



# **GatewayResponse**

PHP Programmers Guide

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# GatewayResponse Package

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## package GatewayResponse

This class encapsulates a response provided to a client application in response to a credit card transaction request.

Details of the transaction response, i.e. success/failure, auth-codes, etc., are embedded in the GatewayResponse object by the RocketGate system when a transaction is executed. As shown in the following code segment, these details can be extracted from the response object and utilized in client applications.

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

$response = new GatewayResponse();

... Create and fill GatewayRequest object...
... Create GatewayService object...

$service->PerformPurchase($request, $response);

print "Response Code:" . $response->Get(GatewayResponse::RESPONSE_CODE());
print "TransactID:" . $response->Get(GatewayResponse::TRANSACT_ID());
```

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## Method Summary

### Get(member)

Extract a named element from the response object.

## Field Summary

### AUTH\_NO

Authorization number assigned to transaction by banking institution.

### AVS\_RESPONSE

Response to Address Verification request.

### BALANCE\_AMOUNT

The amount remaining on a pre-paid, debit, gift card.

### BALANCE\_CURRENCY

The currency of the BALANCE\_AMOUNT

### BANK\_RESPONSE\_CODE

The response code from the bank or processor.

### BILLING\_ADDRESS

The billing address sent in the transaction request.



<b>BILLING_CITY</b> The billing city sent in the transaction request.
<b>BILLING_COUNTRY</b> The billing country sent in the transaction request.
<b>BILLING_STATE</b> The billing state sent in the transaction request.
<b>BILLING_ZIPCODE</b> The billing zip/postal sent in the transaction request.
<b>CARD_BIN</b> This element carries the credit card issuer's BIN which is the first 6 digits of the card that was used.
<b>CARD_COUNTRY</b> List indicating countries associated with the BIN of a credit card used in a transaction.
<b>CARD_DEBIT_CREDIT</b> Indicates if debit, credit, or both
<b>CARD_DESCRIPTION</b> A free-form description of the card type, e.g. GOLD, PLATINUM, or PREPAID.
<b>CARD_EXPIRATION</b> Expiration date (MMYY) of a credit card used in transaction.
<b>CARD_HASH</b> One-way hash of customer card number used.
<b>CARD_ISSUER_NAME</b> Bank/Issuing Organization. Optional field.
<b>CARD_ISSUER_PHONE</b> Bank/Issuing organization phone number. Optional field.
<b>CARD_ISSUER_URL</b> Issuing organization URL or URL of website that contains relevant info. Optional field.
<b>CARD_LAST_FOUR</b> Last four digits of a credit card number used in transaction.
<b>CARD_REGION</b> List indicating the geographic region associated with the card
<b>CARD_TYPE</b> Card issuer, i.e. Visa, Mastercard, etc., of credit card used in transaction.
<b>CUSTOMER_FIRSTNAME</b> The Customer's first name used in the transaction
<b>CUSTOMER_LASTNAME</b> The Customer's last name sent in the transaction request.
<b>CVV2_CODE</b> CVV2 result code returned by banking institution in response to transaction.
<b>ECI</b> ECI value that indicates the authentication results on 3D Secure..
<b>EMAIL</b> The email sent in the transaction request.
<b>IOVATION_TRACKING_NO</b> Transaction ID in Iovation Platform.

<b>IOVATION_DEVICE</b>
Iovation device identifier
<b>IOVATION_RESULTS</b>
Iovation Reputation Manager recommendation
<b>IOVATION_SCORE</b>
The risk score total of all rules trigger assigned by Iovation
<b>IOVATION_RULE_COUNT</b>
The Number of rules triggered in Iovation scan
<b>IOVATION_RULE_TYPE_N</b>
Iovation category/type of rules triggered
<b>IOVATION_RULE_REASON_N</b>
Iovation descriptive rule names triggered
<b>IOVATION_RULE_SCORE_N</b>
Iovation rule scores triggered
<b>JOIN_AMOUNT</b>
The amount billed for the initial join operation.
<b>JOIN_DATE</b>
The date upon which the membership was created.
<b>LAST_BILLING_AMOUNT</b>
The amount of the last successful billing operation performed
<b>LAST_BILLING_DATE</b>
The date of the last successful billing operation performed.
<b>LAST_REASON_CODE</b>
The REASON_CODE of the last subscription transaction performed.
<b>MERCHANT_ACCOUNT</b>
Merchant account to which transaction was applied.
<b>MERCHANT_CUSTOMER_ID</b>
Customer ID of cardholder in merchant's internal systems.
<b>MERCHANT_INVOICE_ID</b>
Invoice or transaction ID applied to transaction by merchant's internal systems.
<b>MERCHANT_PRODUCT_ID</b>
Optional product identification number
<b>MERCHANT_SITE_ID</b>
Optional site identification number.
<b>PAY_HASH</b>
One-way hash of the credit card number or EuroDebit account number.
<b>PAY_LAST_FOUR</b>
Last four digits of credit card or EuroDebit account number.
<b>PAY_TYPE</b>
Indicator of the payment mechanism used for transaction, i.e. credit card or EuroDebit.
<b>REASON_CODE</b>
Reason for failure/rejection of transaction, if applicable.
<b>REBILL_AMOUNT</b>
The amount of the next rebill.
<b>REBILL_DATE</b>



The date on a which the subscription will rebill.
<b>REBILL_END_DATE</b> The date on a which the subscription will be canceled.
<b>REBILL_FREQUENCY</b> The current rebilling cycle.
<b>REBILL_STATUS</b> The current rebilling status.
<b>ROCKETPAY_INDICATOR</b> The Customer's last name sent in the transaction request.
<b>RESPONSE_CODE</b> Success/failure indicator for transaction.
<b>SCRUB_RESULTS</b> Response to fraud scrubbing request.
<b>SETTLED_AMOUNT</b> The settled value of the transaction performed on behalf of the merchant.
<b>SETTLED_CURRENCY</b> The currency in which the transaction was settled.
<b>TRANSACTION_ID</b> ID assigned to the transaction by the RocketGate network.

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## Method Details

### Get

#### Get(member)

Extract a named element from the GatewayResponse object. The valid list of elements that can be retrieved is outlined in the Field Summary.

#### Parameters:

*member* – Element to be retrieved from the GatewayResponse object. See the Field Summary for the list of members that can be retrieved.

#### Returns:

Value corresponding to the element specified by *member*. The return value will be *null* if the specified *member* is invalid, e.g. if the user provides a value not listed in the Field Summary. The return value can also be *null* if the specified member is not logical, e.g. the AUTH\_NO member can return *null* if the corresponding transaction failed.

## Field Details



## **AUTH\_NO**

Six digit code returned by the banking institution in response to successful auth-only, ticket, and purchase transactions.

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## **AVS\_RESPONSE**

One character response code returned in response to an Address Verification request in the transaction. Refer to the AVSResponseCodes.pdf which summarizes the values returned for Address Verification.

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## **BALANCE\_AMOUNT**

When present, the amount remaining on a prepaid card. This value is not returned for all transactions. It is only present if the data is returned by the bank.

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## **BALANCE\_CURRENCY**

When present, the currency which denominates the BALANCE\_AMOUNT variable. This value is not returned for all transactions. It is only present if the data is returned by the bank.

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## **BANK\_RESPONSE\_CODE**

The response code from the bank or processor.

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## **CARD\_BIN**

This element carries the credit card issuer's BIN which is the first 6 digits of the card that was used.

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## **CARD\_COUNTRY**

Comma separated list indicating the country associated with the BIN of a card used in a credit card transaction. The value returned can be NULL if the country is not currently known.

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## **CARD\_DEBIT\_CREDIT**

The value in this field indicates whether the card type is associated with debit, credit, or both. Valid values for this field are provided below.

Code	Description
0	Debit
1	Credit
2	Debit and/or credit

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## **CARD\_DESCRIPTION**

A free-form description of the card type, e.g. GOLD, PLATINUM, or PREPAID

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## **CARD\_EXPIRATION**

Expiration date of a card used in a credit card transaction. The expiration date is returned in MMY format.

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## **CARD\_HASH**

One-way hash of card number used in a credit card transaction. This hash value combined with the associated customer code can be used in subsequent transactions to perform purchases, voids, credits, etc..

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## **CARD\_ISSUER\_NAME**

Bank/Issuing Organization. Optional field.

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## **CARD\_ISSUER\_PHONE**

Bank/Issuing organization phone number. Optional field.

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## **CARD\_ISSUER\_URL**



Issuing organization URL or URL of website that contains relevant info. Optional field.

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## **CARD\_LAST\_FOUR**

Last four digits of the card number used in a credit card transaction.

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## **CARD\_REGION**

This field contains a comma separated list indicating the geographic region associated with the card. Valid region codes are listed below. When a card belongs to more than one region, the regions will be provided in a comma separated list, e.g. 1,2,3.

Code	Description
1	USA
2	Canada
3	Europe
4	Asia Pacific
5	Latin America & Caribbean
6	Central Europe, Middle East, & Africa

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## **CARD\_TYPE**

Indicator of card type used for a credit card transaction. The following table outlines the list of values that can be returned.

Code	Description
AMEX	American Express
CARTEBLANCHE	Carte Blanche
DINERSCLUB	Diners Club
DISCOVER	Discover
JCB	JCB
MAESTRO	Maestro





Code	Description
MC	MasterCard
SOLO	Solo
VISA	Visa

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## CVV2\_CODE

One character response code return in response to CVV2 request in the transaction. The following table outlines the list of values that can be returned.

Code	Description
M	Match
N	No match
P	Not processed
S	Should have been present
U	Issuer unable to process request

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## ECI

Electronic Commerce Indicator (ECI) is a value that is returned from the Visa/MasterCard Directory Server to indicate the authentication results of your customer's credit card payment on 3D Secure.

Visa Code	Description
05	Both cardholder and card issuing bank are 3D enabled. 3D card authentication is successful
06	Either cardholder or card issuing bank is not 3D enrolled. 3D card authentication is unsuccessful, in sample situations as: 1. 3D cardholder not enrolled 2. Card issuing bank is not 3D Secure ready
07	Authentication is unsuccessful or not attempted. The credit card is either a non-3D card or card issuing bank does not handle it as a 3D transaction



MasterCard Code	Description
00	Authentication is unsuccessful or not attempted. The credit card is either a non-3D card or card issuing bank does not handle it as a 3D transaction
01	Either cardholder or card issuing bank is not 3D enrolled. 3D card authentication is unsuccessful, in sample situations as: 1. 3D Cardholder not enrolled 2. Card issuing bank is not 3D Secure ready
02	Both cardholder and card issuing bank are 3D enabled. 3D card authentication is successful

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## IOVATION\_TRACKING\_NO

The Transaction ID in Iovation Platform.

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## IOVATION\_DEVICE

The Iovation Device identifier

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## IOVATION\_RESULTS

The Iovation Reputation Manager recommendation. The following are the valid return values.

- A = Accept
  - R = Review
  - D = Decline
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## IOVATION\_SCORE

The risk score total of all rules trigger assigned by Iovation.

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## IOVATION\_RULE\_COUNT

The Number of rules triggered in Iovation scan.

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## **IOVATION\_RULE\_TYPE\_N**

Iovation category of rule triggered. There can be multiple results. If IOVATION\_RULE\_COUNT is N, then there would be N rule types accessed by IOVATION\_RULE\_TYPE\_1...IOVATION\_RULE\_TYPE\_N

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## **IOVATION\_RULE\_REASON\_N**

Iovation descriptive rule name triggered. There can be multiple results. If IOVATION\_RULE\_COUNT is N, then there would be N rule reasons accessed by IOVATION\_RULE\_REASON\_1...IOVATION\_RULE\_REASON\_N

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## **IOVATION\_RULE\_SCORE\_N**

Iovation rule score triggered. There can be multiple results. If IOVATION\_RULE\_COUNT is N, then there would be N rule scores accessed by IOVATION\_RULE\_SCORE\_1...IOVATION\_RULE\_SCORE\_N

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## **JOIN\_AMOUNT**

The amount billed for the initial join operation.

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## **JOIN\_DATE**

The date upon which the membership was created.

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## **LAST\_BILLING\_AMOUNT**

The amount of the last successful billing operation performed

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## **LAST\_BILLING\_DATE**

The date of the last successful billing operation performed.

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## **LAST\_REASON\_CODE**

The REASON\_CODE of the last subscription transaction performed.



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## **MERCHANT\_ACCOUNT**

Merchant account to which the transaction was applied.

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## **MERCHANT\_CUSTOMER\_ID**

In the case where transactions are declined with REASON\_CODE 208, 209, 210, 218, duplicate Subscriptions found this element carries the MERCHANT\_CUSTOMER\_ID of the existing / duplicate subscription.

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## **MERCHANT\_INVOICE\_ID**

In the case where transactions are declined with REASON\_CODE 208, 209, 210, 218, duplicate Subscriptions found this element carries the MERCHANT\_INVOICE\_ID of the existing / duplicate subscription.

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## **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.

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## **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.

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## **PAY\_HASH**

This element carries a one-way hash of the credit card or EuroDebit account used in the transaction. This value can be submitted in subsequent transactions to identify the card number or EuroDebit account against which a transaction is to be performed.

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## PAY\_LAST\_FOUR

This element carries the last four digits of the credit card or EuroDebit account used in the transaction.

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## PAY\_TYPE

This element carries the type of payment mechanism used in the transaction. Currently, two types of payment mechanisms are supported.

- CREDIT – The transaction was performed using a credit card.
  - DEBIT – The transactions was performed using a EuroDebit account.
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## RESPONSE\_CODE

Integer code that indicates the success or failure of a transaction.

A value of zero indicates that the transaction completed successfully. In this instance, the GatewayResponse object contains details of the transaction, e.g. auth-code, etc.

A non-zero value indicates that the transaction failed or was rejected. In this instance, the GatewayResponse object contains a REASON\_CODE that explains the failure.

The following table outlines the response codes that can be returned.

Code	Description	Associated Reason Codes
0	Success	Always 0
1	Bank Decline	100 through 199
2	RocketGate Scrubbing Decline	200 through 299
3	System Error	300 through 399
4	Rejected: Missing Fields / Field Validation	400 through 499

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## REASON\_CODE



Integer code that provides the reason a transaction has failed.

The GatewayDeclineReasonCodes.pdf document outlines the reason codes that can be returned. Note that this file is subject to change.

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## **REBILL\_AMOUNT**

The date on a which the subscription will rebill. This is returned when calling PerformRebillUpdate().

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## **REBILL\_DATE**

The date on a which the subscription will be canceled. This is returned when calling PerformRebillUpdate().

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## **REBILL\_END\_DATE**

The date on a which the subscription will rebill. This is returned when calling PerformRebillCancel().

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## **REBILL\_FREQUENCY**

The current rebilling cycle.

The following table summarizes the valid values for this argument. 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.
Numeric Value	Rebiling occurs once per # of days specified

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## REBILL\_STATUS

The current rebilling status.

Value	Meaning
ACTIVE	Subscription is Active.
SUSPENDED	Subscription is Suspended

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## SCRUB\_RESULTS

String containing the results of RocketGate fraud scrubbing. This element is a string in the format shown below, where the “#” is replaced with a non-negative integer value.

**NEGDB=#,PROFILE=#,ACTIVITY=#**

The count provided for NEGDB indicates the number of negative database entries found that match the billing information provided by the user. The count provided for PROFILE indicates that number of data inconsistencies found in the billing information provided by the user. The count provided for ACTIVITY provides an indicator of the number of recent risk related transactions associated with the user.

This element will populated only be if fraud scrubbing was set to TRUE or IGNORE in the associated request.

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## SETTLED\_AMOUNT

The settled value of the transaction performed on behalf of the merchant.

This value is different then the requested amount when a the currency requested is different then your base currency.

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## SETTLED\_CURRENCY

The currency in which the transaction was settled.

This value is configured once at setup and represents the currency which you settle and report your revenues in.

## TRANSACT\_ID

Unique sixteen digit alpha-numeric value assigned to the transaction.

This ID is assigned by the RocketGate network and is unique to the transaction. It can be used to reference the transaction in reports or other inquiries. This ID must be included in subsequent void and ticket transactions to identify the original transaction that is to be voided or ticketed.

### Changes

Version	Description
2.4	Added Reason codes 200, and 413-419
2.5	Added Reason codes 117,150,151
2.6	Added Reason code 438-441
2.7	Added REBILL_END_DATE member. Added Reason code 448
2.8	Added Reason code 201
2.9	Added Reason code 154
2.10	Added BALANCE_AMOUNT and BALANCE_CURRENCY
2.11	Added CARD_DEBIT_CREDIT, CARD_DESCRIPTION, CARD_REGION and updated CARD_COUNTRY as a list
2.12	Added REBILL_AMOUNT and REBILL_DATE
2.13	Added PAY_HASH, PAY_LAST_FOUR, PAY_TYPE
2.14	Added Reason codes 208, 209, 210
2.15	Added Reason codes 211 and 212
2.16	Added Reason code 123
2.17	Added CARD_ISSUER_NAME, CARD_ISSUER_PHONE, CARD_ISSUER_URL
2.18	Added Reason codes 213-215
2.19	Added Reason codes 156 and 216
2.20	Added Reason code 451
2.21	Added Reason code 217,218, 449
2.22	Added BANK_RESPONSE_CODE
2.23	Added Reason code 157





Version	Description
3.0.0	Added REBILL_FREQUENCY, LAST_BILLING_DATE, LAST_BILLING_AMOUNT, JOIN_DATE, and JOIN_AMOUNT
3.4.2	Added LAST_REASON_CODE, MERCHANT_ACCOUNT, MERCHANT_PRODUCT_ID, MERCHANT_SITE_ID
3.5.0	Added MERCHANT_CUSTOMER_ID and MERCHANT_INVOICE_ID
3.5.1	Added Reason Code 219,220,221,222
3.7.0	Added Reason Codes 316, 321, 321, 323, and 325
3.7.1	Added Reason Code 452
3.7.2	Added REBILL_STATUS
3.9.0	Added IOVATION_*
3.11.0	Added Reason Code 453
3.12.2	Added Response Code 454
3.12.3	Added Response Code 161
3.14.4	Added Response Code 162 and ®
3.15.2	Added 302,304,305-310
3.17.1	Added ECI response
3.17.2	Added Response Codes 223,224
4.0.1	Migrated Reason Codes to GatewayDeclineReasonCodes.pdf
5.3	Added CARD_BIN in response
6.1.0	Added BILLING_ADDRESS, BILLING_CITY, BILLING_COUNTRY, BILLING_STATE, BILLING_ZIPCODE, CUSTOMER_FIRSTNAME, CUSTOMER_LASTNAME, EMAIL, and ROCKETPAY_INDICATOR fields for PerformLookup call.