling to resume for the subscription identified by the `MERCHANT_INVOICE_ID` parameter.

The `REBILL_START` parameter determines when the next rebill operation will be performed. Following is a list of valid values and the behavior.

Value	Meaning
AUTO	Causes rebilling to be scheduled as an offset from the current day. For example, if a membership is scheduled for monthly billing, the next rebill will occur one month from the current day, i.e. the day the <code>REBILL_RESUME</code> is executed.
TODAY or NOW	Causes the next rebilling to be executed immediately.
Numeric value	Causes rebilling to be scheduled “X” number of days from the current day. For example, if the value 5 is provided, the next rebill will occur 5 days from the current day.
	If the <code>REBILL_START</code> parameter is omitted, the rescheduling defaults to <code>AUTO</code> .

REBILL_START



If the transaction is a recurring charge, this argument specifies the number of days after initial transaction before rebilling begins. This argument can be used to control trial periods, e.g. begin rebilling after an initial three day period.

This argument is optional. If this argument is omitted, the value provided for `REBILL_FREQUENCY` determines the starting date for rebilling. If set, the argument must be greater than 0 and less than 550. It sets a value between 1 day and 18 months.

If the transaction is an update to an existing recurring charge and the desire is to automatically increment the `REBILL_DATE` to today + the configured/requested `REBILL_FREQUENCY`, this argument can be set to "AUTO". See: Full/Instant Upgrade in Appendix A for an example.

When updating an existing subscription via `PerformRebillUpdate()`, the `REBILL_START` value can also be set to a timestamp in `YYYY-MM-DD HH:MM:SS` format.

REBILL_SUSPEND

Used with the `PerformRebillUpdate` function. When set to `TRUE`, causes the subscription identified by the `MERCHANT_INVOICE_ID` parameter to be suspended. When a subscription is suspended, no rebilling is performed.

ROUTING_NO

Customer's checking/savings routing number used in ACH transactions.

SAVINGS_ACCOUNT

Boolean value that indicates if this account is a Checking or Savings account. Default value is `FALSE`.

Value	Meaning
<code>FALSE</code>	Account is a Checking Account.
<code>TRUE</code>	Account is a Savings Account



SCRUB

Turn on/off fraud all scrubbing (Activity, NegDB, and Profile) in a single setting.

SCRUB element takes precedent over SCRUB_ACTIVITY, SCRUB_NEGDB, and SCRUB_PROFILE. If the **SCRUB** element is present in the gateway request, it controls all three scrubs.

By default, fraud scrubbing is not performed. The following table summarizes the valid values for this element.

Value	Meaning
YES	Fraud scrubbing is to be performed.
NO	Fraud scrubbing is not to be performed.
IGNORE	Perform fraud scrubbing and return the result code, but do not take action based upon results.

SCRUB_ACTIVITY

Turn on/off Activity fraud scrubbing. Valid values are TRUE, FALSE, IGNORE

SCRUB_NEGDB

Turn on/off Negative Database fraud scrubbing. Valid values are TRUE, FALSE, IGNORE

SCRUB_PROFILE

Turn on/off Suspicious Profile fraud scrubbing. Valid values are TRUE, FALSE, IGNORE

SS_NUMBER

Customer's last 4 digits of Social Security number used in ACH transactions.

SUB_MERCHANT_ID



Sub Merchant ID, submitted by registered Payment Facilitators.

TRANSACT_ID

Unique identification number of a transaction number to be voided, credit, or ticketed. This element is required for void and ticket transactions. This element is optional for credit transactions.

THREATMETRIX_SESSION_ID

Session ID from ThreatMetrix Device Fingerprinting tool.

UDF01

User data field 1. This element is optional and is provided as a convenience to the merchant.

Maximum length for this field is 36 characters.

UDF02

User data field 2. This element is optional and is provided as a convenience to the merchant.

Maximum length for this field is 1024 characters.

USERNAME

Customer's username within merchant's internal system. This element is optional.

XSELL_CUSTOMER_ID

Destination/Partner customer ID. If omitted, MERCHANT_CUSTOMER_ID is used. This element is optional and only used in the *GenerateXsell* function.



XSELL_MERCHANT_ID

Destination/Partner merchant ID. If omitted, MERCHANT_ID is used. This element is optional and only used in the ***GenerateXsell*** function.

XSELL_REFERENCE_XACT

Transaction ID associated with MERCHANT_CUSTOMER_ID. This element is optional and only used in the ***GenerateXsell*** function.



Appendix A – Examples

Following are some **examples** of the use of the parameters for various types of transactions. Note that the customer ID and original invoice ID are required to perform any modifications to a subscription.

Initial subscription purchase

Example parameters for 3-day trial at \$1.00. Rebills monthly at \$40.00

```
$request->Set(GatewayRequest::MERCHANT_CUSTOMER_ID(), "cust-1");  
$request->Set(GatewayRequest::MERCHANT_INVOICE_ID(), "invoice-1");  
$request->Set(GatewayRequest::AMOUNT(), "1.00");  
$request->Set(GatewayRequest::REBILL_START(), "3");  
$request->Set(GatewayRequest::REBILL_AMOUNT(), "40.00");  
$request->Set(GatewayRequest::REBILL_FREQUENCY(), "MONTHLY");
```

Upgrade membership

- Full/Instant Upgrade

Scenario: User wishes to upgrade from a \$40/month membership to a \$50/month membership. The example code below will upgrade membership immediately. Stop trial period. Change \$40 subscription to a \$50 monthly subscription. Begin billing membership at new price immediately. Update the next rebill date equal to today plus one month.

```
$request->Set(GatewayRequest::MERCHANT_CUSTOMER_ID(), "cust-1");  
$request->Set(GatewayRequest::MERCHANT_INVOICE_ID(), "invoice-1");  
$request->Set(GatewayRequest::REBILL_START(), "AUTO");  
$request->Set(GatewayRequest::REBILL_AMOUNT(), "50.00");
```

- Pro-rated/Instant Upgrade

Scenario: Trial period has limited access – user wishes to have the increased access associated with the full (non-trial) membership. End trial membership immediately and begin full (non-trial) membership. The example code below will charge pro-rated price for balance of trial period. Leave rebill price, date, and frequency unchanged (user will be billed for the full membership on the date that the renewal date – the date that the trial was set to renew to a full membership).

```
$request->Set(GatewayRequest::MERCHANT_CUSTOMER_ID(), "cust-1");  
$request->Set(GatewayRequest::MERCHANT_INVOICE_ID(), "invoice-1");  
$request->Set(GatewayRequest::AMOUNT(), "1.75");
```

- Zero dollar upgrade



Scenario: User wants to upgrade to a membership that is billed quarterly. The example code below will upgrade the subscription to \$200.00 billed quarterly. Change takes effect at renewal date.

```
$request->Set(GatewayRequest::MERCHANT_CUSTOMER_ID(), "cust-1");  
$request->Set(GatewayRequest::MERCHANT_INVOICE_ID(), "invoice-1");  
$request->Set(GatewayRequest::REBILL_AMOUNT(), "200.00");  
$request->Set(GatewayRequest::REBILL_FREQUENCY(), "QUARTERLY");
```

Cancel Promo

User indicates that he wants to cancel – he is then presented with a promotional membership product (in this example a \$100 quarterly product) that induces him to keep his membership active. The example code below will modify his existing subscription to one that is \$100 billed quarterly. Change takes effect at renewal date.

```
$request->Set(GatewayRequest::MERCHANT_CUSTOMER_ID(), "cust-1");  
$request->Set(GatewayRequest::MERCHANT_INVOICE_ID(), "invoice-1");  
$request->Set(GatewayRequest::REBILL_AMOUNT(), "100.00");  
$request->Set(GatewayRequest::REBILL_FREQUENCY(), "QUARTERLY");
```

Changes

Version	Description
1.1	Added username and affiliate parameters. Moved currency reference into CurrencyCodes.pdf
2.0	Updated to 2.0 API, added dynamic descriptor and merchant_site id
2.1	Added REBILL_START=TODAY for membership modifications. Added Appendix A examples.
2.2	Added REBILL_END_DATE parameter
2.3	Clarified requirements on recurring billing for MERCHANT_INVOICE_ID
2.4	Added CUSTOMER_PHONE_NO
2.5	Clarified requirements on recurring billing for MERCHANT_CUSTOMER_ID
2.6	Fixed typo for REBILL_FREQUENCY=SEMI-ANNUALLY
2.7	Deprecated REBILL_START=TODAY and replaced with REBILL_START=AUTO
2.8	Added REBILL_END_DATE=CLEAR for PerformRebillCancel()
2.9	Added PARTIAL_AUTH_FLAG
2.10	Added MERCHANT_PRODUCT_ID
2.11	Clarified support for \$0 AuthOnly
2.12	Added CUSTOMER_PASSWORD
2.13	Added REBILL_COUNT
2.14	Added CLONE_CUSTOMER_RECORD AND CLONE_TO_CUSTOMER_ID
2.15	Added GENERATE_POSTBACK parameter
2.16	Added support for Iovation device fingerprinting parameters IOVATION_BLACK_BOX and IOVATION_RULE
2.17	Added numeric value for REBILL_FREQUENCY
3.2.0	Added ACCOUNT_NO, ROUTING_NO, SAVINGS_ACCOUNT, SS_NUMBER to support ACH transactions.
3.4.0	Added REBILL_SUSPEND and REBILL_RESUME
3.4.1	Added Maximum lengths to REBILL_START, CUSTOMER_FIRSTNAME and CUSTOMER_LASTNAME. Added optional and default value for BILLING_TYPE
3.5.0	Clarified that REBILL_END_DATE=CLEAR can be set on PerformRebillUpdate()
3.5.1	Reworked that REBILL_END_DATE=CLEAR description
3.6.0	Added OMIT_RECEIPT
3.6.1	Added comments on which postback urls are used for GENERATE_POSTBACK
3.9.1	Added timestamp option for REBILL_START



Version	Description
3.11.0	Added PAYINFO_TRANSACT_ID
3.11.1	Indicate max days for REBILL_FREQUENCY
3.12.1	Added CAPTURE_DAYS
3.13.0	Added SUB_MERCHANT_ID
3.14.1	Added SCRUB_ACTIVITY, SCRUB_NEGDB, and SCRUB_PROFILE
3.14.2	Added LIFE to REBILL_FREQUENCY
3.14.3	Updated support for MERCHANT_SITE_ID up to 50000
3.14.4	Added ®
3.15.1	Added THREATMETRIX_SESSION_ID
3.16.1	Added MERCHANT_DESCRIPTOR_CITY and allowed values for GENERATE_POSTBACK
3.16.2	Added note about PARTIAL_AUTH_FLAG only on TSYS
6.0.1	Added XSELL_CUSTOMER_ID, XSELL_MERCHANT_ID, and XSELL_REFERENCE_XACT
6.2	Added BROWSER_USER_AGENT and BROWSER_ACCEPT_HEADER