

Transaction API Specification

Version 0.28 Developer
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Contents

Contents	2
Document Overview	6
About this Document	6
Revision History	6
Preface	7
Purpose	7
Overview	8
Web Service Details	9
Message Format Column Description	12
Request Parameters	12
Authorization Request	16
Response Parameters	17
Authorization Response	18
Capture Auth Transaction Request Parameters	19
Capture Auth Transaction Request	19
Capture Auth Transaction Response Parameters	19
Capture Auth Transaction Response	20
Add Recurring Request Parameters	20
Add Recurring Request	23
Add Recurring Response Parameters	26
Add Recurring – Response	26
Modify Recurring Status - Request Parameters	26
Modify Recurring Status – Request	27

Modify Recurring Status - Response Parameters	27
Batch Request Parameters	27
Batch Capture Request	28
Batch Capture Response Parameters	28
Batch Capture Response	28
ACH Return Report Request Parameters	29
ACH Return Report Transaction Request	29
ACH Return Report Response Parameters	29
ACH Return Report Transaction Response	29
Signature capture Request Parameters	31
Signature capture Request	31
Signature capture Response Parameters	31
Signature capture Response	31
Gift Card Request Parameters	31
Gift Card Balance Inquiry Request	31
Gift Card Balance Inquiry Response Parameters	32
Gift Card Balance Inquiry Response	32
Gift Card Redemption Request	32
Gift Card Redemption Response Parameters	33
Gift Card Redemption Inquiry Response	33
Gift Card Partial Redemption Request	33
Gift Card Partial Redemption Response Parameters	34
Gift Card Partial Redemption Response	34
Gift Card Add Value Request	34
Gift Card Add Value Response Parameters	35
Gift Card Add Value Response	35
Gift Card Balance Transfer Request	35
Gift Card Balance Transfer Response Parameters	35
Gift Card Balance Transfer Response	36

Gift Card Status Change Request	36
Gift Card Status Change Response Parameters	37
Gift Card Status Change Response	37
Gift Card Void Request	37
Gift Card Void Response Parameters	37
Gift Card Void Change Response	38
Gift Card Activation Request	38
Gift Card Activation Response Parameters	38
Gift Card Activation Response	38
Receipt Request Parameters	39
Receipt Request	39
Receipt Response Parameters	39
Receipt Response	39
Java Prerequisites to Test Client Transaction Web Service	41
Sample Test JSON Client	41
Sample Test XML Client	42
Example K-1 — JSON Request for SALE Transaction	44
Example K-2 — JSON Response for SALE Transaction	44
Example K-3— JSON Request for RECHARGE SALE Transaction	45
Example K-4— JSON Response for RECHARGE SALE Transaction	45
Example L-1 — JSON Request for VOID Transaction	45
Example L-2 — JSON Response for VOID Transaction	45
Example M-1 — JSON Request for REFUND Transaction	46
Example M-2 — Response for REFUND Transaction	46
Example M-3 — JSON Request for REFUND WITH CARD Transaction	46
Example M-4 — Response for REFUND WITH CARD Transaction	46
Example M-5 — Request for RECHARGE REFUND Transaction	47
Example M-6 — Response for RECHARGE REFUND Transaction	47
Example N-1 — Request for OFFLINE SALE Transaction	47

Example N-2 — Response for OFFLINE SALE Transaction	48
Example O-1 — Request for AUTH ONLY Transaction	48
Example O-2 — Response for AUTH ONLY Transaction	49
Example P-1 — Request for ACH Debit Transaction	49
Example P-2 — Response for ACH Debit Transaction	49
Example Q-1 — Request for ACH Credit Transaction	50
Example Q-2 — Response for ACH Credit Transaction	50
Example R-1 — Request for Recharge ACH Debit Transaction	50
Example R-2 — Response for Recharge ACH Debit Transaction	51
Example S-1 — Request for Recharge ACH Credit Transaction	51
Example S-2 — Response for Recharge ACH Credit Transaction	51
Example T-1 — Request for ACH Refund Transaction	51
Example T-2 — Response for ACH Refund Transaction	52
Example U-1 — Request for ACH Void Transaction	52
Example U-2 — Response for ACH Void Transaction	52
Example V-1 — Request for Signature Transaction	53
Example V-2 — Response for Signature Transaction	53
Example W-2 — Request for Receipt	53
Example W-2 — Response for Receipt	53
Example X-1 — Request for Gift card Balance Inquiry Transaction	55
Example X-2 — Response for Gift Card Balance Inquiry	55
Example Y-1 — Request for Gift card Redemption	56
Example Y-2 — Response for Gift Card Redemption	56
Example Z-1 — Request for Gift Card Partial Redemption	56
Example Z-2 — Response for Gift card Partial Redemption	57
Example AA-1 — Request for Gift Card Add Value	57
Example AA-2 — Response for Gift Card Add Value	57
Example BB-1 — Request for Gift card Balance Transfer	58
Example BB-2 — Response for Gift Card Balance Transfer	58

Example CC-1— Request for Gift Card Status Change	58
Example BB-1— Response for Gift card Balance Transfer	59
Example BB-2— Request for Gift Card Void	59
Example CC-1— Response for Gift Card Void	59
Example DD-1 — Request for Gift card Activation	60
Example DD-2 — Response for Gift Card Activation	60
APPENDIX	61
Transaction Code	61
Card Holder ID Code	61
Card Holder ID Data	61
Account Data Source	61
Customer Data Field	62
Response Codes	64
ACH Response Codes	72
ACH RETURN REPORT Response Codes	73
GIFT CARD Response Codes	73
Address Verification Result Codes	74
Verification Code Result Codes	75
Month Descriptions	75
State Descriptions	76
Approval Codes	77

Document Overview

About this Document

This document serves as the Request and Response format specification for the Authorization

Transaction API.

Revision History

Project Name:	ClearGate	Project Version:	Version 0.28
Project Manager:	Pete Pistone		
Prepared Revised By:	VGS	Date Updated:	01/02/2016

Date	Author	Description
10/21/2013	CG	Initial Draft
04/10/2014	J. Davis	Formatting & clarity modifications.
07/04/2014	VGS	New API server for refund with card added in the TRANSACTION API
07/22/2014	VGS	Change in description for ACCOUNT_DATA_SOURCE in Request Parameters in Table A
08/13/2014	VGS	New API server for recharge sale, recharge refund added in the TRANSACTION API
10/13/2014	VGS	New API server for ACH Debit, ACH Credit, ACH Recurring added in the Transaction API
10/30/2014	VGS	New API server for Recharge ACH Debit, Recharge ACH Credit, ACH Refund, ACH Void
01/14/2015	VGS	Table 1.6.1 Added for ACH Response Code
01/19/2014	CG	Updated Table of Contents
02/04/2015	VGS	New API server for ACH Return Report
03/11/2015	VGS	Change Account Number in to Transaction ID in both Recharge ACH Debit and Recharge ACH Credit
04/06/2015	VGS	Risk hold settings are the same for transactions through Transaction API and Virtual Terminal
05/21/2015	VGS	Signature Capture Through API (Sale Transaction)
05/21/2015	VGS	New API for Receipt
07/20/2015	VGS	Signature Capture Through API(via Transaction Id)
09/24/2015	VGS	Added Business check and personal check for ACH

		Credit
09/24/2015	VGS	Added Business check and personal check for ACH Debit
09/24/2015	VGS	Added Business check and personal check for ACH Recurring
10/10/2015	VGS	Remove Signature Capture during Sale Transaction
11/16/2015	VGS	Added Gift Card
11/16/2015	VGS	Added Gift Card optocard transaction types
11/17/2015	PP	Updated table "A" for customer first and last name
12/04/2015	VGS	Added swipe for Gift card. Added Activation in Gift card. Partial refund for card
01/02/2016	GB	Added Level 2 processing

Preface

Purpose

The Purpose of this document is to describe the request and response formats for the Transactions in the ClearGate system using the web service.

Overview

Transaction web service is intended to do the following Transaction operations on the ClearGate host.

- SALE
- VOID
- REFUND
- OFFLINE SALE
- AUTH ONLY
- ADD RECURRING
- MODIFY RECURRING STATUS
- BATCH CAPTURE
- CAPTURE AUTH TRANSACTION

- REFUND WITH CARD
- RECHARGE SALE
- RECHARGE REFUND
- ACH DEBIT
- ACH CREDIT
- ACH RECURRING
- RECHARGE ACH DEBIT
- RECHARGE ACH CREDIT
- ACH REFUND
- ACH VOID
- ACH RETURN REPORT
- RECEIPT
- SIGNATURE CAPTURE
- GIFT CARD
- GIFT CARD VOID

Web Service Details

This web service is used for Transaction Processing.

Note: Transactions must be submitted using HTTP over TLS 1.2 (HTTPS). Transactions submitted over unsecured channels or less than TLS 1.2 will be rejected with Handshake Failure error and it is highly recommended that you require validation of the server's certificate with a trusted authority in order to avoid man in the middle attacks.

API Test Login Credentials for Ecomm or card not present integrations:

Merchant number: 10022

User name: 7FhfjJ73J

Password: 7Jhj3FJf7j

Terminal number: 45

API Test Login Credentials for swiped card present integrations:

Merchant number: 10021

User name: mqMLOI54o6

Password: 45o6OIMLq

Terminal number: 40

Web Service(s)	Transaction, Batch Capture
Type	REST JSON/XML
JSON URL	https://vtstaging.cleargate.com/payhubvtws/transaction.json
XML URL	https://vtstaging.cleargate.com/payhubvtws/transaction.xml
Method	POST
Parameter	Request
Description	For processing of transactions (sale, auth, auth-capture, batch, ACH credit, etc).
Message Header	<p><i>JSON request:</i> POST /payhubvtws/transaction.json HTTP/1.1 Host: vtstaging.cleargate.com Content-Type: application/json Content-Length: length</p> <p><i>XML request:</i> POST /payhubvtws/transaction.xml HTTP/1.1 Host: vtstaging.cleargate.com Content-Type: application/xml Content-Length: length</p>
Note	See Table 1.1 for TRANSACTION_CODEs required for this service.

Web Service	Add Recurring
Type	REST XML/REST JSON
JSON URL	https://vtstaging.cleargate.com/payhubvtws/addrecurring.json
XML URL	https://vtstaging.cleargate.com/payhubvtws/addrecurring.xml
Method Name	POST

Parameter Name	Request
Description	For adding a recurring billing transaction.
Message Header	<p><i>JSON request:</i> POST /payhubvtws/addrecurring.json HTTP/1.1 Host: vtstaging.cleargate.com Content-Type: application/json Content-Length: length</p> <p><i>XML request:</i> POST /payhubvtws/addrecurring.xml HTTP/1.1 Host: vtstaging.cleargate.com Content-Type: application/xml Content-Length: length</p>

Web Service	Modify Recurring Status
Type	REST JSON/XML
JSON URL	https://vtstaging.cleargate.com/payhubvtws/updaterecurringstatus.json
XML URL	https://vtstaging.cleargate.com/payhubvtws/updaterecurringstatus.xml
Method	POST
Parameter	Request
Description	For updating recurring billing transaction status.
Message Header	<p><i>JSON request:</i> POST /payhubvtws/updaterecurringstatus.json HTTP/1.1 Host: vtstaging.cleargate.com Content-Type: application/json Content-Length: length</p> <p><i>XML request:</i> POST /payhubvtws/updaterecurringstatus.xml HTTP/1.1 Host: vtstaging.cleargate.com Content-Type: application/xml Content-Length: length</p>

Web Service	Capture Auth Transaction
Type	REST JSON/XML
JSON URL	https://vtstaging.cleargate.com/payhubvtws/captureauthtransaction.json
XML URL	https://vtstaging.cleargate.com/payhubvtws/captureauthtransaction.xml
Method	POST
Parameter	Request

Description	For capture authorization transactions only.
Message Header	<p><i>JSON request:</i> POST /payhubvtws/captureauthtransaction.json HTTP/1.1 Host: vtstaging.cleargate.com Content-Type: application/json Content-Length: length</p> <p><i>XML request:</i> POST /payhubvtws/captureauthtransaction.xml HTTP/1.1 Host: vtstaging.cleargate.com Content-Type: application/xml Content-Length: length</p>

Web Service	ACH Return Report
Type	REST JSON/XML
JSON URL	https://vtstaging.cleargate.com/payhubvtws/achreturnreport.json
XML URL	https://vtstaging.cleargate.com/payhubvtws/achreturnreport.xml
Method	POST
Parameter	Request
Description	For capture authorization transactions only.
Message Header	<p><i>JSON request:</i> POST /payhubvtws/achreturnreport.json HTTP/1.1 Host: vtstaging.cleargate.com Content-Type: application/json Content-Length: length</p> <p><i>XML request:</i> POST /payhubvtws/achreturnreport.xml HTTP/1.1 Host: vtstaging.cleargate.com Content-Type: application/xml Content-Length: length</p>
Web Service	Gift Card Transaction
Type	REST JSON/XML
JSON URL	https://vtstaging.cleargate.com/payhubvtws/giftcardtransaction.json
XML URL	https://vtstaging.cleargate.com/payhubvtws/giftcardtransaction.xml
Method	POST
Parameter	Request
Description	For capture authorization transactions only.
Message Header	<p><i>JSON request:</i> POST /payhubvtws/giftcardtransaction.json HTTP/1.1</p>

	Host: vtstaging.cleargate.com Content-Type: application/json Content-Length: length <i>XML request:</i> POST /payhubvtws/giftcardtransaction.xml HTTP/1.1 Host: vtstaging.cleargate.com Content-Type: application/xml Content-Length: length
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Message Format Column Description

- Table 1.0 — Transaction Parameter Specifications

Field Name	Description
Data Type (T)	Format and valid values are: N Numeric; valid values are 0-9. AN Alphanumeric; valid values are a-z, A-Z, 0-9 & any printable character. A Alphabetic; valid values are a-z and A-Z. S Special characters. SPACE will be used to indicate the ' ' (unquoted) space as a valid character.
Length (L)	Indicates field length. Variable: Represented as “minimum - maximum”; e.g.: 1 - 76 Fixed: If value to enter is predefined. For example, 3.
Requirement (R)	Format and valid values are: R Required/Mandatory O Optional C Conditional
Description	Describes field details.

Note: All the request and result parameters are case sensitive and the name for each parameter should be exactly same as indicated in the sample requests and detail tables.

Request Parameters

Table A

Parameter	T	L	R	Description
MERCHANT_NUMBER	N	5-11	R	The merchant identifier; also known as the “Organization ID.”
USER_NAME	AN	10	R	API User Name for the merchant.

PASSWORD	AN	10	R	API User Password for the merchant.
TERMINAL_NUMBER	N	1-11	R	This numeric field contains a number assigned by ClearGate.
RECORD_FORMAT	A	2	C	This two-character field identifies the card type used in the authorization message (i.e. whether the message is for credit or debit card). Valid values are: CC Credit DC Debit CT ACH
TRANSACTION_CODE	AN	2	R	Identifies the transaction type like 01 for SALE and RECHARGE SALE, 02 for VOID, 03 for REFUND,08 for REFUND WITH CARD and RECHARGE REFUND so on.09 for ACH Debit, 10 for ACH Credit, 11 for Recharge ACH Debit, 12 for Recharge ACH Credit, 13 for ACH Refund, 14 for ACH void (Please refer to Table 1.1)
CARDHOLDER_ID_CODE	AN/S	1	C	Specifies the method used to verify the identity of the cardholder. (See Table 1.2) @ Credit Sale & auth-only K Debit sale, auth-only, & refunds.
CARD HOLDER ID DATA	AN	0-42	C	Must be 0, 32 to 42 characters in length. The Cardholder ID code specifies the type and format of data to be contained in this field. This must be present for Debit Sale and Debit Refund. See Table 1.3 . This must be sent only for Debit Sale, Debit Auth Only and Debit Refund Transactions.
ACCOUNT_DATA_SOURCE	A	1	C	A one-character code identifying the source of the customer data entered. See Table 1.4 . The ACCOUNT_DATA_SOURCE should always be 'T' in case of REFUND WITH CARD Transaction The ACCOUNT_DATA_SOURCE should always be 'Z' in case of RECHARGE SALE and RECHARGE REFUND Transaction
CUSTOMER_DATA_FIELD	AN/S	5-76	C	This is a variable length field containing the customer account or check acceptance ID data in one of four formats. The cardholder account information can be read from one of two magnetic stripes on the card or it can contain data which has been entered manually, or the card token number.

				Special characters are allowed: SPACE = ^ / (Please see Table 1.5) Required for REFUND WITH CARD Transaction Required for RECHARGE SALE Transaction. Required for RECHARGE REFUND Transaction
EXPIRY_DATE	N	6	C	A 6 digit numeric field containing the expiry date if the ACCOUNT_DATA_SOURCE is "Z" or "T". The data should be in the format: MMYYYY (e.g., 102012) Required for REFUND WITH CARD Transaction
CVV_CODE	A	1	C	A one-character code identifying CVV Data is present or not. The value must only be: Y CVV data present in CVV_DATA field N CVV is not present
CVV_DATA	N	3-4	C	The CVV value if and only if the CVV_CODE is set to 'Y'.
TRANSACTION_AMOUNT	N	1-12	C	This is a variable length field from zero to 12-character numeric in length. Identifies the transaction amount to be authorized. The transaction amount is to be presented with implied decimal point. e.g., \$0.01 would be represented as 1. Required for REFUND WITH CARD Transaction Required for RECHARGE SALE Transaction Required for RECHARGE REFUND Transaction
TRANSACTION_ID	N	1-15	C	Returned in each transaction; it is required for VOID and REFUND transactions.
OFFLINE_APPROVAL_CODE	AN	6	C	This is a 6 digit alphanumeric length field is mandatory if and only if the OFFLINE SALE is requested. If ClearGate/TSYS/VT system is down, Merchant Admin User/Cashier will do a VOICE AUTHORIZATION with TSYS using the customer card information and note down the Offline Approval Auth-Code provided by TSYS. The same field is mandatory to provide at a time of Offline SALE transaction.
TRANSACTION_NOTE	AN/S	0-250	O	A text description/note for the transaction. Valid special characters are: SPACE ~ ! @ # \$ % () - _ = + / [{] } . < > ^ ' ? , ; * &

CUSTOMER_ID	N	1-11	C	Provided in transaction response if the card email address or phone number is provided. If this field has been provided then these fields are not required: <ul style="list-style-type: none"> CUSTOMER_FIRST_NAME
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				<ul style="list-style-type: none"> CUSTOMER_LAST_NAME CUSTOMER_COMPANY_NAME CUSTOMER_JOB_TITLE CUSTOMER_EMAIL_ID CUSTOMER_WEB CUSTOMER_PHONE_NUMBER CUSTOMER_PHONE_EXT CUSTOMER_PHONE_TYPE <p>Billing & shipping information is required to be sent even if Customer ID is provided, if AVS information is required.</p>
CUSTOMER_BILLING_ADD_ZIP	N	5-9	C	Cardholder billing postal code (9 character max). For addresses in the USA, this is a numeric 5+4 ZIP; or a five-digit ZIP. This field is mandatory if the transactions are manually entered and AVS data flag is enabled in VT risk fraud settings.
CUSTOMER_BILLING_ADDRESS1	AN/S	0-30	O	Cardholder billing address including the unit, apartment, flat, or suite number. This data is required if AVS data flag is enabled in VT risk fraud settings.
CUSTOMER_BILLING_ADDRESS2	AN/S	0-30	O	This field is cardholder billing address including the unit, apartment, flat, or suite number.
CUSTOMER_BILLING_ADD_CITY	A/S	0-20	O	Cardholder billing postal city. This field contains the alphabet and SPACE only.
CUSTOMER_BILLING_ADD_STATE	N	0-2	O	Cardholder billing state/province identifier as described in Table 1.10 .
CUSTOMER_FIRST_NAME	A	0-20	O	First name as it appears on the card. No spaces or special characters
CUSTOMER_LAST_NAME	A	0-20	O	Last name as it appears on the card. No spaces or special characters
CUSTOMER_COMPANY_NAME	AN/S	0-20	O	Cardholder company name.
CUSTOMER_JOB_TITLE	A/S	0-20	O	Cardholder job title.
CUSTOMER_EMAIL_ID	AN/S	0-50	O	Cardholder email address.
CUSTOMER_WEB	AN/S	0-50	O	Cardholder web address (domain name).
CUSTOMER_PHONE_NUMBER	N	0-20	O	Cardholder phone number.
CUSTOMER_PHONE_EXT	N	0-5	O	Cardholder phone extension.
CUSTOMER_PHONE_TYPE	A	0-1	O	Cardholder phone type. Valid values: H Home M Mobile W Work
CUSTOMER_SHIPPING_ADDRESS1	AN/S	0-30	O	Cardholder shipping address including the unit, apartment, flat, or suite number.
CUSTOMER_SHIPPING_ADDRESS2	AN/S	0-30	O	This field is cardholder billing address including the unit, apartment, flat, or suite number.
CUSTOMER_SHIPPING_ADD_CITY	A/S	0-20	O	Cardholder shipping postal city.
CUSTOMER_SHIPPING_ADD_STATE	N	0-2	O	Cardholder shipping state/province identifier

				as defined in Table 1.10 .
CUSTOMER_SHIPPING_ADD_NAME	A/S	0-20	O	Cardholder shipping address name (or, label).
CUSTOMER_SHIPPING_ADD_ZIP	N	5-9	O	Cardholder billing postal code. For addresses in the USA, this is a numeric 5+4 ZIP; or a five-digit ZIP.
CHECK_FIRST_NAME	A	0-49	R	ACH/Check Account First Name
CHECK_LAST_NAME	A	0-49	R	ACH/Check Account Last Name
CHECK_ACCOUNT_TYPE	A	0-20	R	Account Type Checking Savings
CHECK_ACCOUNT_NUMBER	N	0-15	R	Check Account Number
CHECK_ROUTING_NUMBER	N	0-15	R	Check Routing Number
SIGNATURE_TRANSACTION	HEXA DECI MAL	0-15 1		For Capturing Digital Signature
PURCHASE_ORDER_NUMBER	N	16,2 5	O	Level 2 Data for Visa and MasterCard. This field contains a 16 or 25-character Purchase Order Number supplied by the Visa or MasterCard Purchasing Card cardholder. 16 max character for Visa and 25 max character for MasterCard
OPTIONAL_AMOUNT_IDENTIFIER	N	1	O	Level 2 Data for Visa and MasterCard. This field contains one-character identifying the characteristics of the OPTIONAL_AMOUNT. This field must contain one of the following values. 0 Not Used, 1 Local Sales Tax Amount, 2 Tax Exempt
OPTIONAL_AMOUNT	N	1-12	C	Level 2 Data for Visa and MasterCard. This 12-character numeric field contains the amount as defined by the OPTIONAL_AMOUNT_IDENTIFIER. If the value of OPTIONAL_AMOUNT_IDENTIFIER is set to 0 this field should be defaulted to 0. Any non-zero sales tax must have a minimum value of 0.1% and a maximum value of 22% of the sale amount.
SUPPLIER_REFERENCE_NUMBER	AN	1-9	O	Amex Level 2 ONLY. This field contains a reference number that is used by American Express to obtain supporting information on a charge from a Merchant. Supporting documentation should be readily available in case of inquiry. The number can be any combination of characters and numerals defined by the Merchant or Authorized Processor. However, it must be an index to the Merchant's record, so that charge information can be readily retrieved and promptly submitted within 10 calendar days (or within the period stipulated in the contractual

				agreement). This number appears on the Card member descriptive billing and Merchant inquiry reports.
CARDHOLDER_REFERENCE_NUMBER	AN	1-17	O	Amex Level 2 ONLY. This field is defined by the card member and entered by the Merchant at the point-of-sale. This information will be displayed within the Statement/Reporting process and may include accounting information specific to the client.
SHIPPED_TO_ZIP_CODE	AN	6	O	Amex Level 2 ONLY. This field contains the ZIP code to which the commodity was shipped. If the "Ship-to Zip" code is not available, provide the ZIP code of the Merchant where the purchase took place. This field must be populated for Amex CPC transactions.
SALES_TAX	N	6	O	Amex Level 2 ONLY. The entry in the Transaction Amount field must include this tax amount
CHARGE_DESCRIPTOR_1	AN	1-40	R	Amex Level 2 ONLY. This field contains 40 characters of free text.
REQUESTER_NAME	AN	1-38	O	Amex Level 2 ONLY. This field contains the name of the requester, if the Card member is not the person that ordered or purchased the product or service.
TOTAL_TAX_AMOUNT	N	1-12	O	Amex Level 2 ONLY. This numeric field contains the Total Tax Amount assessed at the point-of-sale, for all line items. This entry is the total of all taxes applicable to this transaction and it should not be used to report individual line item details for taxes.
CHK_FLAG	N	1	R	For business and personal check Personal check Means 1(First and Last Name Mandatory) Business check Means 2(Company Name Mandatory)

Authorization Request

Example I-1 — Sample JSON Request

```
{
  "RECORD_FORMAT": "CC",
  "MERCHANT_NUMBER": "your_merchant_no",
  "USER_NAME": "your_username",
  "PASSWORD": "your_password",
  "TERMINAL_NUMBER": "your_terminal_no",
  "TRANSACTION_CODE": "05",
  "CARDHOLDER_ID_CODE": "@",
  "CARD_HOLDER_ID_DATA": "",
  "ACCOUNT_DATA_SOURCE": "T",
  "CUSTOMER_DATA_FIELD": "4111111111111111"
}
```

```

"CARD_EXPIRY_DATE": "122012",
"CVV_CODE": "Y",
"CVV_DATA": "999",
"TRANSACTION_AMOUNT": "333",
"OFFLINE_APPROVAL_CODE": "",
"TRANSACTION_ID": "",
"TRANSACTION_NOTE": "",
"CUSTOMER_ID": "",
"CUSTOMER_FIRST_NAME": "James",
"CUSTOMER_LAST_NAME": "Streisand",
"CUSTOMER_COMPANY_NAME": "Brad's Raunch",
"CUSTOMER_JOB_TITLE": "Quality Analysis",
"CUSTOMER_EMAIL_ID": "john@gmail.com",
"CUSTOMER_WEB": "http://www.ClearGateinc.com",
"CUSTOMER_PHONE_NUMBER": "8787878787",
"CUSTOMER_PHONE_EXT": "8787",
"CUSTOMER_PHONE_TYPE": "W",
"CUSTOMER_BILLING_ADDRESS1": "30PostSquare",
"CUSTOMER_BILLING_ADDRESS2": "Straightway",
"CUSTOMER_BILLING_ADD_CITY": "Boston",
"CUSTOMER_BILLING_ADD_STATE": "2",
"CUSTOMER_BILLING_ADD_ZIP": "85284",
"CUSTOMER_SHIPPING_ADD_NAME": "James",
"CUSTOMER_SHIPPING_ADDRESS1": "30PostSquare",
"CUSTOMER_SHIPPING_ADDRESS2": "Straightway",
"CUSTOMER_SHIPPING_ADD_CITY": "Boston",
"CUSTOMER_SHIPPING_ADD_STATE": "2",
"CUSTOMER_SHIPPING_ADD_ZIP": "85284",
"SIGNATURE_TRANSACTION": "Your Transaction Signature HexaDecimal Format",
"OPTIONAL_AMOUNT_IDENTIFIER": "1",
"OPTIONAL_AMOUNT": "0.5",
"PURCHASE_ORDER_NUMBER": "1234ABC",
"CHK_FLAG": "1"
}

```

Example I-2 — Sample XML Request

```

<com.payhub.webpos.vt.webservice.model.TransactionReqBO>
  <RECORD_FORMAT>CC</RECORD_FORMAT>
  <MERCHANT_NUMBER>your_merchant_no</MERCHANT_NUMBER>
  <USER_NAME>your_username</USER_NAME>
  <PASSWORD>your_password</PASSWORD>
  <TERMINAL_NUMBER>your_terminal_no</TERMINAL_NUMBER>
  <TRANSACTION_ID></TRANSACTION_ID>
  <TRANSACTION_CODE>05</TRANSACTION_CODE>
  <TRANSACTION_NOTE></TRANSACTION_NOTE>
  <CARDHOLDER_ID_CODE>@</CARDHOLDER_ID_CODE>
  <CARD_HOLDER_ID_DATA></CARD_HOLDER_ID_DATA>
  <ACCOUNT_DATA_SOURCE>T</ACCOUNT_DATA_SOURCE>
  <CUSTOMER_DATA_FIELD>4111111111111111</CUSTOMER_DATA_FIELD>
  <CARD_EXPIRY_DATE>122012</CARD_EXPIRY_DATE>
  <CVV_CODE>Y</CVV_CODE>
  <CVV_DATA>999</CVV_DATA>
  <TRANSACTION_AMOUNT>333</TRANSACTION_AMOUNT>
  <OFFLINE_APPROVAL_CODE></OFFLINE_APPROVAL_CODE>
  <CUSTOMER_FIRST_NAME>James</CUSTOMER_FIRST_NAME>
  <CUSTOMER_LAST_NAME>Streisand</CUSTOMER_LAST_NAME>
  <CUSTOMER_COMPANY_NAME>Brad's Raunch</CUSTOMER_COMPANY_NAME>
  <CUSTOMER_JOB_TITLE>Quality Analysis</CUSTOMER_JOB_TITLE>
  <CUSTOMER_EMAIL_ID>john@gmail.com</CUSTOMER_EMAIL_ID>

```

```

<CUSTOMER_WEB>http://www.ClearGateinc.Com</CUSTOMER_WEB>
<CUSTOMER_PHONE_NUMBER>8787878787</CUSTOMER_PHONE_NUMBER>
<CUSTOMER_PHONE_EXT>8787</CUSTOMER_PHONE_EXT>
<CUSTOMER_PHONE_TYPE>W</CUSTOMER_PHONE_TYPE>
<CUSTOMER_BILLING_ADDRESS1>30PostSquare</CUSTOMER_BILLING_ADDRESS1>
<CUSTOMER_BILLING_ADDRESS2>Straightway</CUSTOMER_BILLING_ADDRESS2>
<CUSTOMER_BILLING_ADD_CITY>Boston</CUSTOMER_BILLING_ADD_CITY>
<CUSTOMER_BILLING_ADD_STATE>2</CUSTOMER_BILLING_ADD_STATE>
<CUSTOMER_BILLING_ADD_ZIP>85284</CUSTOMER_BILLING_ADD_ZIP>
<CUSTOMER_SHIPPING_ADD_NAME>James</CUSTOMER_SHIPPING_ADD_NAME>
<CUSTOMER_SHIPPING_ADDRESS1>30PostSquare</CUSTOMER_SHIPPING_ADDRESS1>
<CUSTOMER_SHIPPING_ADDRESS2>Straightway</CUSTOMER_SHIPPING_ADDRESS2>
<CUSTOMER_SHIPPING_ADD_CITY>Boston</CUSTOMER_SHIPPING_ADD_CITY>
<CUSTOMER_SHIPPING_ADD_STATE>2</CUSTOMER_SHIPPING_ADD_STATE>
<CUSTOMER_SHIPPING_ADD_ZIP>85284</CUSTOMER_SHIPPING_ADD_ZIP>
<SIGNATURE_TRANSACTION> Signature HexaDecimal Format</SIGNATURE_TRANSACTION>
<CHK_FLAG> 1 </CHK_FLAG>
</com.cleargate.webpos.vt.webservice.model.TransactionReqBO>

```

Response Parameters

• Table B

Parameter	T	L	R	Description
RESPONSE_CODE	AN	2-4	R	Response Code returned from the authorizing system, indicating the status of the authorization transaction. (See Table 1.6)
RESPONSE_TEXT	AN	0-50	R	Text message for authorization result. The display text should not be used to determine the nature of a response message.
APPROVAL_CODE	AN	0,6	O	This field contains the authorization code when a transaction is approved. If the response code indicates that the transaction is not approved then the contents of this field should be ignored. If approved, this information must be stored and resubmitted in the data capture record; if failed, this field must be empty. (See Table 1.11)
AVS_RESULT_CODE	AN	1	O	Address verification result code. If the response of the Transaction is given by Gateway then this field must be empty. (Please refer to Table 1.7)
VERIFICATION_RESULT	AN	0-1	O	This field contains a 1-character address verification result code. This field contains the value returned by the authorizing host whenever address verification is requested. This is sent in the response even when address verification is not requested. Only for the online authorization transaction. (Please refer to Table 1.8a)
TRANSACTION_ID	N	1-15	O	The TRANSACTION_ID is always returned for each transaction. This field is unique for each transaction. This field should store and resubmit for

				VOID or REFUND transactions.
RISK_STATUS_RESPONSE_CODE	N	1	O	The Risk status response code is return if the transaction is crossing the business limit sets. For example : 1 HIGH_TICKET_LIMIT 2 HIGH_VOLUME_LIMIT 3 BIN_FILTER 4 VT_FILTERS Otherwise defaulted to '0' or null.
RISK_STATUS_RESPONSE_TEXT	AN	30	O	The Risk status response text is return if the transaction is crossing the business limits sets on GW as well as on VT side.
CARD_TOKEN_NO	N	0-25	O	This is maximum 25 digit numeric field; the Token number is returned for 3 rd party Origin Type only for requested Customer card No #.
TRANSACTION_DATE_TIME	AN	0-25	O	The ClearGate system date and time when the transaction is entered in the ClearGate gateway system. Format : YYYY-MM-DD HH:MM:SS (e.g., 2014-02-15 15:54:55)
BATCH_ID	N	1-15	O	The batch ID in which the transaction belongs (required for batch capture calls). This field may not be provided if the transaction failed.
CUSTOMER_ID	N	1-15	O	Returned if the customer email address or phone number is provided.
CIS_NOTE	AN	1-50	O	The customer information system will return a note if the customer details updated in the ClearGate system or if system returns an error for the customer information provided.

Authorization Response

Example B-1 — Sample JSON Response

```
{
  "RESPONSE_CODE": "00",
  "RESPONSE_TEXT": "APPROVAL TAS770 ",
  "AVS_RESULT_CODE": "0",
  "APPROVAL_CODE": "035919",
  "VERIFICATION_RESULT": "M",
  "TRANSACTION_ID": "10235",
  "RISK_STATUS_RESPONSE_CODE": "",
  "RISK_STATUS_RESPONSE_TEXT": "",
  "CARD_TOKEN_NO": "",
  "TRANSACTION_DATE_TIME": "",
  "BATCH_ID": "",
  "CUSTOMER_ID": "",
  "CIS_NOTE": ""
}
```

Example B-2 — Sample XML Response

```

<com.payhub.webpos.vt.webservice.model.TransactionResBO>
  <RESPONSE_CODE>00</RESPONSE_CODE>
  <RESPONSE_TEXT>APPROVAL TAS770 </RESPONSE_TEXT>
  <APPROVAL_CODE>035919</APPROVAL_CODE>
  <AVS_RESULT_CODE>0</AVS_RESULT_CODE>
  <VERIFICATION_RESULT>M</VERIFICATION_RESULT>
  <TRANSACTION_ID>10235</TRANSACTION_ID>
  <RISK_STATUS_RESPONSE_CODE></RISK_STATUS_RESPONSE_CODE>
  <RISK_STATUS_RESPONSE_TEXT></RISK_STATUS_RESPONSE_TEXT>
  <CARD_TOKEN_NO></CARD_TOKEN_NO>
  <TRANSACTION_DATE_TIME></TRANSACTION_DATE_TIME>
  <BATCH_ID></BATCH_ID>
  <CUSTOMER_ID></CUSTOMER_ID>
  <CIS_NOTE></CIS_NOTE>
</com.cleargate.webpos.vt.webservice.model.TransactionResBO>

```

Capture Auth Transaction Request Parameters

- Table C

Parameter	T	L	R	Description
MERCHANT_NUMBER	N	5-11	R	See Table A.
USER_NAME	AN	10	R	See Table A.
PASSWORD	AN	10	R	See Table A.
TERMINAL_NUMBER	N	1-11	R	See Table A.
TRANSACTION_ID	N	1-15	R	The TRANSACTION_ID to capture; returned from an auth-only call.
TRANSACTION_AMOUNT	N	1-12	O	Identifies the transaction amount to be captured. <i>This field is optional</i> ; if a value is not submitted then it will capture the transaction for authorized amount. See Table A for format details.

Capture Auth Transaction Request

Example C-1 — Sample JSON Request

```

{
  "MERCHANT_NUMBER": "your_merchant_no",
  "USER_NAME": "your_username",
  "PASSWORD": "your_password",
  "TERMINAL_NUMBER": "your_terminal_no",
  "TRANSACTION_ID": "1529",
  "TRANSACTION_AMOUNT"
}

```

Example C-2 — Sample XML Request

```

<com.payhub.webpos.vt.webservice.model.CaptureTransactionReqBO>

```

```
<MERCHANT_NUMBER>your_merchant_no</MERCHANT_NUMBER>
<USER_NAME>your_username</USER_NAME>
<PASSWORD>your_password</PASSWORD>
<TERMINAL_NUMBER>your_terminal_no</TERMINAL_NUMBER>
<TRANSACTION_ID>1529</TRANSACTION_ID>
<TRANSACTION_AMOUNT></TRANSACTION_AMOUNT>
</com.cleargate.webpos.vt.webservice.model.CaptureTransactionReqBO>
```

Capture Auth Transaction Response Parameters

- Table D

Parameter	T	L	R	Description
RESPONSE_CODE	AN	2-4	R	See Table B.
RESPONSE_TEXT	AN	0-5 0	R	See Table B.
BATCH_ID	N	1-1 5	O	This is numeric field identifies the batch ID which the transaction is in. It may be used to capture the batch, or for reference in the VT. This field may not be provided if the transaction failed.

Capture Auth Transaction Response

Example D-1 — Sample JSON Response

```
{
  "RESPONSE_CODE": "4076",
  "RESPONSE_TEXT": "TRANSACTION CAPTURED SUCCESSFULLY",
  "BATCH_ID": "123"
}
```

Example D-2 — Sample XML Response

```
<com.payhub.webpos.vt.webservice.model.CaptureTransactionResBO>
  <RESPONSE_CODE>4076</RESPONSE_CODE>
  <RESPONSE_TEXT>TRANSACTION CAPTURED SUCCESSFULLY</RESPONSE_TEXT>
  <BATCH_ID>123</BATCH_ID>
</com.cleargate.webpos.vt.webservice.model.CaptureTransactionResBO>
```

Add Recurring Request Parameters

- Table E

Parameter	T	L	R	Description
MERCHANT_NUMBER	N	5-11	R	See Table A.
USER_NAME	AN	10	R	See Table A.
PASSWORD	AN	10	R	See Table A.
TERMINAL_NUMBER	N	1-11	R	See Table A.
ACCOUNT_DATA_SOURCE	A	1	C	See Table A.
CUSTOMER_DATA_FIELD	AN/S	5-76	C	See Table A.
EXPIRY_DATE	N	6	C	See Table A.
CVV_CODE	A	1	C	See Table A.
CVV_DATA	N	3-4	C	See Table A.
TRANSACTION_AMOUNT	N	0-12	R	See Table A.

CUSTOMER_FIRST_NAME	A	0-20	R	See Table A.
CUSTOMER_LAST_NAME	A	0-20	R	See Table A.
CUSTOMER_COMPANY_NAME	AN	0-20	O	See Table A.
CUSTOMER_JOB_TITLE	A	0-20	O	See Table A.
CUSTOMER_EMAIL_ID	AN	0-50	R	See Table A.
CUSTOMER_WEB	AN	0-50	O	See Table A.
CUSTOMER_PHONE_NUMBER	N	0-10	R	See Table A.
CUSTOMER_PHONE_EXT	N	0-5	O	See Table A.
CUSTOMER_PHONE_TYPE	A	0-1	O	See Table A.
CUSTOMER_BILLING_ADDRESS1	AN	0-30	O	See Table A.
CUSTOMER_BILLING_ADDRESS2	AN	0-30	O	See Table A.
CUSTOMER_BILLING_ADD_CITY	A	0-20	O	See Table A.
CUSTOMER_BILLING_ADD_STATE	N	0-2	O	See Table A.
CUSTOMER_BILLING_ADD_ZIP	N	5-9	C	See Table A.
CUSTOMER_SHIPPING_ADD_NAME	A	0-20	O	See Table A.
CUSTOMER_SHIPPING_ADDRESS1	AN	0-30	O	See Table A.
CUSTOMER_SHIPPING_ADDRESS2	AN	0-30	O	See Table A.
CUSTOMER_SHIPPING_ADD_CITY	A	0-20	O	See Table A.
CUSTOMER_SHIPPING_ADD_STATE	N	0-2	O	See Table A and Table 1.10 .
CUSTOMER_SHIPPING_ADD_ZIP	N	5-9	O	See Table A.
BILLTYPE	N	1	R	The type of recurring charge to create. 1 Daily 2 Weekly 3 Monthly 4 Yearly 5 Specific dates
BILLGENERATIONSPAN	N	0-2	C	<i>Required for BILLTYPEs 1, 2, 3 & 4.</i> The span in between the two recurring transactions for the "BILLTYPE" is selected. For example, if BILLTYPE is 1 (daily) and BILLGENERATIONSPAN is 2, it will charge every 2 days.
STARTDATE	AN	0-10	C	<i>Required for BILLTYPEs 1, 2, & 3.</i> The start date of recurring transactions for the selected BILLTYPE. Format: MM/DD/YYYY (e.g., 02/02/2012)
STARTDATEYEAR	N	0-4	C	<i>Required only for BILLTYPE 4 (yearly).</i> The start year of recurring transaction for the selected BILLTYPE. Format: YYYY (e.g., 2012)
ENDDATETYPE	N	0-1	C	<i>Required for BILLTYPEs 1, 2, 3, & 4.</i> The end date of recurring transactions for the selected BILLTYPE".

				<ol style="list-style-type: none"> 1 Never (charges indefinitely unless stopped). 2 After a set number of charges (see ENDBILLCOUNT). 3 On or after a specified date (see ONENDDATE).
ENDBILLCOUNT	N	0-3	C	<p><i>Required for ENDDATETYPE 2.</i></p> <p>The number of recurring charges to make (up to 999).</p>
ONENDDATE	AN	0-10	C	<p><i>Required for ENDDATETYPE 3.</i></p> <p>The date to stop processing a recurring charge on/after. Format: MM/DD/YYYY (e.g., 02/02/2014)</p>
BILLWEEKLYDAYS	N	0-27	C	<p><i>Required for BILLTYPE 2 (weekly).</i></p> <p>The week days to charge the recurring transaction; set single days by a single number (e.g., "2"); set multiple week days with a comma-separated list (e.g., "1,3,5" (Sunday, Tuesday & Thursday)).</p> <ol style="list-style-type: none"> 1 Sunday 2 Monday 3 Tuesday 4 Wednesday 5 Thursday 6 Friday 7 Saturday
MONTHTYPE	N	0-1	C	<p><i>Required for BILLTYPE 3 (monthly).</i></p> <p>The way in which the recurring charge is made each month.</p> <ol style="list-style-type: none"> 1 "on the" (for this, MDAYSPOSITION and MDAYS must be sent) 2 "each" (for this, MONTHDATE is required)
MDAYSPOSITION	N	1	C	<p><i>Required for BILLTYPE 3 & MONTHTYPE 1.</i></p> <p>The week of the month to charge on (note that MDAYS is also required).</p> <ol style="list-style-type: none"> 1 First 2 Second 3 Third 4 Fourth

				<p>5 Last week of month</p> <p>For example, if the recurring transaction is to be charged every Monday of the 2nd week, MDAYPOSITION would be set to "2" and MDAYS (see below) set to "1".</p>
--	--	--	--	---

MDAYS	AN	0-1	C	<p><i>Required for BILLTYPE 3 (monthly) & MONTHTYPE 1.</i></p> <p>1 Sunday 2 Monday 3 Tuesday 4 Wednesday 5 Thursday 6 Friday 7 Saturday</p> <p>See MDAYSPOSITION for usage example.</p>
MONTHDATE	AN	0-105	C	<p><i>Required for BILLTYPE 3 (monthly) & MONTHTYPE 2.</i></p> <p>The day number(s) of the month to charge on; multiple days must be comma-separated. To charge on the LAST day (28, 30, 31), send 32.</p> <p>For example, to charge on the 11th only, set this to "11". To charge on the 5th, 11th, and 25th, set this to "5,11,25".</p>
YMONTHNO	N	0-2	C	<p><i>Required for BILLTYPE 4 (yearly).</i></p> <p>The month of the year to charge on (the day of this month set in YMONTHDAYS (see below)). See Table 1.0 for a list of values for the months.</p> <p>For example: To charge on January 1st every year, set YMONTHNO to "1" and YMONTHDAYS to "1" (and BILLGENERATIONSPAN to "1").</p>
YMONTHDAYS	N	0-2	C	<p><i>Required for BILLTYPE 4 (yearly).</i></p> <p>The day of the month to charge (in combination with the YMONTHNO defined above). See YMONTHNO for usage example.</p>
SPECIFICRECURRINGDATES	AN	0-999	C	<p><i>Required for BILLTYPE 5 (specific dates).</i></p> <p>The dates for recurring billing transactions; a comma-separated list of MM/DD/YYYY</p>

				formatted dates, e.g., "02/22/2014,03/12/2014,05/04/2015".
CHECK_RECURRING	A	0-1	R	If ACH Recurring it should be required Y

RECURRING_NOTE	AN/S	0-250	O	An optional field describing the recurring charge. Alphanumeric characters are allowed, and these special characters: SPACE ~ ! @ # \$ % () - _ = + / [{ } . < > ^ ' ? , : ; * &
----------------	------	-------	---	--

Add Recurring Request

Example E-1 — Sample XML Request

```
<com.payhub.webpos.vt.webservice.model.RecurringServiceBO>
  <MERCHANT_NUMBER>your_merchant_no</MERCHANT_NUMBER>
  <USER_NAME>your_username</USER_NAME>
  <PASSWORD>your_password</PASSWORD>
  <TERMINAL_NUMBER>your_terminal_no</TERMINAL_NUMBER>
  <ACCOUNT_DATA_SOURCE>T</ACCOUNT_DATA_SOURCE>
  <CUSTOMER_DATA_FIELD>4111111111111111</CUSTOMER_DATA_FIELD>
  <CARD_EXPIRY_DATE>122012</CARD_EXPIRY_DATE>
  <CVV_DATA></CVV_DATA>
  <TRANSACTION_AMOUNT>333</TRANSACTION_AMOUNT>
  <CUSTOMER_FIRST_NAME>James</CUSTOMER_FIRST_NAME>
  <CUSTOMER_LAST_NAME>Streisand</CUSTOMER_LAST_NAME>
  <CUSTOMER_COMPANY_NAME>Brad's Raunch</CUSTOMER_COMPANY_NAME>
  <CUSTOMER_JOB_TITLE>Quality Analysis</CUSTOMER_JOB_TITLE>
  <CUSTOMER_EMAIL_ID>john@gmail.com</CUSTOMER_EMAIL_ID>
  <CUSTOMER_WEB>http://www.ClearGateinc.com</CUSTOMER_WEB>
  <CUSTOMER_PHONE_NUMBER>8787878787</CUSTOMER_PHONE_NUMBER>
  <CUSTOMER_PHONE_EXT>8787</CUSTOMER_PHONE_EXT>
  <CUSTOMER_PHONE_TYPE>W</CUSTOMER_PHONE_TYPE>
  <CUSTOMER_BILLING_ADDRESS1>30PostSquare </CUSTOMER_BILLING_ADDRESS1>
  <CUSTOMER_BILLING_ADDRESS2>Straightway</CUSTOMER_BILLING_ADDRESS2>
  <CUSTOMER_BILLING_ADD_CITY>Boston</CUSTOMER_BILLING_ADD_CITY>
  <CUSTOMER_BILLING_ADD_STATE>2</CUSTOMER_BILLING_ADD_STATE>
  <CUSTOMER_BILLING_ADD_ZIP>85284</CUSTOMER_BILLING_ADD_ZIP>
  <CUSTOMER_SHIPPING_ADD_NAME>James</CUSTOMER_SHIPPING_ADD_NAME>
  <CUSTOMER_SHIPPING_ADDRESS1>30PostSquare</CUSTOMER_SHIPPING_ADDRESS1>
  <CUSTOMER_SHIPPING_ADDRESS2>Straightway</CUSTOMER_SHIPPING_ADDRESS2>
  <CUSTOMER_SHIPPING_ADD_CITY>Boston</CUSTOMER_SHIPPING_ADD_CITY>
  <CUSTOMER_SHIPPING_ADD_STATE>2</CUSTOMER_SHIPPING_ADD_STATE>
  <CUSTOMER_SHIPPING_ADD_ZIP>85284</CUSTOMER_SHIPPING_ADD_ZIP>
  <BILLTYPE>1</BILLTYPE>
  <BILLGENERATIONSPAN>2</BILLGENERATIONSPAN>
  <STARTDATE>20/06/2012</STARTDATE>
  <STARTDATEYEAR></STARTDATEYEAR>
  <ENDDATETYPE>1</ENDDATETYPE>
  <ENDBILLCOUNT></ENDBILLCOUNT>
  <ONENDDATE></ONENDDATE>
  <BILLWEEKLYDAYS></BILLWEEKLYDAYS>
  <MONTHTYPE></MONTHTYPE>
  <MDAYSPOSITION></MDAYSPOSITION>
```

```

<MDAYS></MDAYS>
<MONTHDATE></MONTHDATE>
<YMONTHNO></YMONTHNO>
<YMONTHDAYS></YMONTHDAYS>
<SPECIFICRECURRINGDATES></SPECIFICRECURRINGDATES>
<RECURRING_NOTE></RECURRING_NOTE>
</com.cleargate.webpos.vt.webservice..model.RecurringServiceBO>

```

Example E-2 — Sample JSON Request

```

{
  "MERCHANT_NUMBER": "your_merchant_no",
  "USER_NAME": "your_username",
  "PASSWORD": "your_password",
  "TERMINAL_NUMBER": "your_terminal_no",
  "ACCOUNT_DATA_SOURCE": "T",
  "CUSTOMER_DATA_FIELD": "4111111111111111",
  "CARD_EXPIRY_DATE": "122012",
  "CVV_DATA": "",
  "TRANSACTION_AMOUNT": "333",
  "CUSTOMER_FIRST_NAME": "James",
  "CUSTOMER_LAST_NAME": "Streisand",
  "CUSTOMER_COMPANY_NAME": "Brad's Raunch",
  "CUSTOMER_JOB_TITLE": "Quality Analysis",
  "CUSTOMER_EMAIL_ID": "john@gmail.com",
  "CUSTOMER_WEB": "http://www.ClearGateinc.com",
  "CUSTOMER_PHONE_NUMBER": "8787878787",
  "CUSTOMER_PHONE_EXT": "8787",
  "CUSTOMER_PHONE_TYPE": "W",
  "CUSTOMER_BILLING_ADDRESS1": "30PostSquare",
  "CUSTOMER_BILLING_ADDRESS2": "Straightway",
  "CUSTOMER_BILLING_ADD_CITY": "Boston",
  "CUSTOMER_BILLING_ADD_STATE": "2",
  "CUSTOMER_BILLING_ADD_ZIP": "85284",
  "CUSTOMER_SHIPPING_ADD_NAME": "James",
  "CUSTOMER_SHIPPING_ADDRESS1": "30PostSquare",
  "CUSTOMER_SHIPPING_ADDRESS2": "Straightway",
  "CUSTOMER_SHIPPING_ADD_CITY": "Boston",
  "CUSTOMER_SHIPPING_ADD_STATE": "2",
  "CUSTOMER_SHIPPING_ADD_ZIP": "85284",
  "BILLTYPE": "1",
  "BILLGENERATIONSPAN": "2",
  "STARTDATE": "02/22/2012",
  "STARTDATEYEAR": "2012",
  "ENDDATETYPE": "1",
  "ENDBILLCOUNT": "",
  "ONENDDATE": "",
  "BILLWEEKLYDAYS": "",
  "MONTHTYPE": "",
  "MDAYSPOSITION": "",
  "MDAYS": "",
  "YMONTHNO": "",
  "YMONTHDAYS": "",
  "SPECIFICRECURRINGDATES": "",
  "RECURRING_NOTE": ""
}

```

Example E-3 — Sample JSON Request for ACH Recurring

```

{
  "CHECK_RECURRING": "Y",
}

```

```

"MERCHANT_NUMBER":"your_merchant_no",
"USER_NAME":"your_username",
"PASSWORD":"your_password",
"TERMINAL_NUMBER":"your_terminal_no",
"CHECK_FIRST_NAME":"Test",
"CHECK_LAST_NAME":"Test",
"CHECK_ACCOUNT_TYPE":"Checking",
"CHECK_ACCOUNT_NUMBER":"your_account_number ",
"CHECK_ROUTING_NUMBER":"your_routing_number",
"TRANSACTION_AMOUNT":"1",
"CUSTOMER_FIRST_NAME":"Test",
"CUSTOMER_LAST_NAME":"Test",
"CUSTOMER_COMPANY_NAME":"",
"CUSTOMER_JOB_TITLE":"",
"CUSTOMER_EMAIL_ID":"your_mail_id",
"CUSTOMER_WEB":"",
"CUSTOMER_PHONE_NUMBER":"",
"CUSTOMER_PHONE_EXT":"",
"CUSTOMER_PHONE_TYPE":"W",
"CUSTOMER_BILLING_ADDRESS2":"",
"CUSTOMER_BILLING_ADDRESS1":"",
"CUSTOMER_BILLING_ADD_CITY":"",
"CUSTOMER_BILLING_ADD_STATE":"",
"CUSTOMER_BILLING_ADD_ZIP":"",
"CUSTOMER_SHIPPING_ADD_NAME":"",
"CUSTOMER_SHIPPING_ADDRESS1":"",
"CUSTOMER_SHIPPING_ADDRESS2":"",
"CUSTOMER_SHIPPING_ADD_CITY":"",
"CUSTOMER_SHIPPING_ADD_STATE":"",
"CUSTOMER_SHIPPING_ADD_ZIP":"",
"BILLTYPE":"1",
"BILLGENERATIONSPAN":"1",
"STARTDATE":"10/11/2014",
"STARTDATEYEAR":"2014",
"ENDDATETYPE":" ",
"ENDBILLCOUNT":" ",
"ONENDDATE":"",
"BILLWEEKLYDAYS":"",
"MONTHTYPE":"",
"MDAYSPOSITION":"",
"MDAYS":"",
"YMONTHNO":"",
"YMONTHDAYS":"",
"SPECIFICRECURRINGDATES":"",
"RECURRING_NOTE":"",
"MONTHDATE":"",
"TRANSACTION_NOTE":"",
"CHK_FLAG":"1"
}
    
```

Add Recurring Response Parameters

- Table F

Parameter	T	L	R	Description
MERCHANT_NUMBER	N	5-11	R	See Table A.
USER_NAME	AN	10	R	See Table A.

PASSWORD	AN	10	R	See Table A.
TERMINAL_NUMBER	N	1-11	R	See Table A.
RECURRING_ID	N	0-12	C	Recurring transaction unique Id will be returned for add recurring billing transaction if it is created successfully; must be used to update the status.
RESPONSE_MESSAGE	AN	0-50	R	Contains the response message. For all Recurring transactions the response message will contain an error response or successful message.
RESPONSE_CODE	N	1-4	R	This field contains the response code. (See Table 1.6)

Add Recurring – Response

Example F-1 — Sample XML Response

```
<com.payhub.webpos.vt.webservice.model.AddRecurringServiceResBO>
  <RECURRING_ID>123123</RECURRING_ID>
  <RESPONSE_MESSAGE>RECURRING BILL ADDED</RESPONSE_MESSAGE>
  <RESPONSE_CODE>4062</RESPONSE_CODE>
  <RECURRING_CUSTOMER_ID>21</RECURRING_CUSTOMER_ID>
</com.cleargate.webpos.vt.webservice.model.AddRecurringServiceResBO>
```

Example F-2 — Sample JSON Response

```
{
  "RECURRING_ID": "123123",
  "RESPONSE_MESSAGE": "RECURRING BILL ADDED",
  "RESPONSE_CODE": "4062",
  "RECURRING_CUSTOMER_ID": "21"
}
```

Modify Recurring Status - Request Parameters

- Table G

Parameter	T	L	R	Description
MERCHANT_NUMBER	N	1-11	R	See Table A.
USER_NAME	AN	10	R	See Table A.
PASSWORD	AN	10	R	See Table A.
TERMINAL_NUMBER	N	1-11	R	See Table A.
RECURRING_ID	N	1-12	C	Recurring transaction unique Id will be returned for add recurring billing transaction if it is created successfully. This Recurring Id is used to identify unique recurring transaction in the system.
RECURRING_STATUS	A	1	R	The status to set for the recurring transaction.

				1	Active/Activate
				2	Pause
				3	Cancel

Modify Recurring Status – Request

Example G-1 — **Sample XML Request**

```
<com.payhub.webpos.vt.webservice.model.RecurringServiceBO>
  <MERCHANT_NUMBER>your_merchant_no</MERCHANT_NUMBER>
  <USER_NAME>your_username</USER_NAME>
  <PASSWORD>your_password</PASSWORD>
  <TERMINAL_NUMBER>your_terminal_no</TERMINAL_NUMBER>
  <RECURRING_ID>123123</RECURRING_ID>
  <RECURRING_STATUS>1</RECURRING_STATUS>
</com.cleargate.webpos.vt.webservice.model.RecurringServiceBO>
```

Example G-2 — **Sample JSON Request**

```
{
  "MERCHANT_NUMBER": "your_merchant_no",
  "USER_NAME": "your_username",
  "PASSWORD": "your_password",
  "TERMINAL_NUMBER": "your_terminal_no",
  "RECURRING_ID": "123123",
  "RECURRING_STATUS": "1"
}
```

Modify Recurring Status - Response Parameters

- Table H

Parameter	T	L	R	Description
RESPONSE_MESSAGE	AN	0-50	R	For all Recurring transactions the response message containing error response message or successful message.
RESPONSE_CODE	N	1-4	R	See Table B.
RECURRING_ID	N	0-12	C	The Recurring ID affected (the same as in the request)

- **Modify Recurring Status – Response**

Example H-1 — **Sample XML Response**

```
<com.payhub.webpos.vt.webservice.model.RecurringServiceResBO>
  <RECURRING_ID>123123</RECURRING_ID>
  <RESPONSE_MESSAGE>APPROVED</RESPONSE_MESSAGE>
  <RESPONSE_CODE>0</RESPONSE_CODE>
</com.cleargate.webpos.vt.webservice.model.RecurringServiceResBO>
```

Example H-2 — **Sample JSON Response**

```
{
  "RECURRING_ID": "123123",
  "RESPONSE_MESSAGE": "APPROVED",
  "RESPONSE_CODE": "0"
}
```

Batch Request Parameters

- Table I

Parameter	T	L	R	Description
MERCHANT_NUMBER	N	1-11	R	See Table A.
USER_NAME	AN	10	R	See Table A.
PASSWORD	AN	10	R	See Table A.
TERMINAL_NUMBER	N	1-11	R	See Table A.
BATCH_ID	N	1-15	R	The batch ID to capture (returned in each transaction response).
TRANSACTION_CODE	AN	2	R	Identifies the transaction type. 00 for BATCH. (See Table 1.1)

Batch Capture Request

Example I-1 — Sample JSON Request

```
{
  "MERCHANT_NUMBER": your_merchant_no,
  "USER_NAME": "your_username",
  "PASSWORD": "your_password",
  "TERMINAL_NUMBER": your_terminal_no,
  "TRANSACTION_CODE": 00,
  "BATCH_ID": "43"
}
```

Example I-2 — Sample XML Request

```
<com.payhub.webpos.vt.webservice.model.TransactionReqBO>
  <MERCHANT_NUMBER>10028</MERCHANT_NUMBER>
  <TERMINAL_NUMBER>43</TERMINAL_NUMBER>
  <USER_NAME>your_username</USER_NAME>
  <PASSWORD>your_password</PASSWORD>
  <BATCH_ID>352</BATCH_ID>
  <TRANSACTION_CODE>00</TRANSACTION_CODE>
</com.cleargate.webservice.vt.model.TransactionReqBO>
```

Batch Capture Response Parameters

- Table J

Parameter	T	L	R	Description
RESPONSE_CODE	AN	4	R	See Table B.
RESPONSE_TEXT	AN	50	R	This field will contain the text "ACCEPTED" when a settlement batch has been successfully received by the host; however, the POS device should examine only the Batch Response code to determine the status of particular batch status.
TRANSACTION_DATE_TIME	AN	0-2 5	O	Identifies the ClearGate system date and time when the batch transaction is entered in the ClearGate gateway system. Format : YYYY-MM-DD HH:MM:SS e.g., 2012-05-15 15:54:55

Batch Capture Response

Example J-1 — Sample JSON Response

```
{
  "RESPONSE_CODE": "GB",
  "RESPONSE_TEXT": "ACCEPTED",
  "TRANSACTION_DATE_TIME": "2012-06-26 14:44:44"
}
```

Example J-2 — Sample XML Response

```
<com.payhub.webpos.vt.webservice.model.BatchResBO>
  <RESPONSE_CODE>GB</RESPONSE_CODE>
  <RESPONSE_TEXT>ACCEPTED</RESPONSE_TEXT>
  <TRANSACTION_DATE_TIME>2012-06-26 14:44:44</TRANSACTION_DATE_TIME>
</com.cleargate.vt.webservices.model.BatchResBO>
```

ACH Return Report Request Parameters

- Table K

Parameter	T	L	R	Description
MERCHANT_NUMBER	N	5-11	R	See Table A.
USER_NAME	AN	10	R	See Table A.
PASSWORD	AN	10	R	See Table A.
TERMINAL_NUMBER	N	1-11	R	See Table A.
START_DATE	AN	0-10	C	The start date of ACH Return Report . Format: MM/DD/YYYY (e.g., 02/02/2012)
END_DATE	AN	0-10	C	The end date of ACH Return Report . Format: MM/DD/YYYY (e.g., 02/02/2012)

ACH Return Report Transaction Request

Example K-1 — Sample JSON Request

```
{
  "MERCHANT_NUMBER": "your_merchant_no",
  "USER_NAME": "your_username",
  "PASSWORD": "your_password",
  "TERMINAL_NUMBER": "your_terminal_no",
  "START_DATE": "your_start_date",
  "END_DATE": "your_end_date"
}
```

ACH Return Report Response Parameters

- Table L

Parameter	T	L	R	Description
RESPONSE_CODE	AN	2-4	R	See Table B.

RESPONSE_MESSAGE	AN	0-5 0	R	See Table B.
returnReportBO	AN		O	Contains ACH Return Report Data List.
returnReportSummaryBO	AN			Contains ACH Return Report Summary List.

ACH Return Report Transaction Response

Example L-1 — Sample JSON Response

```
{
  "returnReportBO":[
    {
      "amount":"$0.01",
      "returnCode":"R03",
      "accountId":"2",
      "operationType":"Sale",
      "status":"Invalid / Closed Account",
      "description":"No Account/Unable to Locate Account",
      "referenceNumber":"",
      "batchID":"",
      "transactionNumber":"",
      "transactionID":"",
      "nameOnAccount":"test test"
    },
    {
      "amount":"$0.01",
      "returnCode":"R16",
      "accountId":"2",
      "operationType":"Sale",
      "status":"Invalid / Closed Account",
      "description":"Account Frozen",
      "referenceNumber":"",
      "batchID":"",
      "transactionNumber":"",
      "transactionID":"",
      "nameOnAccount":"test test"
    }
  ],
  "returnReportSummaryBO":[
    {
      "amount":"$0.01",
      "percentage":"50.00%",
      "status":"Invalid / Closed Account",
      "description":"No Account/Unable to Locate Account",
      "quantity":"1",
      "type":"R03"
    },
    {
      "amount":"$0.01",
      "percentage":"50.00%",
      "status":"Invalid / Closed Account",
      "description":"Account Frozen",
      "quantity":"1",
      "type":"R16"
    }
  ]
}
```

```

    "amount": "$0.02",
    "percentage": "100.00%",
    "status": "",
    "description": "",
    "quantity": "2",
    "type": "Total"
  }
],
"RESPONSE_MESSAGE": "SUCCESS",
"RESPONSE_CODE": "4206"
}

```

Signature capture Request Parameters

- Table M

Parameter	T	L	R	Description
TRANSACTION_ID	N	1-15	R	The TRANSACTION_ID for capture Signature
SIGNATUTRE	HEX A	1-15 0	R	Signature Capture through device

Signature capture Request

Example M-1 — Sample JSON Request

```

{
  "TRANSACTION_ID": "6142"
  "SIGNATURE_TRANSACTION": "Your Transaction Signature Hexadecimal Foramt"
}

```

Signature capture Response Parameters

- Table N

Parameter	T	L	R	Description
RESPONSE_CODE	AN	2-4	R	See Table B.
RESPONSE_TEXT	AN	0-5 0	R	See Table B.

Signature capture Response

Example N-1 — **Sample JSON Response**

```
{
  "RESPONSE_CODE": "4211",
  "RESPONSE_TEXT": "SIGNATURE UPDATED ",
  "TRANSACTION_ID": "6142"
}
```

Gift Card Request Parameters

- Table O

Balance Inquiry

Parameter	T	L	R	Description
GIFT_CARD_NUMBER	N	1-15	R	The GIFT_CARD_NUMBER for Gift Card Balance Inquiry .
GIFT_TRANSACTION_TYPE	N	1-2	R	The Transaction type for Gift Card Balance Inquiry '5'.

Gift Card Balance Inquiry Request

Example O-1 — **Sample JSON Request**

```
{
  "GIFT_CARD_NUMBER": "0000007139744"
  "GIFT_TRANSACTION_TYPE": "5"
}
```

Gift Card Balance Inquiry Response Parameters

- Table P

Parameter	T	L	R	Description
RESPONSE_CODE	AN	2-4	R	See Table B.
RESPONSE_TEXT	AN	0-5 0	R	See Table B.
GIFT_BALANCE_AMOUNT	AN	0-1 0	R	See Table B.

Gift Card Balance Inquiry Response

Example P-1 — **Sample JSON Response**

```
{
  "RESPONSE_CODE": "4214",
}
```

```

"RESPONSE_TEXT": "Gift Card balance retrieved successfully ",
}

```

Redemption

Table: Q

Parameter	T	L	R	Description
GIFT_CARD_NUMBER	N	1-15	R	The GIFT_CARD_NUMBER for gift card Redemption .
GIFT_TRANSACTION_TYPE	N	1-2	R	The GIFT_TRANSACTION_TYPE for Gift Card Redemption '6'.
GIFT_CARD_REDEMPTION_AMOUNT	N	1-10	R	The Gift_CARD_REDEMPTION_AMOUNT for Gift Card Redemption '\$1.00';

Gift Card Redemption Request

Example Q-1 — Sample JSON Request

```

{
  "GIFT_CARD_NUMBER": "0000007139744"
  "GIFT_TRANSACTION_TYPE": "6"
  "GIFT_REDEMPTION_AMOUNT": "1.00"
}

```

Gift Card Redemption Response Parameters

- Table R

Parameter	T	L	R	Description
RESPONSE_CODE	AN	2-4	R	See Table B.
RESPONSE_TEXT	AN	0-5 0	R	See Table B.
GIFT_BALANCE_AMOUNT	N	0-1 0	R	See Table B.
GIFT_CAPTURED_AMOUNT	N	0-1 0	R	See Table B.

Gift Card Redemption Inquiry Response

Example R-1 — Sample JSON Response

```
{
  "RESPONSE_CODE": "4215",
  "RESPONSE_TEXT": "Redemption Amount Captured successfully ",
  "GIFT_BALANCE_AMOUNT": "1500",
  "GIFT_CAPTURED_AMOUNT": "1.00",
}
```

Partial Redemption

Table: S

Parameter	T	L	R	Description
GIFT_CARD_NUMBER	N	1-15	R	The GIFT_CARD_NUMBER for gift card Partial Redemption .
GIFT_TRANSACTION_TYPE	N	1-2	R	The GIFT_TRANSACTION_TYPE for Gift Card Partial Redemption '10'.
GIFT_CARD_REDEMPTION_AMOUNT	N	1-10	R	The Gift_CARD_REDEMPTION_AMOUNT for Gift Card Partial Redemption '\$1.00';

Gift Card Partial Redemption Request

Example S-1 — **Sample JSON Request**

```
{
  "GIFT_CARD_NUMBER": "0000007139744"
  "GIFT_TRANSACTION_TYPE": "10"
  "GIFT_REDEMPTION_AMOUNT": "1.00"
}
```

Gift Card Partial Redemption Response Parameters

• Table :T

Parameter	T	L	R	Description
RESPONSE_CODE	AN	2-4	R	See Table B.
RESPONSE_TEXT	AN	0-5 0	R	See Table B.
GIFT_BALANCE_AMOUNT	N	0-1 0	R	See Table B.

GIFT_CAPTURED_AMOUNT	N	0-1 0	R	See Table B.
----------------------	---	----------	---	--------------

Gift Card Partial Redemption Response

Example: T-1 — Sample JSON Response

```
{
  "RESPONSE_CODE": "4216",
  "RESPONSE_TEXT": "Partial Redemption Amount Captured successfully ",
  "GIFT_BALANCE_AMOUNT": "1500"
  "GIFT_CAPTURED_AMOUNT": "1.00"
}
```

Add Value

Table: U

Parameter	T	L	R	Description
GIFT_CARD_NUMBER	N	1-15	R	The GIFT_CARD_NUMBER for gift card Add Value .
GIFT_TRANSACTION_TYPE	N	1-2	R	The GIFT_TRANSACTION_TYPE for Gift Card Add Value '7'.
GIFT_CARD_REDEMPTION_AMOUNT	N	1-10	R	The Gift_CARD_REDEMPTION_AMOUNT for Gift Card Add Value '\$1000.00';

Gift Card Add Value Request

Example U-1 — Sample JSON Request

```
{
  "GIFT_CARD_NUMBER": "0000007139744"
  "GIFT_TRANSACTION_TYPE": "7"
  "GIFT_REDEMPTION_AMOUNT": "1000.00"
}
```

Gift Card Add Value Response Parameters

- Table: V

Parameter	T	L	R	Description
RESPONSE_CODE	AN	2-4	R	See Table B.

RESPONSE_TEXT	AN	0-5 0	R	See Table B.
GIFT_BALANCE_AMOUNT	N	0-1 0	R	See Table B.
GIFT_CARD_ADDED_AMOUNT	N	0-1 0	R	See Table B.

Gift Card Add Value Response

Example: V-1 — **Sample JSON Response**

```
{
  "RESPONSE_CODE": "4217",
  "RESPONSE_TEXT": "Amount added to the card successfully ",
  "GIFT_BALANCE_AMOUNT": "2000"
  "GIFT_CARD_ADDED_AMOUNT": "1500"
}
```

Balance Transfer

Table: W

Parameter	T	L	R	Description
GIFT_CARD_NUMBER	N	1-15	R	The GIFT_CARD_NUMBER for gift card Balance Transfer .
TO_GIFT_CARD_NUMBER	N	1-2	R	The GIFT_TRANSACTION_TYPE for Gift Card Balance Transfer '8'.

Gift Card Balance Transfer Request

Example W-1 — **Sample JSON Request**

```
{
  "GIFT_CARD_NUMBER": "0000007139744",
  "TO_GIFT_CARD_NUMBER": "0000007139322",
  "GIFT_TRANSACTION_TYPE": "8"
}
```


Gift Card Balance Transfer Response Parameters

- Table: X

Parameter	T	L	R	Description
RESPONSE_CODE	AN	2-4	R	See Table B.
RESPONSE_TEXT	AN	0-5 0	R	See Table B.

Gift Card Balance Transfer Response

Example: X-1 — **Sample JSON Response**

```
{
  "RESPONSE_CODE": "4218",
  "RESPONSE_TEXT": "Gift Card Balance Transferred successfully ",
}
```

Status Change

Table: Y

Parameter	T	L	R	Description
GIFT_CARD_NUMBER	N	1-15	R	The GIFT_CARD_NUMBER for gift card Status Change .
GIFT_TRANSACTION_TYPE	N	1-2	R	The GIFT_TRANSACTION_TYPE for Gift Card Status Change '9'.
GIFT_CARD_STATUS	N	1-5	R	The GIFT_CARD_STATUS for Gift Card Status Change. 1-OK 2-Lost/Damaged 3-Stolen/Fraud 4-Expired 5-Corporate Block

Gift Card Status Change Request

Example Y-1 — **Sample JSON Request**

```
{
  "GIFT_CARD_NUMBER": "0000007139744"
  "GIFT_TRANSACTION_TYPE": "g"
  "GIFT_CARD_STATUS": "1"
}
```

Gift Card Status Change Response Parameters

- Table: Z

Parameter	T	L	R	Description
RESPONSE_CODE	AN	2-4	R	See Table B.
RESPONSE_TEXT	AN	0-5 0	R	See Table B.

Gift Card Status Change Response

Example: Z-1 — **Sample JSON Response**

```
{
  "RESPONSE_CODE": "4219",
  "RESPONSE_TEXT": "Gift card status changed successfully ",
}
```

Gift Card Void Transaction

Table: Y

Parameter	T	L	R	Description
TRANSACTION_ID	N	1-15	R	The Transaction Id for Gift Card void transaction.
TRANSACTION_NOTE	A	1-50	O	The Notes for Gift Card Void transaction.
GIFT_TRANSACTION_TYPE	N	1-5	R	The GIFT_TRANSACTION_TYPE for Gift Card void transaction "03"

Gift Card Void Request

Example Y-1 — **Sample JSON Request**

```
{
  "TRANSACTION_ID": "6895",
}
```

```

"GIFT_TRANSACTION_TYPE":"03",
"TRANSACTION_NOTE": "void"
}
    
```

Gift Card Void Response Parameters

- Table: Z

Parameter	T	L	R	Description
RESPONSE_CODE	AN	2-4	R	See Table B.
RESPONSE_TEXT	AN	0-5 0	R	See Table B.

Gift Card Void Change Response

Example: Z-1 — **Sample JSON Response**

```

{
"RESPONSE_CODE": "4232",
"RESPONSE_TEXT": "Gift card void transaction successfully processed",
}
    
```

Gift Card Activation

Table: A1

Parameter	T	L	R	Description
GIFT_CARD_NUMBER	N	1-15	R	The GIFT_CARD_NUMBER for gift card Activation .
GIFT_TRANSACTION_TYPE	N	1-2	R	The GIFT_TRANSACTION_TYPE for Gift Card Add Value '11'.
GIFT_CARD_REDEMPTION_AMOUNT	N	1-10	R	The Gift_CARD_REDEMPTION_AMOUNT for Gift Card Add Value '\$1000.00';

Gift Card Activation Request

Example A1-1 — **Sample JSON Request**

```

{
"GIFT_CARD_NUMBER":"0000007139744"
"GIFT_TRANSACTION_TYPE":"11"
"GIFT_REDEMPTION_AMOUNT":"1000.00"
}
    
```

Gift Card Activation Response Parameters

- Table: B1

Parameter	T	L	R	Description
RESPONSE_CODE	AN	2-4	R	See Table B.
RESPONSE_TEXT	AN	0-5 0	R	See Table B.
GIFT_CARD_ADDED_AMOUNT	N	0-1 0	R	See Table B.

Gift Card Activation Response

Example: B1-1 — Sample JSON Response

```
{
  "RESPONSE_CODE": "4217",
  "RESPONSE_TEXT": "Gift card activated successfully ",
  "GIFT_CARD_ADDED_AMOUNT": "1500"
}
```

Receipt Request Parameters

- Table O

Parameter	T	L	R	Description
MERCHANT_NUMBER	N	5-11	R	See Table A.
USER_NAME	AN	10	R	See Table A.
PASSWORD	AN	10	R	See Table A.
TERMINAL_NUMBER	N	1-11	R	See Table A.
TRANSACTION_ID	N	1-15	R	The TRANSACTION_ID for print Receipt

Receipt Request

Example O-1 — Sample JSON Request

```
{
  "MERCHANT_NUMBER": "your_merchant_no",
  "USER_NAME": "your_username",
  "PASSWORD": "your_password",
  "TERMINAL_NUMBER": "your_terminal_no",
  "TRANSACTION_CODE": "16",
  "TRANSACTION_ID": "3534"
}
```

Receipt Response Parameters

- Table P

Parameter	T	L	R	Description
RESPONSE_CODE	AN	2-4	R	See Table B.
RESPONSE_TEXT	AN	0-5 0	R	Receipt data in html format

Receipt Response

Example P-1 — Sample JSON Response

```
{
  "RESPONSE_CODE": "5010",
  "RESPONSE_TEXT": "<html><head><p><div style='position: relative; top: 22px; left: 79.5px; margin-top:-206px;margin-left:-80px;position:fixed; _position:absolute; /*width:400px;/*height:296px;*/ background:#E3F0F0; z-index:2; padding:0px; font-size:13px;*><div style='margin-top: 180px;width: 326px;width:500px; border-top:21px solid #FFFFFF; border text-align:center; -moz-box-shadow: 0 0 5px #999; -webkit-box-shadow: 0 0 5px #999; box-shadow: 0 0 5px #999;*><div style='margin-top:-201px; width:237px;width:410px; margin:0px; padding:25px 50px 10px 42px; border-top: 0px solid #fff; text-align:center; font: 14px Arial, Verdana, Helvetica, sans-serif;line-height:18px; background:#fff url() repeat-x;*><b>TSYS DEMO Test</b><br/><b>639 Isbell Rd ste 330<br/>renoNevada89509<br/>(775) 336-6886<br/><br/><br/>Cashier :testuser<br/>Terminal 1 | Virtual Terminal<br/>Receipt :3534<br/>01/21/2015 07:32:54 PM<br/><br/><br/><div style='margin-left: -20px; margin-top: -27px;width:243px; padding:0px 0px 22px 0px; margin:0px; font: 13px Arial, Verdana, Helvetica, sans-serif;line-height:18px;*><table width=162%*><tr*><td align='left'><td align='right'><b>1.01</b></td*></td*></tr*><tr*><td align='left'>Shipping Amount : <td align='right'><b>0.00</b></td*></td*></tr*><tr*><td align='left'>Tax : <td align='right'><b>0.00</b></td*></td*></tr*><tr*><td align='left'>Total : <td align='right'><b>1.01</b></td*></td*></tr*></table*></div*><div style='margin-left: -20px; margin-top: -27px; width:243px; padding:0px 0px 22px 0px; margin:0px; font: 13px Arial, Verdana, Helvetica, sans-serif;line-height:18px;*><table width=118%*><tr*><td align='left'><b>_____</b></td*></td*></tr*><tr*><td align='left'>VISA Ending in 8980</td*></td*></tr*><tr*><td align='left'>Base : <td align='right'>1.01</td*></td*></tr*><tr*><td align='left'>Total Tendered : <td align='right'>1.01</td*></td*></tr*><tr*><td align='left'>Transaction Type : <td align='right'>Sale</td*></td*></tr*><tr*><td align='left'>Action : <td align='right'>Manual</td*></td*></tr*><tr*><td align='left'>Transaction # : <td align='right'>3534</td*></td*></tr*><tr*><td align='left'>Batch # : <td align='right'>621</td*></td*></tr*><tr*><td align='left'>Approval Code : <td align='right'>TAS582</td*></td*></tr*><tr*><td align='left'>Date : Jan 21, 2015 7:32:54 PM</td*></td*></tr*><tr*><td align='left'>Result : <td align='right'>Successful</td*></td*></tr*></table*></div*><table width=118%*><tr*><td align='left'><b>Signature :</b></td*></tr*></table*></div*><img id='signimg' src=' AAAQAAAAAAAA\r\nAAEBAQACAgIAAwMDAAQEBAAFBQUABGyGAACHBwAICAgACQkJAAoKCGALCwsADAwMAA0NDQAOD g4A\r\nDw8PABAQEAAREREAehISABMTEwAUFBQAFRUVABYWFgAXFxcAGBgYABkZGQAaGhoAGxsbABwCCHAAd\r\nHR0 AHh4eAB8fHwAglCAAISEhACiIlgAjlyMAJCQKACUIJQAmJiYAJycnACgoKAApKSKAKioqACsr\r\nnKwAsLCwALS0tAC4uLgAvLy 8AMDawADExMQAyMjIAMzMzADQ0NAA1NTUANjY2ADc3NwA4ODgAOTk5\r\nr\r\nADo6OgA7OzsAPDw8AD09PQA+Pj4APz8/A EBAQABBQUEAQKJCAENDQwBEREQARUVFAEZGRgBHR0cA\r\nr\r\nSEhIAEIJSQBKSkoAS0tLAExMTABNTU0ATk5OAE9PTw BQUFAAUVFRAFJSUgBTU1MAVFRUAFVVBQBW\r\nr\r\nr\r\nViyAV1dXAFhYWABZwVvKAWlpAFtbWwBcXFwAXV1dAF5eXgBfX18A YGBgAGFhYQBiYmIAy2NjAGRk\r\nr\r\nr\r\nZABIZWUAZmZmAGdnZwBoaGgAaWlpAGpqagBra2sAbGxsAG1tbQBubm4Ab29vAHBwC ABxcXEAcnJy\r\nr\r\nr\r\nAHNzcwB0dHQAdXV1AHZ2dgB3d3cAeHh4AHI5eQB6enoAe3t7AHx8fAB9fX0Afn5+AH9/fwCAgIAA\r\nr\r\nngYGB AIKCGgCDg4MAhISEAIWFhQCgGhoYAh4eHALiIACJiYkAioqKAiLiWCMjIwAjY2NAI6OjgCP\r\nr\r\nr\r\nnj48AKJCQAJGRkQCSkplAK5OT AJSUIACVIZUAlpaWAJeXlwCYmJgAmZmZAJqamgCbm5sAnJycAJ2d\r\nr\r\nr\r\nnnQCenp4An5+fAKCGoAChoaEAOqKiAKOjowCkpKQ ApaWIAKampgCnp6cAqKioAKmpqQCqqoAq6ur\r\nr\r\nr\r\nAKysrACtra0Arq6uAK+vrwCwsLAAsbGxALKySgCzs7MATLS0ALW1tQC2tr YAt7e3ALi4uAC5ubkA\r\nr\r\nr\r\nnurg6ALu7uwC8vLwAvb29AL6+vgC/v78AwMDAAMHBwQDCwsiAw8PDAMTEADFxcUAxsbGAMfHx wDl\r\nr\r\nr\r\nnyMgAycnJAMrKygdLY8sAzMzAMAM3NzQDOzs4Az8/PANDQ0ADR0dEA0tLSANPT0wDU1NQA1dXVANbW\r\nr\r\nr\r\nn1gDX19c A2NjYANnZ2QDa2toA29vbANzc3ADd3d0A3t7eAN/f3wDg4OAA4eHhAOLi4gDj4+MA5OTk\r\nr\r\nr\r\nAOXI5QDm5uYA5+fnAOjo6ADp 6ekA6urqAOvr6wDs7OwA7e3tAO7u7gDv7+8A8PDwAPHx8QDy8vI\r\nr\r\nr\r\nn8/PzAPT09AD19fUA9vb2APf39wD4+PgA+fn5APr6+g D7+/sAPz8AP39/QD+/v4A////APr/AAD6\r\nr\r\nr\r\nn/wAA+v8AAPr/AAD6/wAA+v8AAPr/AAD6/wAA+v8AAPr/AAD6/wAA+v8AAPr/AAD6/wAA+v8AAPr/AAD6/w\r\nr\r\nr\r\nAAARf8B0gHA\r\nr\r\nr\r\nAdIbnQc9AdlO/wHSBj0BnQHSACAB/JD/AABC/wLSAcAEPQGdAdlFPQHSDv8B0gE9BNIbnQM9AWsB\r\nr\r\nr\r\nnw AH8jv8AAED/AdIbnQM9AWsBwAPSAj0D0gI9AZ0B0gz/AdIDPQGdAdIb/wLSAcACPQFrAcAB0gHA\r\nr\r\nr\r\nnAfYk/wAAPv8B0gGdAj0
```

```
BnQHSAcAB/AL/AdICPQLSAZ0FPQGdAtIBwAH8CP8C0gGdAj0B0gP/AdIB\r\nwAQ9AWsBwAH8iP8AAD3/AdICPQGdAdIG/w
HSBT0BnQE9AZ0B0gGdBD0BawHAAAdIJ/wHSAj0B0gT/\r\nAdIBwAHSACACPQFrAcAB0ob/AAA5/wLSAf8B0gI9AdIG/wfSAZ0B
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Z0CPQGd\r\nAfwD/wGdAj0B0q//AAA5/wLSAZ0EPQGdAdIG/wLSsP8AADz/BNK6/wAA+v8AAPr/AAD6/wAA+v8A\r\nA\r\nAAD6/
wAA+v8AAPr/AAD6/wAA+v8AAPr/AAD6/wAA+v8AAPr/AAD6/wAA+v8AAPr/AAAAAa4E\r\nA\r\nAADkCAAA\r\n'/></td></tr><tr><td
align='right'><b></b></td></tr></table></div></div></div><div style='display:none; position:fixed; _position:absolute; height:100%;
width:100%; top:0; left:0; background:#000000; border:1px solid #000; z-index:9999;'></div></head></html>",
}
```

How to Test Transaction API

In this section to test the Transaction API only a Java test scenario is used. All code is written in java.

Java Prerequisites to Test Client Transaction Web Service

Jars Required

1	commons-logging-4.0.6
2	httpclient-4.1.1
3	httpcore-4.1
4	httpmime-4.1.1
5	json

Sample Test JSON Client

```
import java.io.IOException;
import java.io.InputStream;
import java.io.UnsupportedEncodingException;
import org.apache.http.HttpResponse;
import org.apache.http.client.ClientProtocolException;
import org.apache.http.client.HttpClient;
import org.apache.http.client.methods.HttpPost;
import org.apache.http.entity.StringEntity;
import org.apache.http.impl.client.DefaultHttpClient;
```

```

import org.apache.http.params.HttpConnectionParams;
import org.json.JSONException;
import org.json.JSONObject;

/**
 * @author : ClearGate Inc
 * @Created Date : Sep 21, 2013
 * @Description : To call REST JSON Web Service
 * @Copyright ClearGate Inc.
 */
public class TestJSONClient {

    public static void main(String[] args){
        try {
            /**
             * Init Parameter
             */
            HttpClient client = new DefaultHttpClient();
            HttpConnectionParams.setConnectionTimeout(client.getParams(), 10000);
            HttpResponse response;
            StringEntity se;
            HttpPost postCreate;
            JSONObject jsonRequestObject = new JSONObject();
            String createJsonURL = "";

            /**
             * Build JSON Request Object
             * Set any sample request here as shown in sample message formats.
             */
            jsonRequestObject.put("RECORD_FORMAT ", "CC");
            jsonRequestObject.put("MERCHANT_NUMBER ", "your_merchant_no");
            jsonRequestObject.put("USER_NAME ", "your_username");
            ..
            ..
            ..
            System.out.println("JSON REQUEST : " + jsonRequestObject.toString());

            createJsonURL =
"https://vtstaging.cleargate.com/cleargatetws/transaction.json";
            postCreate = new HttpPost(createJsonURL);

            se = new StringEntity(jsonRequestObject.toString());
            postCreate.setEntity(se);

            /**
             * Execute JSON URL for web service call
             */
            response = client.execute(postCreate);

            int cnt = 0;
            String jsonResponse = "";
            InputStream in;

            if (response != null) {
                System.out.println("---- GETTING RESPONSE FROM WEB SERVICE -----");
                in = response.getEntity().getContent(); // Get the data in the entity

                while((cnt = in.read()) > -1) {
                    jsonResponse += (char) cnt;
                }
            }
        }
    }
}

```

```

        System.out.println("JSON RESPONSE: " + jsonResponse);
    }
}
catch(JSONException e) {
    System.out.println("JSONException : "+e.getMessage());
}
catch(UnsupportedEncodingException e) {
    System.out.println("UnsupportedEncodingException : "+e.getMessage());
}
catch(ClientProtocolException e) {
    System.out.println("ClientProtocolException : "+e.getMessage());
}
catch(IOException e) {
    System.out.println("IOException : "+e.getMessage());
}
catch(Exception e) {
    System.out.println("Exception : "+e.getMessage());
}
}
}

```

Note: Above code can be use to call mentioned JSON type web services.

Sample Test XML Client

```

import java.io.IOException;
import java.io.InputStream;
import java.io.UnsupportedEncodingException;
import org.apache.http.HttpResponse;
import org.apache.http.client.ClientProtocolException;
import org.apache.http.client.HttpClient;
import org.apache.http.client.methods.HttpPost;
import org.apache.http.entity.StringEntity;
import org.apache.http.impl.client.DefaultHttpClient;
import org.apache.http.params.HttpConnectionParams;

/**
 * @author : ClearGate Inc
 * @Created Date : Sep 21, 2013
 * @Description : To call REST XML Web Service
 * @Copyright ClearGate Inc.
 */
public class TestXMLClient {

    public static void main(String[] args){
        try {
            /**
             * Init Parameter
             */
            HttpClient client = new DefaultHttpClient();
            HttpConnectionParams.setConnectionTimeout(client.getParams(), 10000);
            HttpResponse response;
            StringEntity se;
            HttpPost postCreate;
            String createXmlURL = "";

            /**

```



```

        * Build XML Request
        */
String xmlRequestObject="<com.payhub.webpos.vt. webservice.model.TransactionReqBO>"+
"<RECORD_FORMAT>CC</RECORD_FORMAT>"+
"<MERCHANT_NUMBER>your_merchant_no</MERCHANT_NUMBER>"+
"< USER_NAME >your_username</ USER_NAME >"+
..
..
"</com.ClearGate.webpos.vt. webservice.model.TransactionBO>";

System.out.println("XML REQUEST :" + xmlRequestObject);

createXmlURL = "https://vtstaging.cleargate.com/payhubtw/transaction.xml";
postCreate = new HttpPost(createXmlURL);
se = new StringEntity(xmlRequestObject);
postCreate.setEntity(se);

/**
 * Execute XML URL for web service call
 */
response = client.execute(postCreate);

int cnt = 0;
String xmlResponse = "";
InputStream in;

if (response != null) {
    System.out.println("----- GETTING RESPONSE FROM WEB SERVICE -----");
    in = response.getEntity().getContent(); // Get the data in the entity

    while((cnt = in.read()) > -1) {
        xmlResponse += (char) cnt;
    }
    System.out.println("XML RESPONSE : " + xmlResponse);

}

}
catch(UnsupportedEncodingException e) {
    System.out.println("UnsupportedEncodingException : "+e.getMessage());
}
catch(ClientProtocolException e) {
    System.out.println("ClientProtocolException : "+e.getMessage());
}
catch(IOException e) {
    System.out.println("IOException : "+e.getMessage());
}
catch(Exception e) {
    System.out.println("Exception : "+e.getMessage());
}
}
}
}

```

Note: Above code can be used to call mentioned XML type web services

Sample Message Formats

Example K-1 — JSON Request for SALE Transaction

```
{
  "RECORD_FORMAT": "CC",
```

```

"MERCHANT_NUMBER": "your_merchant_no",
"USER_NAME": "your_username",
"PASSWORD": "your_password",
"TERMINAL_NUMBER": "your_terminal_no",
"TRANSACTION_CODE": "01",
"CARDHOLDER_ID_CODE": "@",
"CARD HOLDER ID DATA": "",
"ACCOUNT_DATA_SOURCE": "T",
"CUSTOMER_DATA_FIELD": "4111111111111111",
"CARD_EXPIRY_DATE": "122012",
"CVV_CODE": "Y",
"CVV_DATA": "999",
"TRANSACTION_AMOUNT": "333",
"OFFLINE_APPROVAL_CODE": "",
"TRANSACTION_ID": "",
"TRANSACTION_NOTE": "",
"CUSTOMER_ID": "",
"CUSTOMER_FIRST_NAME": "James",
"CUSTOMER_LAST_NAME": "Streisand",
"CUSTOMER_COMPANY_NAME": "Brad's Raunch",
"CUSTOMER_JOB_TITLE": "Quality Analysis",
"CUSTOMER_EMAIL_ID": "john@gmail.com",
"CUSTOMER_WEB": "http://www.ClearGateinc.com",
"CUSTOMER_PHONE_NUMBER": "8787878787",
"CUSTOMER_PHONE_EXT": "8787",
"CUSTOMER_PHONE_TYPE": "W",
"CUSTOMER_BILLING_ADDRESS1": "30PostSquare",
"CUSTOMER_BILLING_ADDRESS2": "Straightway",
"CUSTOMER_BILLING_ADD_CITY": "Boston",
"CUSTOMER_BILLING_ADD_STATE": "2",
"CUSTOMER_BILLING_ADD_ZIP": "85284",
"CUSTOMER_SHIPPING_ADD_NAME": "James",
"CUSTOMER_SHIPPING_ADDRESS1": "30PostSquare",
"CUSTOMER_SHIPPING_ADDRESS2": "Straightway",
"CUSTOMER_SHIPPING_ADD_CITY": "Boston",
"CUSTOMER_SHIPPING_ADD_STATE": "2",
"CUSTOMER_SHIPPING_ADD_ZIP": "85284"
}

```

Example K-2 — JSON Response for SALE Transaction

```

{
  "RESPONSE_CODE": "00",
  "RESPONSE_TEXT": "APPROVAL TAS770 ",
  "APPROVAL_CODE": "035919",
  "AVS_RESULT_CODE": "0",
  "VERIFICATION_RESULT": "M",
  "TRANSACTION_ID": "10235",
  "RISK_STATUS_RESPONSE_CODE": "",
  "RISK_STATUS_RESPONSE_TEXT": "",
  "CARD_TOKEN_NO": "",
  "TRANSACTION_DATE_TIME": "",
  "BATCH_ID": "",
  "CUSTOMER_ID": "",
  "CIS_NOTE": ""
}

```

Example K-3— JSON Request for RECHARGE SALE with token Transaction

```

{
  "RECORD_FORMAT": "CC",

```

```

"MERCHANT_NUMBER": "your_merchant_no",
"USER_NAME": "your_username",
"PASSWORD": "your_password",
"TERMINAL_NUMBER": "your_terminal_no",
"TRANSACTION_CODE": "01",
"CARDHOLDER_ID_CODE": "@",
"CARD_HOLDER_ID_DATA": "",
"ACCOUNT_DATA_SOURCE": "Z",
"CUSTOMER_DATA_FIELD": "1000000000000015",
"CARD_EXPIRY_DATE": "12162016",
"TRANSACTION_AMOUNT": "10",
"OFFLINE_APPROVAL_CODE": ""
}

```

Example K-4— JSON Response for RECHARGE SALE with Token Transaction

```

{
  "RESPONSE_CODE": "00",
  "RESPONSE_TEXT": "",
  "APPROVAL_CODE": "",
  "AVS_RESULT_CODE": "0",
  "VERIFICATION_RESULT": "",
  "TRANSACTION_ID": "10235",
  "RISK_STATUS_RESPONSE_CODE": "",
  "RISK_STATUS_RESPONSE_TEXT": "",
  "CARD_TOKEN_NO": "",
  "TRANSACTION_DATE_TIME": "",
  "BATCH_ID": "",
  "CUSTOMER_ID": "",
  "CIS_NOTE": ""
}

```

Example L-1 — JSON Request for VOID Transaction

```

{
  "MERCHANT_NUMBER": "your_merchant_no",
  "USER_NAME": "your_username",
  "PASSWORD": "your_password",
  "TERMINAL_NUMBER": "your_terminal_no",
  "TRANSACTION_CODE": "03",
  "TRANSACTION_NOTE": "",
  "TRANSACTION_ID": "1529"
}

```

Example L-2 — JSON Response for VOID Transaction

```

{
  "RESPONSE_CODE": "00",

```

```

"RESPONSE_TEXT": "APPROVAL TAS398 ",
"APPROVAL_CODE": "035919",
"AVS_RESULT_CODE": "0",
"VERIFICATION_RESULT": "M",
"TRANSACTION_ID": "10242",
"RISK_STATUS_RESPONSE_CODE": "",
"RISK_STATUS_RESPONSE_TEXT": "",
"CARD_TOKEN_NO": "",
"TRANSACTION_DATE_TIME": "",
"BATCH_ID": "",
"CUSTOMER_ID": "",
"CIS_NOTE": ""
}

```

Example M-1 — JSON Request for REFUND Transaction

```

{
  "MERCHANT_NUMBER": "your_merchant_no",
  "USER_NAME": "your_username",
  "PASSWORD": "your_password",
  "TERMINAL_NUMBER": "your_terminal_no",
  "TRANSACTION_CODE": "02",
  "TRANSACTION_NOTE": "",
  "TRANSACTION_ID": "1260"
}

```

Example M-2 — Response for REFUND Transaction

```

{
  "RESPONSE_CODE": "00",
  "RESPONSE_TEXT": "OFFLINE APPROVAL ",
  "APPROVAL_CODE": "035919",
  "AVS_RESULT_CODE": "",
  "VERIFICATION_RESULT": "",
  "TRANSACTION_ID": "10248",
  "RISK_STATUS_RESPONSE_CODE": "",
  "RISK_STATUS_RESPONSE_TEXT": "",
  "CARD_TOKEN_NO": "",
  "TRANSACTION_DATE_TIME": "",
  "BATCH_ID": "",
  "CUSTOMER_ID": "",
  "CIS_NOTE": ""
}

```

Example M-3 — JSON Request for REFUND WITH CARD Transaction

```

{
  "MERCHANT_NUMBER": "your_merchant_no",
  "USER_NAME": "your_username",
  "PASSWORD": "your_password",
  "TERMINAL_NUMBER": "your_terminal_no",
  "RECORD_FORMAT": "CC",
  "TRANSACTION_CODE": "08",
  "CUSTOMER_DATA_FIELD": "4111111111111111",
  "CARD_EXPIRY_DATE": "122012",
  "TRANSACTION_AMOUNT": "0.01",
  "ACCOUNT_DATA_SOURCE": "T",
  "TRANSACTION_NOTE": ""
}

```

Example M-4 — Response for REFUND WITH CARD Transaction

```
{
  "RESPONSE_CODE": "00",
  "RESPONSE_TEXT": "OFFLINE APPROVAL",
  "APPROVAL_CODE": "035919",
  "AVS_RESULT_CODE": "",
  "VERIFICATION_RESULT": "",
  "TRANSACTION_ID": "102",
  "RISK_STATUS_RESPONSE_CODE": "",
  "RISK_STATUS_RESPONSE_TEXT": "",
  "CARD_TOKEN_NO": "",
  "TRANSACTION_DATE_TIME": "",
  "BATCH_ID": "",
  "CUSTOMER_ID": "",
  "CIS_NOTE": ""
}
```

Example M-5 — Request for RECHARGE REFUND with Token Transaction

```
{
  "MERCHANT_NUMBER": "your_merchant_no",
  "USER_NAME": "your_username",
  "PASSWORD": "your_password",
  "TERMINAL_NUMBER": "your_terminal_no",
  "RECORD_FORMAT": "CC",
  "TRANSACTION_CODE": "08",
  "CUSTOMER_DATA_FIELD": "1000000000000015",
  "CARD_EXPIRY_DATE": "12162016",
  "TRANSACTION_AMOUNT": "0.01",
  "ACCOUNT_DATA_SOURCE": "Z",
  "TRANSACTION_NOTE": ""
}
```

Example M-6 — Response for RECHARGE REFUND with Token Transaction

```
{
  "RESPONSE_CODE": "00",
  "RESPONSE_TEXT": "OFFLINE APPROVAL",
  "APPROVAL_CODE": "",
  "TRANSACTION_ID": "1131",
  "TOKEN_NO": "1000000000000015",
  "AVS_RESULT_CODE": "",
  "VERIFICATION_RESULT": "",
  "TRANSACTION_ID": "102",
  "RISK_STATUS_RESPONSE_CODE": "",
  "RISK_STATUS_RESPONSE_TEXT": "",
  "CARD_TOKEN_NO": "",
  "TRANSACTION_DATE_TIME": "",
  "BATCH_ID": ""
}
```

```

"CUSTOMER_ID":"".
"CIS_NOTE":""
}

```

Example N-1 — Request for OFFLINE SALE Transaction

```

{
  "RECORD_FORMAT": "CC",
  "MERCHANT_NUMBER": "your_merchant_no",
  "USER_NAME": "your_username",
  "PASSWORD": "your_password",
  "TERMINAL_NUMBER": "your_terminal_no",
  "TRANSACTION_CODE": "04",
  "CARDHOLDER_ID_CODE": "@",
  "CARD HOLDER ID DATA": "",
  "ACCOUNT_DATA_SOURCE": "T",
  "CUSTOMER_DATA_FIELD": "5466410004374507",
  "CARD_EXPIRY_DATE": "122012",
  "CVV_CODE": "N",
  "CVV_DATA": "",
  "TRANSACTION_AMOUNT": "240",
  "OFFLINE_APPROVAL_CODE": "TEST12",
  "TRANSACTION_ID": "",
  "TRANSACTION_NOTE": "", "CUSTOMER_ID": "",
  "CUSTOMER_FIRST_NAME": "James",
  "CUSTOMER_LAST_NAME": "Streisand",
  "CUSTOMER_COMPANY_NAME": "Brad's Raunch",
  "CUSTOMER_JOB_TITLE": "Quality Analysis",
  "CUSTOMER_EMAIL_ID": "john@gmail.com",
  "CUSTOMER_WEB": "http://www.ClearGateinc.Com",
  "CUSTOMER_PHONE_NUMBER": "8787878787",
  "CUSTOMER_PHONE_EXT": "8787",
  "CUSTOMER_PHONE_TYPE": "W",
  "CUSTOMER_BILLING_ADDRESS1": "30PostSquare",
  "CUSTOMER_BILLING_ADDRESS2": "Straightway",
  "CUSTOMER_BILLING_ADD_CITY": "Boston",
  "CUSTOMER_BILLING_ADD_STATE": "2",
  "CUSTOMER_BILLING_ADD_ZIP": "85284",
  "CUSTOMER_SHIPPING_ADD_NAME": "James",
  "CUSTOMER_SHIPPING_ADDRESS1": "30PostSquare",
  "CUSTOMER_SHIPPING_ADDRESS2": "Straightway",
  "CUSTOMER_SHIPPING_ADD_CITY": "Boston",
  "CUSTOMER_SHIPPING_ADD_STATE": "2",
  "CUSTOMER_SHIPPING_ADD_ZIP": "85284"
}

```

Example N-2 — Response for OFFLINE SALE Transaction

```

{
  "RESPONSE_CODE": "00",
  "RESPONSE_TEXT": "OFFLINE APPROVAL",
  "APPROVAL_CODE": "TEST12",
  "AVS_RESULT_CODE": "",
  "VERIFICATION_RESULT": "",
  "TRANSACTION_ID": "10249",
  "RISK_STATUS_RESPONSE_CODE": "",
  "RISK_STATUS_RESPONSE_TEXT": "",
  "CARD_TOKEN_NO": "",
  "TRANSACTION_DATE_TIME": "",
  "BATCH_ID": ""
}

```

```

"CUSTOMER_ID": "",
"CIS_NOTE": ""
}

```

•

Example O-1 — Request for AUTH ONLY Transaction

```

{
  "RECORD_FORMAT": "CC",
  "MERCHANT_NUMBER": "your_merchant_no",
  "USER_NAME": "your_username",
  "PASSWORD": "your_password",
  "TERMINAL_NUMBER": "your_terminal_no",
  "TRANSACTION_CODE": "05",
  "CARDHOLDER_ID_CODE": "@",
  "CARD_HOLDER_ID_DATA": "",
  "ACCOUNT_DATA_SOURCE": "T",
  "CUSTOMER_DATA_FIELD": "5466410004374507",
  "CARD_EXPIRY_DATE": "122012",
  "CVV_CODE": "N",
  "CVV_DATA": "",
  "TRANSACTION_AMOUNT": "240",
  "OFFLINE_APPROVAL_CODE": "",
  "TRANSACTION_ID": "",
  "TRANSACTION_NOTE": "",
  "CUSTOMER_ID": "",
  "CUSTOMER_FIRST_NAME": "James",
  "CUSTOMER_LAST_NAME": "Streisand",
  "CUSTOMER_COMPANY_NAME": "Brad's Raunch",
  "CUSTOMER_JOB_TITLE": "Quality Analysis",
  "CUSTOMER_EMAIL_ID": "john@gmail.com",
  "CUSTOMER_WEB": "http://www.ClearGateinc.Com",
  "CUSTOMER_PHONE_NUMBER": "8787878787",
  "CUSTOMER_PHONE_EXT": "8787",
  "CUSTOMER_PHONE_TYPE": "W",
  "CUSTOMER_BILLING_ADDRESS1": "30PostSquare",
  "CUSTOMER_BILLING_ADDRESS2": "Straightway",
  "CUSTOMER_BILLING_ADD_CITY": "Boston",
  "CUSTOMER_BILLING_ADD_STATE": "2",
  "CUSTOMER_BILLING_ADD_ZIP": "85284",
  "CUSTOMER_SHIPPING_ADD_NAME": "James",
  "CUSTOMER_SHIPPING_ADDRESS1": "30PostSquare",
  "CUSTOMER_SHIPPING_ADDRESS2": "Straightway",
  "CUSTOMER_SHIPPING_ADD_CITY": "Boston",
  "CUSTOMER_SHIPPING_ADD_STATE": "2",
  "CUSTOMER_SHIPPING_ADD_ZIP": "85284"
}

```

Example O-2 — Response for AUTH ONLY Transaction

```

{
  "RESPONSE_CODE": "00",
  "RESPONSE_TEXT": "APPROVAL TAS398",
  "APPROVAL_CODE": "035919",
  "AVS_RESULT_CODE": "",
  "VERIFICATION_RESULT": "",
  "TRANSACTION_ID": "10249",
  "RISK_STATUS_RESPONSE_CODE": "",
  "RISK_STATUS_RESPONSE_TEXT": "",
  "CARD_TOKEN_NO": ""
}

```

```

"TRANSACTION_DATE_TIME": ""
"BATCH_ID": "",
"CUSTOMER_ID": "",
"CIS_NOTE": ""
}

```

Example P-1 — Request for ACH Debit Transaction

```

{
  "MERCHANT_NUMBER": "your_merchant_number",
  "USER_NAME": "your_username",
  "PASSWORD": "your_password",
  "TERMINAL_NUMBER": "your_terminal_number",
  "RECORD_FORMAT": "CT",
  "TRANSACTION_CODE": "09",
  "CHECK_FIRST_NAME": "Test",
  "CHECK_LAST_NAME": "Test",
  "CHECK_ACCOUNT_TYPE": "Checking",
  "CHECK_ACCOUNT_NUMBER": "your_account_number",
  "CHECK_ROUTING_NUMBER": "your_routing_number",
  "TRANSACTION_AMOUNT": "1"
  "CHK_FLAG": "1"
}

```

Example P-2 — Response for ACH Debit Transaction

```

{
  "RESPONSE_CODE": "00",
  "RESPONSE_TEXT": "SUCCESS",
  "APPROVAL_CODE": "Ref.Number T:1NYWT62DLA3",
  "AVS_RESULT_CODE": "",
  "VERIFICATION_RESULT_CODE": "",
  "TRANSACTION_ID": "1113",
  "RISK_STATUS_RESPONSE_CODE": "",
  "RISK_STATUS_RESPONSE_TEXT": "",
  "CARD_TOKEN_NO": "",
  "TRANSACTION_DATE_TIME": "",
  "BATCH_ID": "3",
  "CUSTOMER_ID": "",
  "CIS_NOTE": ""
}

```

Example Q-1 — Request for ACH Credit Transaction

```

{
  "MERCHANT_NUMBER": "your_merchant_number",
  "USER_NAME": "your_username",
  "PASSWORD": "your_password",
  "TERMINAL_NUMBER": "your_terminal_number",
  "RECORD_FORMAT": "CT",
  "TRANSACTION_CODE": "10",
}

```



```

"CHECK_FIRST_NAME":"Test",
"CHECK_LAST_NAME":"Test",
"CHECK_ACCOUNT_TYPE":"Checking",
"CHECK_ACCOUNT_NUMBER":"your_account_number",
"CHECK_ROUTING_NUMBER":"your_routing_number",
"TRANSACTION_AMOUNT":"1"
  "CHK_FLAG":"1"
}

```

Example Q-2 — Response for ACH Credit Transaction

```

{
  "RESPONSE_CODE":"00",
  "RESPONSE_TEXT":"SUCCESS",
  "APPROVAL_CODE":"Ref.Number T:5FMRT62DLA2",
  "AVS_RESULT_CODE":"",
  "VERIFICATION_RESULT_CODE":"",
  "TRANSACTION_ID":"1115",
  "RISK_STATUS_RESPONSE_CODE":"",
  "RISK_STATUS_RESPONSE_TEXT":"",
  "CARD_TOKEN_NO":"",
  "TRANSACTION_DATE_TIME":"",
  "BATCH_ID":"3",
  "CUSTOMER_ID":"",
  "CIS_NOTE":""
}

```

Example R-1 — Request for Recharge ACH Debit Transaction

```

{
  "MERCHANT_NUMBER":"your_merchant_number",
  "USER_NAME":"your_username",
  "PASSWORD":"your_password",
  "TERMINAL_NUMBER":"your_terminal_number",
  "RECORD_FORMAT":"CT",
  "TRANSACTION_CODE":"11",
  "TRANSACTION_ID":"1113",
  "TRANSACTION_AMOUNT":"1"
}

```

Example R-2 — Response for Recharge ACH Debit Transaction

```

{
  "RESPONSE_CODE":"00",
  "RESPONSE_TEXT":"SUCCESS",
  "APPROVAL_CODE":"Ref.Number T:9DZRQ04DLA2",
  "AVS_RESULT_CODE":"",
  "VERIFICATION_RESULT_CODE":"",
  "TRANSACTION_ID":"2515",
  "RISK_STATUS_RESPONSE_CODE":"",
  "RISK_STATUS_RESPONSE_TEXT":"",

```

```

"CARD_TOKEN_NO":"","
"TRANSACTION_DATE_TIME":" ",
"BATCH_ID":"537",
"CUSTOMER_ID":"","
"CIS_NOTE":""
}

```

Example S-1 — Request for Recharge ACH Credit Transaction

```

{
"MERCHANT_NUMBER":"your_merchant_number",
"USER_NAME":"your_username",
"PASSWORD":"your_password",
"TERMINAL_NUMBER":"your_terminal_number",
"RECORD_FORMAT":"CT",
"TRANSACTION_CODE":"12",
"TRANSACTION_ID":"1115",
"TRANSACTION_AMOUNT":"1"
}

```

Example S-2 — Response for Recharge ACH Credit Transaction

```

{
"RESPONSE_CODE":"00",
"RESPONSE_TEXT":"SUCCESS",
"APPROVAL_CODE":"Ref.Number T:VDZRQ04DLA2",
"AVS_RESULT_CODE":"","
"VERIFICATION_RESULT_CODE":"","
"TRANSACTION_ID":"2516",
"RISK_STATUS_RESPONSE_CODE":"","
"RISK_STATUS_RESPONSE_TEXT":"","
"CARD_TOKEN_NO":"","
"TRANSACTION_DATE_TIME":" ",
"BATCH_ID":"537",
"CUSTOMER_ID":"","
"CIS_NOTE":""
}

```

Example T-1 — Request for ACH Refund Transaction

```

{
"MERCHANT_NUMBER":"your_merchant_number",
"USER_NAME":"your_username",
"PASSWORD":"your_password",
"TERMINAL_NUMBER":"your_terminal_number",
"TRANSACTION_CODE":"13",
"TRANSACTION_ID":"2228",
"TRANSACTION_NOTE":" "
}

```

Example T-2 — Response for ACH Refund Transaction

```
{
  "RESPONSE_CODE":"00",
  "RESPONSE_TEXT":"SUCCESS",
  "APPROVAL_CODE":"T:8Z4V2M2DLA3",
  "AVS_RESULT_CODE":"",
  "VERIFICATION_RESULT_CODE":"",
  "TRANSACTION_ID":"2518",
  "RISK_STATUS_RESPONSE_CODE":"",
  "RISK_STATUS_RESPONSE_TEXT":"",
  "CARD_TOKEN_NO":"",
  "TRANSACTION_DATE_TIME":" ",
  "BATCH_ID":"536",
  "CUSTOMER_ID":"62",
  "CIS_NOTE":""
}
```

Example U-1 — Request for ACH Void Transaction

```
{
  "MERCHANT_NUMBER":"your_merchant_number",
  "USER_NAME":"your_username",
  "PASSWORD":"your_password",
  "TERMINAL_NUMBER":"your_terminal_number",
  "TRANSACTION_CODE":"14",
  "TRANSACTION_ID":"2515",
  "TRANSACTION_NOTE":""
}
```

Example U-2 — Response for ACH Void Transaction

```
{
  "RESPONSE_CODE":"00",
  "RESPONSE_TEXT":"SUCCESS",
  "APPROVAL_CODE":"T:9DZRQ04DLA2",
  "AVS_RESULT_CODE":"",
  "VERIFICATION_RESULT_CODE":"",
  "TRANSACTION_ID":"2519",
  "RISK_STATUS_RESPONSE_CODE":"",
  "RISK_STATUS_RESPONSE_TEXT":"",
  "CARD_TOKEN_NO":"",
  "TRANSACTION_DATE_TIME":" ",
  "BATCH_ID":"537",
  "CUSTOMER_ID":"83",
  "CIS_NOTE":""
}
```

Example V-1 — Request for Signature Transaction

```
{
  "TRANSACTION_ID": "6142"
  "SIGNATURE_TRANSACTION": "Your Transaction Signature HexaDecimal Foramt"
}
```

Example V-2 — Response for Signature Transaction

```
{
  "RESPONSE_CODE": "4211",
  "RESPONSE_TEXT": "SIGNATURE UPDATED ",
  "TRANSACTION_ID": "6142",
}
```

Example W-2 — Request for Receipt

```
{
  "MERCHANT_NUMBER": "your_merchant_no",
  "USER_NAME": "your_username "
  "PASSWORD": "your_password",
  "TERMINAL_NUMBER": "your_terminal_no",
  "TRANSACTION_CODE": "16",
  "TRANSACTION_ID": "3534"
}
```

Example W-2 — Response for Receipt

```
{
  "RESPONSE_CODE": "5010",
  "RESPONSE_TEXT": "<html><head><p><div style='position: relative; top: 22px; left: 79.5px;
margin-top:-206px;margin-left:-80px;position:fixed; _position:absolute; /*width:400px;*//*height:296px;*/ background:#E3F0F0;
z-index:2; padding:0px; font-size:13px;'><div style='margin-top: 180px;width: 326px;width:500px; border-top:21px solid
#FFFFFF; border text-align:center; -moz-box-shadow: 0 0 5px #999; -webkit-box-shadow: 0 0 5px #999; box-shadow: 0 0 5px
#999;'><div style='margin-top:-201px; width:237px;width:410px; margin:0px; padding:25px 50px 10px 42px; border-top: 0px
solid #fff; text-align:center; font: 14px Arial, Verdana, Helvetica, sans-serif;line-height:18px; background:#fff url()
repeat-x;'><b>TSYS DEMO Test</b><br/>639 Isbell Rd ste 330<br/>renoNevada89509<br/>(775)
336-6886<br/><br/><br/>Cashier :testuser<br/>Terminal 1 | Virtual Terminal<br/>Receipt :3534<br/>01/21/2015 07:32:54
PM<br/><br/><br/><div style='margin-left: -20px; margin-top: -27px;width:243px; padding:0px 0px 22px 0px; margin:0px; font:
13px Arial, Verdana, Helvetica, sans-serif;line-height:18px;'><table width=162%><tr><td align='left'>Sub Total : <td
align='right'><b>1.01</b></td></tr><tr><td align='left'>Shipping Amount : <td
align='right'><b>0.00</b></td></tr><tr><td align='left'>Tax : <td align='right'><b>0.00</b></td></tr><tr><td
align='left'>Total : <td align='right'><b>1.01</b></td></tr></table></div><div style='margin-left: -20px; margin-top:
-27px; width:243px; padding:0px 0px 22px 0px; margin:0px; font: 13px Arial, Verdana, Helvetica, sans-serif;line-height:18px;'>
<table width=118%><tr><td align='left'><b>_____</b></td><td align='left'>VISA
Ending in 8980</td></tr><br/><tr><td align='left'>Base : <td align='right'>1.01</td></tr><tr><td align='left'>Total
Tendered : <td align='right'>1.01</td></tr></table></div><tr><td align='left'>Transaction Type : <td
align='right'>Sale</td></tr><tr><td align='left'>Action : <td align='right'>Manual</td></tr><tr><td
align='left'>Transaction # : <td align='right'>3534</td></tr><tr><td align='left'>Batch # : <td
align='right'>621</td></tr><tr><td align='left'>Approval Code : <td align='right'>TAS582</td></tr><tr><td
align='left'>Date : Jan 21, 2015 7:32:54 PM</td></tr><tr><td align='left'>Result : <td
align='right'>Successful</td></tr></table></div><table width=118%><tr><td align='left'><b>Signature :</b></td></tr></table>
id='signimg'
```

```

src="
AAAQAAAAAAAA\r\nAAEBAQACAgIAAwMDAAQEBAAFBQUABgYGAACHBwAICAgACQkJAAoKCGALCwsADAwMAA0NDQAOD
g4A\r\nDw8PABAQEAAEREREAEHISABMTEwAUFBQAFRUUVABYWFgAXFxcAGBgYABkZGQAAaGhoAGxsbABwcHAAd\r\nHR0
AHh4eAB8fHwAgICAISEhACiilgAjlyMAJJCQKACUIJQAmJiYAJycnACGokAApKSKAKioqACsr\r\nKwAsLCwALS0tAC4uLgAvLy
8AMDawADExMQAyMjIAMzADQ0NAA1NTUANjY2ADc3NwA4ODgAOTk5\r\nADo6OgA7OzsAPDw8AD09PQA+Pj4APz8/A
EBAQABBQUEAQKJCAENDQwBEREQARUVFAEZGRgBHR0cAl\r\nSEHIAEIJQBKSkoAS0tLAExMTABNTU0ATk5OAE9PTw
BQUFAAUVFRAFJSUgBTU1MAVFRUAFVvVQBWR\r\nViyAV1dXAFhYWABZwVKAwIpaAFtbWwBcXFwAXV1dAF5eXgBfX18A
YGBgAGFhYQBiYmIAY2NjAGRk\r\nZABIZWUAZmZmAGdnZwBoaGgAaWlPAGppqgBra2sAbGxsAG1tbQBubm4Ab29vAHBwc
ABxcXEAcnJy\r\nAHNzcbW0dHQAdXV1AHZ2dgB3d3cAeHh4AHI5eQB6enoAe3t7AHx8fAB9fX0Afn5+AH9/fwCAGIAA\r\nngYGB
AIKCGgCDg4MAhISEAIWFhQCghoYAh4eHALiliACJiYkAioqKAluLiwCMjIwAjY2NAI6OjgCP\r\n\r\nnj48AKJCQAJGRKQCSkplAk5OT
AJSUIACVIZUAlpaWAJeXlwCYmJgAmZmZAJqamgCbm5sAnJycAJ2d\r\n\r\nnnQCenp4An5+fAKCGoAChoaEAOqKiAKOjowCkpkQ
ApaWIAKampgCnp6cAqKioAKmpqQCqqoAq6ur\r\n\r\nAKysrACtra0Arq6uAK+vrwCwSLAAsbGxALKysgCzs7MATLS0ALW1tQC2tr
YAt7e3ALi4uAC5ubkA\r\n\r\nnurg6ALu7uwC8vLwAvb29AL6+vgC/v78AwMDAAMHBwQDCwslAw8PDAMTEADFXcUAxsbGAMfHx
wDI\r\n\r\nnyMgAycnJAMrKygdLY8sAzMzMAM3NzQDOzs4Az8/PANDQ0ADR0dEA0tLSANPT0wDU1NQA1dXVANbW\r\n\r\nr1ngDX19c
A2NjYANzZ2QDa2toA29vbANzc3ADd3d0A3t7eAN/f3wDg4OAA4eHhAOLi4gDj4+MA50TK\r\n\r\nAOXI5QDm5uYA5+fnAOjo6ADp
6ekA6urqAOvr6wDs7OwA7e3tAO7u7gDv7+8A8PDwAPHx8QDy8vIAl\r\n\r\nr8/PzAPT09AD19fUA9vb2APf39wD4+PgA+fn5APr6+g
D7+/s/APz8AP39/QD+/v4A///APr/AAD6\r\n\r\n\r\nAA+v8AAPr/AAD6/wAA+v8AAPr/AAD6/wAA+v8AAPr/AAD6/wAAf8H0hD/BtKU/
wAARf8B0gHA\r\n\r\nAdIBnQc9AdIO/wHSBj0BnQHSACAB/JD/AABC/wLSAcAEPQGdAdIFPQHSDv8B0gE9BNIBnQM9AWsB\r\n\r\nr1nw
AH8jv8AAED/AdIBnQM9AWsBwAPSAj0D0gI9AZ0B0gz/AdIDPQGdAdIB/wLSAcACPQFrAcAB0gHA\r\n\r\n\r\nAfyK/wAAPv8B0gGdAj0
BnQHSACAB/AL/AdICPQLSAZ0FPQGdAtIBwAH8CP8C0gGdAj0B0gP/AdIB\r\n\r\n\r\nwAQ9AWsBwAH8iP8AAD3/AdICPQGdAdIG/w
HSBT0BnQE9AZ0B0gGdB0BawHAAAdJ/wHSAj0B0gT/\r\n\r\nAdIBwAHSACACPQFrAcAB0ob/AAA5/wLSAf8B0gI9AdIG/wfSAZ0B
PQGdAtIB/wPSAcADPQGdCf8C\r\n\r\n\r\n0gn/AdIBwAM9AY8BwAH8g/8AADf/AdIBnQI9AZ0CPQHSAv8F0gw9AZ0F0gHAAZ0BPQG
dF8B0gHA\r\n\r\n\r\nAY8CPQFrAcAB/IH/AAA2/wGdAj0CnQE9AZ0D0gGdB0D0G0gGdAT0BnQE9AZ0B0gGdB0BnQHSAf8B\r\n\r\n\r\nnnQE
9AZ0C0hX/AdIBwAI9AWsBwAHSf/8AADX/AZ0BPQGdAdIB/wHSBj0BnQPSBf8BnQE9AZ0BPQGd\r\n\r\n\r\nr1nA8E0gGdAj0B0gH/AZ0
DPQHSB/8D0gz/AdIBwAM9AY8BwAH8fP8AADT/AZ0BPQGdB0G0gj/AZ0B\r\n\r\n\r\nr1nPQGdAT0BnQn/AtID/wLSAj0B0gH/BNIBnQM
9AZ0D0gHAAfwi/wHSAcABjwI9AWsBwAH8Sev8AADP/\r\n\r\nAdICPQHSEf8BnQE9AZ0B0gE9AdIQ/wLSAf8B0gU9AZ0B0gGdB0
BawHABtIE/wHSACADPQGPAcgB\r\n\r\n\r\nr1n0gHAAfx1/wAAM/8B0gE9AdIR/wGdAT0BnQH/AZ0BPQGdFP8F0gP/BNIBwAg9AdIF/wH
SACABjwQ9\r\n\r\n\r\nr1nAWsBwAH8c/8AADP/AdIBPQHSE8B/AFrAT0B0gGdAT0BnSD/A9IBnQY9AZ0B0gf/AdIBywHSACAC\r\n\r\n\r\nr1nPQFrA
cAC0nD/AAAz/wHSA\r\n\r\n\r\nT0B0hD/AZ0BPQGdAf8B0gE9AdIB/wTSAZ0EPQGdBNI\r\n\r\n\r\nBnQI9AZ0C0gj/\r\n\r\n\r\nr1nAdIBwAQ9AZ0B0m7/AAAz/w
HSAj0B0g7/AZ0BPQGdAv8BnQE9AZ0B0hn/AdIFPQGdA9IG/wHSAZ0D\r\n\r\n\r\nr1nPQGdCf8B0gHAAAdIBnQI9AZ1t/wAANP8BnQE9AZ
0M/wHSAZ0BPQGdAv8BnQE9AZ0CPQHSGf8F0gz/\r\n\r\n\r\nr1nAtIBnQE9AZ0M/wHSAZ0BPQGdbP8AADX/AZ0BPQGdAdJ/wHAAj0B
nQP/AZ0DPQHSLv8B0g//AdJt\r\n\r\n\r\nr1n/wAANv8BnQI9AZ0C0gT/AdIBnQE9AWsBwAP/AZ0CPQGdAdKt/wAAN/8B0gGdAz0BnQLSA
Z0CPQGd\r\n\r\n\r\nr1nAfwd/wGdAj0B0q//AAA5/wLSAZ0EPQGdAdIG/wLSsP8AADz/BNK6/wAA+v8AAPr/AAD6/wAA+v8A\r\n\r\n\r\nr1nAPr/AAD6/
wAA+v8AAPr/AAD6/wAA+v8AAPr/AAD6/wAA+v8AAPr/AAD6/wAA+v8AAPr/AAAAAa4E\r\n\r\n\r\nr1nAADkCAAA\r\n\r\n\r\nr1n"/></Vtd></Vtr><tr><td
align='right'><b></b></Vtd></Vtr><tr><td align='right'><b></b></Vtd></Vtr></tr></table></div></div></div>
<div style='display:none; position:fixed; _position:absolute; height:100%; width:100%; top:0; left:0; background:#000000; border:1px solid #000; z-index:9999;'></div></thead></html>";
}

```

Example X-1 — Request for Gift card Balance Inquiry Transaction

```
{  
  "GIFT_CARD_NUMBER": "0000007139744"  
  "GIFT_TRANSACTION_TYPE": "5"  
}
```

Example X-2 — Response for Gift Card Balance Inquiry

```
{  
  "RESPONSE_CODE": "4214",  
  "RESPONSE_TEXT": "GIFT CARD BALANCE RETRIEVED SUCCESSFULLY",  
}
```

Example Y-1 — Request for Gift card Redemption

```
{  
  "GIFT_CARD_NUMBER": "0000007139744"  
  "GIFT_TRANSACTION_TYPE": "6"  
  "GIFT_REDEMPTION_AMOUNT": "10"  
}
```

Example Y-2 — Response for Gift Card Redemption

```
{  
  "RESPONSE_CODE": "4215",  
  "RESPONSE_TEXT": "REDEMPTION AMOUNT CAPTURED SUCCESSFULLY",  
  "GIFT_BALANCE_AMOUNT": "1500",  
  "GIFT_CAPTURED_AMOUNT": "100"  
}
```

Example Z-1 — Request for Gift Card Partial Redemption

```
{  
  "GIFT_CARD_NUMBER": "0000007139744"  
  "GIFT_TRANSACTION_TYPE": "7"  
  "GIFT_REDEMPTION_AMOUNT": "10"  
}
```

Example Z-2— Response for Gift card Partial Redemption

```
{
  "RESPONSE_CODE": "4216",
  "RESPONSE_TEXT": "Partial REDEMPTION AMOUNT CAPTURED SUCCESSFULLY",
  "GIFT_BALANCE_AMOUNT": "1500",
  "GIFT_CAPTURED_AMOUNT": "100"
}
```

Example AA-1— Request for Gift Card Add Value

```
{
  "GIFT_CARD_NUMBER": "0000007139744"
  "GIFT_TRANSACTION_TYPE": "8"
  "GIFT_REDEMPTION_AMOUNT": "10"
}
```

Example AA-2— Response for Gift Card Add Value

```
{
  "RESPONSE_CODE": "4217",
  "RESPONSE_TEXT": "AMOUNT ADDED TO THE CARD SUCCESSFULLY",
  "GIFT_BALANCE_AMOUNT": "2000",
  "GIFT_CARD_ADDED_AMOUNT": "1500"
}
```


Example BB-1— Request for Gift card Balance Transfer

```
{  
  "GIFT_CARD_NUMBER": "0000007139744"  
  "GIFT_TRANSACTION_TYPE": "9"  
  "TO_GIFT_REDEMPTION_AMOUNT": "10"  
}
```

Example BB-2— Response for Gift Card Balance Transfer

```
{  
  "RESPONSE_CODE": "4218",  
  "RESPONSE_TEXT": "GIFT CARD BALANCE TRANSFERRED SUCCESSFULLY",  
}
```

Example CC-1— Request for Gift Card Status Change

```
{  
  "GIFT_CARD_NUMBER": "0000007139744"  
  "GIFT_TRANSACTION_TYPE": "10",  
  "GIFT_CARD_STATUS": "1"  
}
```

Example BB-1— Response for Gift card Balance Transfer

```
{  
  "RESPONSE_CODE": "4219",  
  "RESPONSE_TEXT": "GIFT CARD STATUS CHANGED SUCCESSFULLY",  
}
```

Example BB-2— Request for Gift Card Void

```
{  
  "TRANSACTION_ID": "6258",  
  "GIFT_TRANSACTION_TYPE": "03",  
  "TRANSACTION_NOTE": "VOID"  
}
```

Example CC-1— Response for Gift Card Void

```
{  
  "RESPONSE_CODE": "4232",  
  "RESPONSE_TEXT": "GIFT CARD VOID TRANSACTION PROCESSED SUCCESSFULLY",  
}
```

Example DD-1 — Request for Gift card Activation

```
{  
  "GIFT_CARD_NUMBER": "0000007139744"  
  "GIFT_TRANSACTION_TYPE": "11"  
  "GIFT_REDEMPTION_AMOUNT": "100"  
}
```

Example DD-2 — Response for Gift Card Activation

```
{  
  "RESPONSE_CODE": "4215",  
  "RESPONSE_TEXT": "Gift Card Activated SUCCESSFULLY",  
  "GIFT_CAPTURED_AMOUNT": "100"  
}
```

APPENDIX

Transaction Code

Table 1.1

Code	Transaction Type	Card Type Supported
00	BATCH	
01	SALE and RECHARGE SALE	Credit and Debit for SALE, Token for RECHARGE SALE
02	REFUND	Credit, Debit
03	VOID	Credit, Debit
04	OFFLINE SALE	Credit
05	AUTH ONLY	Credit
08	REFUND WITH CARD and RECHARGE REFUND	Credit for REFUND WITH CARD, Token for RECHARGE REFUND
09	ACH DEBIT	Debit
10	ACH CREDIT	Credit
11	RECHARGE ACH DEBIT	Debit
12	RECHARGE ACH CREDIT	Credit
13	ACH REFUND	Credit, Debit
14	ACH VOID	Credit, Debit
15	SIGNATURE	Credit, Debit
16	RECEIPT	All Transactions
17	GIFT CARD	Gift Card
18	GIFT CARD VOID	Gift Card

Card Holder ID Code

Table 1.2

Code	Identification Method
K	Personal Identification Number 32-character DUK/PT.
@	Cardholder Signature - No PIN pad available.

Card Holder ID Data

Table 1.3

Length	Description	Value(s) from Table 1.2
0	No need to provide data.	@
32-42	A PIN was entered on a DUK/PT key PIN pad.	K

Account Data Source

Table 1.4

ID Code	Identification Method
D	Full magnetic stripe read and transmit, Track two

H	Full magnetic stripe read and transmit, Track one
T	Card Number
Z	Card Token Number

Note: In case of void/reversal/refund, this value must be the same as that was for the original sale transaction.

Customer Data Field

Table 1.5

For example below is magnetic strip data after reading it from magnetic strip card reader:

```
%BXXXXXXXXXXXX4507^TEST CARD
^04041010000000000000000054800000?;XXXXXXXXXXXX4507=04041010000005480000?
```

1. Track 1 Data:

This is a variable length field with a maximum data length of 76 characters.

Track 1 data from above track data is:

```
%BXXXXXXXXXXXX4507^TEST CARD      ^04041010000000000000000054800000?
```

Field	Description	Length	Format
SS	Start Sentinel	1	%
FC	Format Code	1	AN
PAN	Primary Account Number	Max 19	N
FS	Field Separator	1	^
Name	Card Holder Name	2-26 Max	AN
FS	Field Separator	1	^
Date	Expiration Date (YYMM)	4	N
SVC CD	Service Code	3	N
Discretionary Data	Optional Issuer Data	variable	N
ES	End Sentinel	1	?
Signature	Signature Capture	0-150 Max	HexaDecimal

After removing the start sentinel and end sentinel the data will be as below which needs to

send:

```
BXXXXXXXXXXXX4507^TEST CARD      ^0404101000000000000000054800000
```

2. Track 2 Data

This is a variable length field with a maximum of 37 characters.

Track 2 data from above track data is:

```
;XXXXXXXXXXXX4507=04041010000005480000?
```

Field	Description	Length	Format
SS	Start Sentinel	1	;
PAN	Primary Account Number	Max 19	N
FS	Field Separator	1	=
Date	Expiration Date (YYMM)	4	N
SVC CD	Service Code	3	N
Discretionary Data	Optional Issuer Data	variable	N
ES	End Sentinel	1	?
Signature	Signature Capture	0-150	HexaDecimal

After removing the start sentinel and end sentinel the data will be as below which needs to send:

```
XXXXXXXXXXXX4507=04041010000005480000
```

3. Manually Entered Account Data

This is a variable length field consisting of five to 28 alphanumeric characters and contains manually entered information to be validated. For credit card transactions, this field contains the cardholder account number. Customer credit card data may be key entered when the card magnetic stripe cannot be read, if the card is not physically present, or when a card reader is not available.

Field	Description	Length	Format
PAN	Primary Account Number	Max28	N

For example manually enter card data is having below format:

XXXXXXXXXXXX4507

4. Card Token Number:

This is secured unique Card token number assigned for the cardholder card PAN number. This can be submitted for transaction instead of card information is provided.

Response Codes

Table 1.6

Code	Response Text	Description
00	Approval	Successful - Approved and completed
00	Hold	Process and Hold - High Ticket limit
00	Hold	Process and Hold - Refund Ticket limit
00	Hold	Process and Hold - Monthly volume limit
01	Call	Failed - Refer to issuer
02	Call	Failed - Refer to issuer; special condition
03	Term ID Error No Merchant	Failed - Invalid Merchant ID
04	Hold-call or Pick Up Card	Failed - Pick up card (no fraud)
05	Decline	Failed - Do not honor
06	Error XXXX	Failed - General error
06*	(Check Service Custom Text)	Failed - Error response text from check service
07	Hold-call or Pick Up Card	Failed - Pick up card, special condition (fraud account)
08	Approval	Successful - Honor MasterCard with ID
10	Partial Approval	Successful - Partial approval for the authorized amount returned in Group III version 022
11	Approval	Successful - VIP approval
12	Invalid Trans	Failed - Invalid transaction
13	Amount Error	Failed - Invalid amount
14	Card No. Error	Failed - Invalid card number
15	No such Issuer	Failed - No such issuer
19	RE Enter	Failed - Re-enter transaction
21	No Action Taken	Failed - Unable to back out transaction
28	No Reply	Failed - File is temporarily unavailable
34	Transaction Cancelled	Failed - MasterCard use only; transaction cancelled; fraud concern (Used in

		reversal requests only).
39	No Credit Acct	Failed - No credit account
41	Hold-call or Pick Up Card	Failed - Lost card, pick up (fraud account)
43	Hold-call or Pick Up Card	Failed - Stolen card, pick up (fraud account)
51	Decline	Failed - Insufficient funds
52	No Check Account	Failed - No checking account
53	No Save Account	Failed - No savings account
54	Expired Card	Failed - Expired card
55	Wrong PIN	Failed - Incorrect PIN
57	Serv not allowed	Failed - Transaction not permitted-Card
58	Serv not allowed	Failed - Transaction not permitted-Terminal
59	Serv not allowed	Failed - Transaction not permitted-Merchant
61	Declined	Failed - Exceeds withdrawal limit
62	Declined	Failed - Invalid service code, restricted
63	Sec Violation	Failed - Security violation
65	Declined	Failed - Activity limit exceeded
75	PIN Exceeded	Failed - PIN tried exceeded
76	Unsolicited Reversal	Failed - Unable to locate, no match
77	No Action Taken	Failed - Inconsistent data, reversed, or repeat
78	No Account	Failed - No account
79	Already Reversed	Failed - Already reversed at switch
80	Date Error	Failed - Invalid date
81	Encryption Error	Failed - Cryptographic error
82	Incorrect CVV	Failed - CVV data is not correct
83	Cannot Verify PIN	Failed - Cannot verify PIN
85	Card OK	Successful - No reason to decline
86	Cannot Verify PIN	Failed - Cannot verify PIN
91	No Reply	Failed - Issuer or switch is unavailable
92	Invalid Routing	Failed - Destination not found
93	Decline	Failed - Violation, cannot complete
94	Duplicate Trans	Failed - Unable to locate, no match
96	System Error	Failed - System malfunction
A1	Activated	POS device authentication successful
A2	Not Activated	POS device authentication not successful
A3	Deactivated	POS device deactivation successful
B1	SRCHG Not Allowed	Surcharge amount not permitted on Visa cards or EBT food stamps

B2	SRCHG Not Allowed	Surcharge amount not supported
CV	Failure CV	network issuer
E1	ENCR NOT CONFIGD	Card Type Verification Error
E2	TERM NOT AUTHENT	Encryption is not configured
E3	DECRYPT FAILURE	Terminal is not authenticated
EA	Acct Length Err	Data could not be decrypted
EB	Check Digit Err	Verification error
EC	CID Format Error	Verification error
HV	Failure HV	Verification error
KO	TOKEN RESPONSE	Hierarchy Verification Error
N3	Cashback Not Avl	Failed - Cash back service not available
N4	Decline	Exceeds issuer withdrawal limit
N7	CCV2 Mismatch	CVV2 Value supplied is invalid
R0	Stop recurring	Customer requested stop of specific
R1	Stop recurring	recurring payment
T0	Approval	Customer requested stop of all recurring
T1	Cannot Convert	payments from specific merchant
T2	Invalid ABA	First check is OK and has been converted
T3	Amount Error	Check is OK but cannot be converted
T4	Unpaid Items	This is a declined transaction
T5	Duplicate Number	Invalid ABA number, not an ACH
T6	MICR Error	participant
T7	Too Many Checks	Amount greater than the limit
V1	Failure VM	Unpaid items, failed negative file check
GB	Good Batch	Batch is Successfully Captured
RB	Rejected Batch	Batch Capturing Failed
QD	Duplicate Batch	Batch Capturing Failed due to Duplicate Batch ID submitted
0003	INVALID MERCHANT	Failed
0011	INVALID TRANSACTION	Failed
0012	INVALID AMOUNT	Failed
0013	INVALID ACCOUNT NUMBER	Failed
0021	EXPIRED CARD	Failed
0037	ACTIVITY AMOUNT LIMIT EXCEEDED	Failed
0039	ORIGINAL AMOUNT INCORRECT	Failed
0044	INVALID DATE	Failed
0045	ENCRYPTION ERROR	Failed
0049	NETWORK UNAVAILABLE	Failed
0056	INVALID BATCH	Failed
0058	AVS REQUIRED	Failed
0059	CVV2 REQUIRED	Failed
0060	ACCOUNT LENGTH ERROR	Failed

0061	CHECK DIGIT ERROR	Failed
0064	CVV2 MISMATCH	Failed
0902	INVALID TERMINAL	Failed
0905	INVALID RESPONSE CODE	Failed
0906	INVALID RESPONSE	Failed
0907	OFFLINE DECLINE	Failed
0918	INVALID EXPIRY DATE	Failed
0924	PROCESSOR MID TID DO NOT EXIST	Failed
0925	INVALID ZIP CODE	Failed
0926	MERCHANT CARD PROCESSOR NOT FOUND	Failed
0927	MERCHANT CARD PERMISSION NOT FOUND	Failed
0928	GW MERCHANT ID AND PROCESSOR TID NOT FOUND	Failed
0929	UNABLE TO CONNECT TSYS	Failed
0930	REQUEST TIME OUT	Failed
1000	INVALID MTI	Failed
1001	MTI IS NULL	Failed
1002	INVALID MTI LENGTH	Failed
1003	INVALID MTI VERSION	Failed
1004	INVALID TRANS TYPE	Failed
1005	INVALID MTI REQUEST	Failed
1006	INVALID MTI REQUEST TYPE	Failed
1007	FAILED TO CRETAE TRANSACTION ID	Failed
1008	INVALID TIME	Failed
1009	INVALID REFERENCE NUMBER	Failed
1010	INVALID REVERSAL APPROVAL CODE	Failed
1011	INVALID REVERSAL TRANSACTION ID	Failed
1012	INVALID REVERSAL DATE TIME	Failed
1013	INVALID TRANSACTION CARD TYPE	Failed
1014	INVALID TRANSACTION TYPE	Failed
1015	INVALID SYSTEM TRACE AUDIT NUMBER	Failed
1016	INVALID NETWORK IDENTIFICATION CODE	Failed
1017	INVALID TRANSACTION SEQUENCE NUMBER	Failed
1018	INVALID DATE TIME	Failed
1019	INACTIVE MERCHANT	Failed
1020	INACTIVE TERMINAL	Failed
1021	INVALID REQUEST ACI	Failed
1022	INVALID MOTO E COMMERCE FOR REQUEST ACI	Failed
1023	INVALID CVV CODE	Failed
1024	INVALID TERMINAL FOR MERCHANT	Failed
1025	INVALID SECONDARY AMOUNT	Failed

1026	INVALID COMMERCIAL CARD REQUEST CODE	Failed
1027	INVALID TRANSACTION REQUEST TYPE	Failed
1028	INVALID BATCH TRANSACTION COUNT	Failed
1029	INVALID BATCH TRANSMISSION DATE	Failed
1030	INVALID BATCH HASHING TOTAL	Failed
1031	INVALID BATCH NET DEPOSIT	Failed
1032	INVALID BATCH DETAIL DATA	Failed
1033	UNABLE TO BUILD REQUEST	Failed
1034	INVALID REFUND REQUEST	Failed
1035	INVALID CARD HOLDER ID CODE	Failed
1036	INVALID ACCOUNT DATA SOURCE	Failed
1037	INVALID RETURNED ACI	Failed
1038	INVALID AUTHORIZATION SOURCE CODE	Failed
1039	INVALID APPROVAL CODE	Failed
1040	INVALID AVS RESULT CODE	Failed
1041	INVALID TRANSACTION IDENTIFIER	Failed
1042	INVALID VALIDATION CODE Void Indicator	Failed
1043	INVALID VOID INDICATOR	Failed
1044	INVALID TRANSACTION STATUS CODE	Failed
1045	INVALID REIMBURSEMENT ATTRIBUTE	Failed
1046	INVALID SETTLEMENT AMOUNT	Failed
1047	INVALID AUTH AMOUNT	Failed
1048	INVALID CARD LEVEL RESULT	Failed
1049	INVALID LEVEL FLAG	Failed
1050	INVALID OPTIONAL AMOUNT IDENTIFIER	Failed
1051	INVALID OPTIONAL AMOUNT	Failed
1052	INVALID PURCHASE ORDER NO	Failed
1053	INVALID GROUP LENGTH	Failed
1054	INVALID PAYMENT TRANSACTION INDICATOR	Failed
1055	INVALID MC IIAS INDICATOR	Failed
1056	INVALID MERCHANT SELLER ID	Failed
1057	INVALID CUSTOM IDENTIFIER DETAIL	Failed
1058	INVALID ASSOCIATION TIMESTAMP	Failed
1059	INVALID SUPPLIER REFERENCE NUMBER	Failed
1060	INVALID CARDHOLDER REFERENCE NUMBER	Failed
1061	INVALID SHIPPED TO ZIP CODE	Failed
1062	INVALID SALES TAX	Failed
1063	INVALID CHARGE DESCRIPTOR	Failed
1064	INVALID REQUESTER NAME	Failed
1065	INVALID TOTAL TAX AMOUNT	Failed
1066	INVALID TAX TYPE CODE	Failed
1067	INVALID TOTAL AUTHORIZED AMOUNT	Failed

1068	INVALID PURCHASE IDENTIFIER FORMAT CODE	Failed
1069	INVALID PURCHASE IDENTIFIER	Failed
1070	INVALID LOCAL TAX INCLUDED FLAG	Failed
1071	INVALID LOCAL TAX	Failed
1072	INVALID NATIONAL TAX INCLUDED FLAG	Failed
1073	INVALID NATIONAL TAX AMOUNT	Failed
1074	INVALID MERCHANT VAT REGISTRATION NUMBER	Failed
1075	INVALID CUSTOMER VAT REGISTRATION NUMBER	Failed
1076	INVALID SUMMARY COMMODITY CODE	Failed
1077	INVALID DISCOUNT AMOUNT	Failed
1078	INVALID FREIGHT AMOUNT	Failed
1079	INVALID DUTY AMOUNT	Failed
1080	INVALID DESTINATION ZIP CODE	Failed
1081	INVALID SHIP FROM ZIP CODE	Failed
1082	INVALID DESTINATION COUNTRY CODE	Failed
1083	INVALID UNIQUE VAT INVOICE REFERENCE NUMBER	Failed
1084	INVALID ORDER DATE	Failed
1085	INVALID VAT TAX AMOUNT	Failed
1086	INVALID VAT TAX RATE	Failed
1087	INVALID LINE ITEM COUNT	Failed
1088	INVALID LINE ITEM	Failed
1089	INVALID ALTERNATE TAX AMOUNT INDICATOR	Failed
1090	INVALID ALTERNATE TAX AMOUNT	Failed
1091	INVALID LINE ITEM CARD TYPE	Failed
1092	INVALID ITEM COMMODITY CODE	Failed
1093	INVALID ITEM CONTENT	Failed
1094	INVALID PRODUCT CODE	Failed
1095	INVALID ITEM QUANTITY	Failed
1096	INVALID UNIT OF MEASURE CODE	Failed
1097	INVALID UNIT COST	Failed
1098	INVALID DISCOUNT PER LINE ITEM	Failed
1099	INVALID LINE ITEM TOTAL	Failed
1100	INVALID ITEM DESCRIPTION	Failed
1101	INVALID ALTERNATE TAX IDENTIFIER	Failed
1102	INVALID ALTERNATE RATE APPLIED	Failed
1103	INVALID TAX TYPE APPLIED	Failed
1104	INVALID TAX AMOUNT	Failed
1105	INVALID DISCOUNT INDICATOR	Failed
1106	INVALID NET GROSS INDICATOR	Failed

1107	INVALID EXTENDED ITEM AMOUNT	Failed
1108	INVALID DEBIT CREDIT INDICATOR	Failed
1109	INVALID ITEM DISCOUNT RATE	Failed
1110	INVALID ITEM QUNTY EXPNT IND	Failed
1111	INVALID ITEM DSCNT EXPNT IND	Failed
1112	INVALID TAX RATE APPLIED	Failed
1113	INVALID TIP	Failed
1114	INVALID PROCESSOR	Failed
1115	INVALID MERCHANT NAME	Failed
1116	INVALID MERCHANT CITY	Failed
1117	INVALID MERCHANT STATE	Failed
1118	INVALID MERCHANT ZIPCODE	Failed
1119	INVALID MERCHANT TIME ZONE	Failed
1120	INVALID MERCHANT INDUSTRY ID	Failed
1121	INVALID CARD PERMISSION MERCHANT ID	Failed
1122	INVALID CARD PROCESSOR MERCHANT ID	Failed
1123	INVALID PROCESSOR STORE NUMBER	Failed
1124	INVALID PROCESSOR TERMINAL NUMBER	Failed
1125	INVALID PROCESSOR AGENT SETTLE NUMBER	Failed
1126	INVALID PROCESSOR CHAIN NUMBER	Failed
1127	BIN FILTER DENY	Failed
1128	INVALID BIN FILTER	Failed
1129	INVALID TRANSACTION REF NO	Failed
1130	FAILED TO CREATE BATCH ID	Failed
1131	FAILED TO CONNECT DB	Failed
1132	FAILED TO HANDLE CASH TRANSACTION	Failed
1133	INVALID TIP FLAG	Failed
1134	AVS ZIP FORMAT ERROR	Failed
1135	INVALID VT BATCH ID	Failed
1136	INVALID MERCHANT CATEGORY CODE	Failed
1137	INVALID ACQUIRER BIN	Failed
1138	INVALID AGENT BANK NUMBER	Failed
1139	INVALID DEVELOPER ID	Failed
1140	INVALID VERSION ID	Failed
1141	INVALID TERMINAL LOCATION CODE	Failed
1142	INVALID TERMINAL ID NUMBER	Failed
1143	INVALID MERCHANT OFFLINE APPROVAL CODE	Failed
1144	INVALID AGENT SETTLEMENT NUMBER	Failed
1145	INVALID MERCHANT ABA NUMBER	Failed
1146	INVALID BATCH NUMBER	Failed
1147	USERNAME NOT MATCHED ITS PASSWORD	Failed
1148	INVALID USER PASSWORD	Failed

1149	UNKNOWN BATCH ERROR	Failed
1150	INVALID SHARING GROUP	Failed
1151	INVALID TERMINAL ZIP CODE	Failed
4004	CLEARGATE GW SERVER NOT REACHABLE	Failed
4005	TRN DENY	Failed
4006	INVALID_MERCHANT	Failed
4007	INVALID_TERMINAL	Failed
4008	INVALID_USER_NAME	Failed
4009	INVALID_USER_PASSWORD	Failed
4010	INVALID_RECORD_FORMAT	Failed
4011	INACTIVE_TERMINAL	Failed
4012	INVALID_AUTHENTICATION	Failed
4013	INVALID_TRANSACTION_CD	Failed
4014	INVALID_OFFLINE_APPROVAL_CD	Failed
4015	INVALID_CARDHOLDER_ID_CODE	Failed
4016	INVALID_CARD_HOLDER_ID_DATA	Failed
4017	INVALID_ACCOUNT_DATA_SOURCE	Failed
4018	INVALID_CUSTOMER_DATA_FIELD	Failed
4019	INVALID_CVV_CODE	Failed
4020	INVALID_CVV_DATA	Failed
4021	INVALID_TRANSACTION_AMOUNT	Failed
4022	INVALID_CARD_NUMBER	Failed
4023	INVALID_BATCH_ID	Failed
4024	INVALID_TRANSACTION_ID	Failed
4025	INVALID_CARD_EXPIRY_DATE	Failed
4026	INVALID_AVS_DATA_FLAG	Failed
4027	INVALID_CUSTOMER_ID	Failed
4028	INVALID_CUSTOMER_WEB	Failed
4029	INVALID_CUSTOMER_EMAIL_ID	Failed
4030	INVALID_CUSTOMER_BILLING_ADD_ZIP	Failed
4031	INVALID_CUSTOMER_SHIPPING_ADD_ZIP	Failed
4032	<i>INACTIVE_MERCHANT</i>	Failed
4033	<i>INVALID_TERMINAL_ORIGIN</i>	Failed
4034	<i>INVALID_CARD_DATA_FOR_DEBIT</i>	Failed
4035	<i>INVALID_TRANSACTION_CODE_FOR_DEBIT</i>	Failed
4036	INVALID CUSTOMER ADDRESS	Failed
4037	INVALID CUSTOMER COMPANY NAME	Failed
4038	INVALID CUSTOMER DATA	Failed
4039	INVALID TRANSACTION NOTE	Failed
4040	CARD NOT SUPPORT CODE	Failed
4041	CVV REQUIRED CODE	Failed
4042	AVS REQUIRED CODE	Failed

4043	CARD REQUIRED CODE	Failed
4044	EXPIRY REQUIRED CODE	Failed
4045	TRACK DATA REQUIRED CODE	Failed
4046	CARD TOKEN GENRATION FAILED CODE	Failed
4047	PAYMENT TYPE REQUIRED CODE	Failed
4048	TRANSACTION TYPE REQUIRED CODE	Failed
4049	TRANSACTION ID REQUIRED CODE	Failed
4050	BATCH ID REQUIRED CODE	Failed
4051	TERMINAL ID REQUIRED CODE	Failed
4052	ORGANIZATION REQUIRED CODE	Failed
4053	BATCH TRANSACTION NOT FOUND CODE	Failed
4054	ALREADY SETTLED BATCH CODE	Failed
4055	DUPLICATE BATCH CODE	Failed
4056	BATCH SETTLED SUCCESSFULLY CODE	Failed
4057	BATCH SETTLEMENT FAILD CODE	Failed
4058	BATCH REJECTED CODE	Failed
4059	NETWORK UNAVAILABLE CODE	Failed
4060	UNABLE TO BUILT REQUEST CODE	Failed
4061	RECORD NOT FOUND CODE	Failed
4062	RECURRING SAVED CODE	SUCCESSFULLY ADDED
4063	RECURRING SAVING FAILED CODE	Failed
4064	RECURRING UPDATION CODE	Failed
4065	RECURRING UPDATION FAILED CODE	Failed
4066	RECURRING STATUS CHANGED SUCCESSFULLY	SUCCESSFULLY ADDED
4067	RECURRING STATUS CHANGING FAILED	Failed
4068	INVALID TRANSACTION ID CODE	Failed
4069	TRANSACTION ALREADY VOIDED CODE	Failed
4070	CARD TYPE REQUIRED CODE	Failed
4071	INVALID BATCH NO CODE	Failed
4072	TRANSACTION ALREADY REFUNDED CODE	Failed
4073	UNABLE TO VOID CODE	Failed
4074	UNABLE TO REFUND CODE	Failed
4075	UNABLE TO CAPTURE	Failed
4076	TRANSACTION CAPTURED SUCCESSFULLY	Success
4077	TRANSACTION CAPTURING FAILED	Failed
4080	INVALID BILL TYPE CODE	Failed
4081	INVALID BILL GENERATION SPAN CODE	Failed
4082	INVALID END DATE TYPE CODE	Failed
4083	INVALID END BILL COUNT CODE	Failed
4084	INVALID END BILL DATE CODE	Failed
4085	INVALID WEEK DAYS CODE	Failed
4086	INVALID MONTHLY TYPE CODE	Failed

4087	INVALID MONTHLY WEEK DAYS CODE	Failed
4088	INVALID MONTHLY DAYS POSSION CODE	Failed
4089	INVALID MONTHLY DAYS CODE	Failed
4090	INVALID START DATE CODE	Failed
4091	INVALID SPECIFIC DATES CODE	Failed
4092	SPECIFIC SAME DATES CODE	Failed
4093	INVALID RECURRING DATA CODE	Failed
4094	END BILL DATE BEFORE START CODE	Failed
4095	CARD HOLDER DATA REQUIRED CODE	Failed
4096	CARD HOLDER CODE REQUIRED CODE	Failed
4097	INVALID STATUS CODE	Failed
4098	UNABLE TO CHANGE STATUS	Failed
4099	CARD VALIDATION FAILED CODE	Failed
4100	RECURRING CIS FAILED CODE	Failed
4101	UNABLE BUILT RECURRING FILTER STRING CODE	Failed
4102	UNABLE TO BUILT NEXT BILL CODE	Failed
4103	INVALID BILL TYPE CODE	Failed
4104	INVALID ACCOUNT NUMBER	Failed
4105	INVALID ROUTING NUMBER	Failed
4106	INVALID CHECK FIRST NAME	Failed
4107	INVALID CHECK LAST NAME	Failed
4108	INVALID CUSTOMER FIRST NAME	Failed
4109	INVALID CUSTOMER LAST NAME	Failed
4110	INVALID CUSTOMER EMAIL	Failed
FAIL	ORIGINAL TRANSACTION IN PROGRESS	Failed
FAIL	TRANSACTION ALREADY REFUNDED	Failed
4211	SIGNATERE UPDATED	Success
4212	SIGNATURE ALREADY CAPTURE FOR THIS ID	Failed
4213	SIGNATURE ONLY FOR SWIPE TRANSACTIONS	Failed
5010	TRANSACTION PRINT RECEIPT CODE	Success

ACH Response Codes

Table 1.6.1

Code	Description	Status
Success	Transaction Succeeded	Success
DUPLICATE_TRANSACTION	Transaction is a Duplicate of a previously submitted transaction	Failed
DECLINED	if no payment type of Savings or Checking is setup for ACH	Failed
VELOCITY_COUNT	The number of transactions exceeded the velocity count	Failed

VELOCITY_AMOUNT	The total amount of the transaction exceeded the velocity amount	Failed
CUSTOMER_OPT_OUT_CONVERSION	If set up for ACH opt out. The customer's account is prohibited from check conversion	Failed
ACCOUNT_INVALID_ROUTING	The routing number is invalid	Failed
ERROR_INVALID_FORMAT	The MICR line is invalid	Failed
ERROR_INTERNAL	Internal server exceptions, contact support	Failed
ERROR_CONNECTION	Server connection error, contact support	Failed
ERROR_NOT_SUPPORTED	Certain operation types are not configured	Failed
ERROR_NOT_SUBSCRIBED	Not configured for the Payment Origin selected	Failed
ERROR_BATCH_CLOSED	The batch belonging to the transaction is closed	Failed
ERROR_INVALID_BATCH	The batch is not found	Failed
ERROR_INVALID_TERMINAL	The terminal is not found	Failed
ERROR_TRANSACTION_NOT_FOUND	The original transaction is not found	Failed
ACCOUNT_NOT_ACHABLE	ACH opt out or paper draft transactions that cannot be sent via ACH	Failed
ERROR_TERMINAL_DISABLED	The terminal is disabled	Failed
ERROR_INVALID_STATE	The transaction is not in a valid state to perform the requested action, for example refunding a voided transaction	Failed
ERROR_UNSPECIFIED	Additional research is required, contact support	Failed
EXCEPTION	Any other Exception from third party service	Failed

ACH RETURN REPORT Response Codes

Table 1.6.2

Code	Description	Status
4206	ACH RETURN REPORT SUCCESS CODE	Success
4207	ACH RETURN REPORT FAILED CODE	Failed
4208	ACHRETURN REPORT DATA EMPTY	Failed
4209	INVALID ACH RETURN REPORT START DATE	Failed
4210	INVALID ACH RETURN REPORT END DATE	Failed

GIFT CARD Response Codes

Table 1.6.3

Code	Description	Status
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4220	INVALID GIFT CARD TRANSACTION TYPE	Failed
4221	INVALID GIFT CARD NUMBER	Failed
4222	INVALID TO GIFT CARD NUMBER	Failed
4223	INVALID GIFT CARD REDEMPTION AMOUNT	Failed
4224	INVALID GIFT CARD PARTIAL REDEMPTION AMOUNT	Failed
4225	INVALID GIFT CARD STATUS	Failed
4226	GIFT CARD NUMBER REQUIRED	Failed
4227	GIFT CARD REDEMPTION AMOUNT REQUIRED	Failed
4228	GIFT CARD PARTIAL REDEMPTION AMOUNT REQUIRED	Failed
4229	TO GIFT CARD NUMBER REQUIRED	Failed
4230	GIFT CARD STATUS REQUIRED	Failed
4231	GIFT CARD ADD VALUE AMOUNT REQUIRED	Failed
4214	GIFT CARD BALANCE INQUIRY SUCCESS	Success
4215	GIFT CARD REDEMPTION SUCCESS	Success
4216	GIFT CARD PARTIAL REDEMPTION SUCCESS	Success
4217	GIFT CARD ADD VALUE SUCCESS	Success
4218	GIFT CARD BALANCE TRANSFER SUCCESS	Success
4219	GIFT CARD STATUS CHANGE SUCCESS	Success
4232	GIFT CARD VOID TRANSACTION SUCCESS	Success
4233	GIFT CARD ACTIVATION AMOUNT REQUIRED	Failed
4234	GIFT CARD ACTIVATION SUCCESS	Success

Address Verification Result Codes

Table 1.7

Value	Description
0	Approved. Address verification was not requested.
A	Approved. Address matches only.
B	Address Match. Street Address match for international transaction Postal Code not verified because of incompatible formats (acquirer sent both street address and Postal Code).
C	Service Unavailable: Street address and Postal Code not verified for international transaction because of incompatible formats (acquirer sent both street and Postal Code).
D	Exact Match: Street Address match for international transaction.
F	Exact Match: Street Address and Postal Code Match. Applies to UK only.
G	Verification Unavailable: Non-U.S. Issuer does not participate.
I	Verification Unavailable: Address information not verified for international transaction
M	Exact Match: Street Address match for international transaction
N	No Address and ZIP code does not match.
P	Zip Match: Postal Codes match for international transaction; street address not verified because of incompatible formats (acquirer sent both street address and Postal Code).
R	Retry: Issuer system unavailable.
S	Service Unavailable: Service not supported.
U	Verification Unavailable: Address unavailable.
W	ZIP Match: Nine character numeric ZIP match only.
X	Exact match: Nine character numeric ZIP.
Y	Exact Match: Five character numeric ZIP.
Z	Zip Match. Five character numeric ZIP match only.
1	Cardholder name and ZIP match AMEX only.
2	Cardholder name, address, and ZIP match AMEX only.
3	Cardholder name and address match AMEX only.
4	Cardholder name match AMEX only.
5	Cardholder name incorrect, ZIP match AMEX only.
6	Cardholder name incorrect, address and ZIP match AMEX only.
7	Cardholder name incorrect, address match AMEX only.
8	Cardholder, all do not match AMEX only.
Blank	The response from gateway.

Verification Code Result Codes

Table 1.8

Value	Description
M	CVV2/CVC2/CID - Match
N	CVV2/CVC2/CID - No Match
P	Not processed.
S	Merchant has indicated that Verification Code is not present on card.
U	Issuer is not certified and/or has not provided Visa encryption keys.

Month Descriptions

Table 1.9

Code	Description
1	January
2	February
3	March
4	April
5	May
6	June
7	July
8	August
9	September
10	October
11	November
12	December

State Descriptions

Table 1.10

Code	Description
0 or Null	International States
1	Alabama
2	Alaska
3	Arizona
4	Arkansas
5	Army America
6	Army Europe
7	Army Pacific
8	California
9	Colorado

10	Connecticut
11	Delaware
12	Florida
13	Georgia
14	Hawaii
15	Idaho
16	Illinois
17	Indiana
18	Iowa
19	Kansas
20	Kentucky
21	Louisiana
22	Maine
23	Maryland
24	Massachusetts
25	Michigan
26	Minnesota
27	Mississippi
28	Missouri
29	Montana
30	Nebraska
31	Nevada
32	New Hampshire
33	New Jersey
34	New Mexico
35	New York
36	North Carolina
37	North Dakota
38	Ohio
39	Oklahoma
41	Oregon
42	Pennsylvania
43	Rhode Island
44	South Carolina
45	South Dakota
46	Tennessee
47	Texas
48	Utah
49	Vermont
50	Virginia
51	Washington
52	Washington D.C.

53	West Virginia
54	Wisconsin
55	Wyoming

Approval Codes

Table 1.11 If the Transaction failed then this field must be empty.

Card product values in sixth position of approval code for Visa transactions

Value	Card Product	Description
A	Visa Traditional (US)	Used to identify any Consumer Credit card that does not offer rewards or meet the Visa Traditional Rewards threshold. This will be the default.
B	Visa Traditional Rewards (US)	Used to identify any Consumer Credit card that offers rewards that meet or exceed minimum rewards program standards for Visa Traditional Rewards and other product requirements.
C	Visa Signature	Used to identify any Consumer Credit card that offers Visa Signature-level rewards that meet or exceed minimum Visa Signature rewards and meets the additional Visa Signature requirements.
D	Visa Signature Preferred (US)	Used to identify any Consumer Credit card that meets Visa Signature Preferred product requirements.

Card product values in sixth position of approval code for MasterCard transactions.

Value	Account Type	Description
Z	N/A	MasterCard provided default value indicating that the specific cardholder account found in DE 2 (Primary Account Number [PAN]) of the transaction does not participate in Account Level Management processing for MasterCard Enhanced Value Platform or MasterCard Product Graduation.
B	MasterCard Enhanced Value Platform	Enhanced (Consumer) Account qualifies for MasterCard Enhanced Value Platform only
C	MasterCard Product Graduation	Consumer World
D	MasterCard Product Graduation	Consumer World Elite
G	MasterCard Product	Business World

	Graduation	
H	MasterCard Product Graduation	Business World Elite
I	MasterCard Product Graduation	Corporate World
J	MasterCard Product Graduation	Corporate World Elite
M	MasterCard Enhanced Value Platform and MasterCard Product Graduation	Account qualifies for MasterCard Enhanced Value Platform and MasterCard Product Graduation
P	MasterCard Product Graduation Only	Account qualifies for MasterCard Product Graduation Only
S	MasterCard High Value	Account qualifies for MasterCard High Value
T	MasterCard Product Graduation/MasterCard High Value	Account qualifies for MasterCard Product Graduation and MasterCard High Value

Approval source values in the first position of the approval code for Discover transactions

Value	Description
0	Full Positive Authorization
1	Forced Authorization
2	Client
3	Reserved
4	Discover Network System
5	Discover Network System
6	Discover Network System
7	Discover Network System
C	Client

Card product value in the sixth position of the approval code for Discover transactions.

Value	Card Product	Description
C	Consumer Credit	Core Card
R	Consumer Credit	Rewards Card

P	Consumer Credit	Premium Card
Q	Consumer Credit	Premium Plus Card
B	Commercial Credit Card	Commercial Credit Card
E	Commercial Credit Card	Commercial Executive Business Credit Card
Z	Unspecified Card Product	n/a