The SpeedChex HTTP POST API for Merchants ECheck Transaction Commands

Version 1.0.1

Introduction

The ECheck Transaction Commands detailed in this API give merchants a comprehensive platform for authorizing, modifying, voiding and processing electronic check payments through their own software.

The purpose of this document is not only to explain how to submit an ACH payment for authorization and processing, but also to present the concepts necessary for understanding what data is required, why, and what the response data should mean to your software application and your customers. Please read each section carefully

The SpeedChex Gateway and the Command/Response System

The SpeedChex Gateway supports processing for multiple payment methods including credit cards, ATM pin-debit cards, electronic checks (ACH), and remote deposit of scanned checks (Check 21).

Software applications can communicate with the SpeedChex Gateway through any one of the following established Internet protocols:

- SOAP 1.1 Web Services
- SOAP 1.2 Web Services w/MTOM attachment support
- Traditional HTTP POST

Although each of these communication protocols requires API documentation that is specific to the functionality of that protocol, each API shares a common command/response method for interacting with the gateway.

Simply put, your software issues a command to the SpeedChex Gateway to accomplish any specific task and the gateway will send back a formatted response to your command.

The Command/Response system is quite extensive and supports the ability to perform a variety of transaction management tasks including:

- Creating/Authorizing new payment transactions
- Uploading batches of transactions
- Modifying/Cancelling existing transactions or batches
- Retrieving reports
- Querying payment data

This document, like all other API documents for the SpeedChex Gateway, is targeted toward a specific subset of commands that are grouped according to either payment method, the task(s) to be performed, or both.

Available ECheck Transaction Commands

The following is a list and brief explanation of the ECheck Transaction Commands that can be issued through the *SpeedChex HTTP POST API*:

- **ECheck.Authorize** Validates the transaction data packet for errors, performs basic routing and account number validation and optionally verifies the bank account using the *Express Verify* service. Does not process the electronic check through the Federal Reserve, or verify or lock funds.
- **ECheck.Capture** Schedules a previously authorized ECheck payment for processing through the Federal Reserve at the next End-of-Day Batch Settlement date/time.
- **ECheck.ProcessPayment** Processes payments from or payments to a bank account. Performs an *ECheck.Authorize* and *ECheck.Capture* in a single command. Payment is only processed to the Federal Reserve if it passes the authorization process.
- **ECheck.VerifyBankAccount** Performs basic algorithm verification on a routing number and account number and optionally verifies the bank account using the *Express Verify* service.
- **ECheck.Update** Modifies a transaction if it has not yet been sent to the Federal Reserve for processing at the daily cut-off time.
- ECheck.Refund Reverses a previous debit that has settled (Cleared) and refunds the same amount (or less if specified) to the same bank account as the original referenced debit. Refunds are automatically captured for settlement.
- **ECheck.Void** Cancels (stops) an ECheck payment from processing if it has not yet been sent to the Federal Reserve for processing.
- **ECheck.Hold** Places a Scheduled transaction on indefinite 'Merchant Hold' status if it has not yet been sent to the Federal Reserve for processing. Authorized transactions cannot be placed on hold.
- **ECheck.RemoveHold** Removes the 'Merchant Hold' status on a transaction and reschedules the transaction for processing on the date specified in the command.

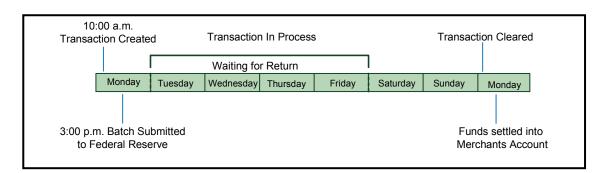
An Overview of Electronic Check Processing

Electronic checks, also referred to as ACH (Automated Clearing House) transactions, are check transactions processed electronically through the Federal Reserve. Just as with paper checks, merchants may utilize the ACH system both to send and to receive check payments between the merchant and their customers, employees, vendors, etc.

Unlike credit cards, electronic check transactions cannot be instantly verified and approved. This is due to the rules that govern the United States Federal Reserve and the fragmented structure of the current banking system. The banking industry is working to make all forms of check processing and authorization occur in real-time, but due to political, economic, and consumer protection issues, that technology is still years away from widespread implementation.

What has been implemented instead is a system that still provides authorization, but over a period of days instead of seconds. There are several reasons for the slowness of the process, but the bottom line is that the process has been made logistically slow on purpose to protect bank account owners from fraud and error.

The following chart shows a step-by-step breakdown of the authorization process for an electronic check transaction:



Steps of an Electronic Check Authorization

Instead of being sent between banks in real-time, all electronic check transactions are batched and sent between banks overnight through the Federal Reserve (on banking business days only). A bank can take up to four business days to indicate if a transaction is rejected (Returned) and why. If no response is received within that timeframe, the transaction is considered approved (Cleared).

Please note that although banks are expected to respond with any Returns within the four business day timeframe, there are some exceptions to this rule because of laws that protect the customer. If a Return is received after a check payment has been Cleared and funds have been settled to the merchant's account, the Return transaction is classified as a Charged Back because funds will need to be "charged back" from the merchant's account and returned to the customer's bank.

Data Security and Protection

Protecting the financial transaction data processed through the SpeedChex Gateway is of utmost priority. This means not only implementing the highest levels of security standards in data encryption and system security, but also setting strict controls that limit authorized access to sensitive information.

Every merchants is assigned a unique Merchant ID, GateID, and GateKey that must be kept confidential and will be required as part of each data packet sent to the SpeedChex Gateway. In addition, an IP filtering scheme may be implemented to ensure that command packets are only accepted from IP addresses registered by the merchant.

Verification Using Express Verify

Merchants may choose to sign up for an optional bank account verification service called *Express Verify*. This service can report in real-time whether an account exists, or whether it is currently overdrawn, frozen or closed thus ascertaining whether a check is likely to be returned.

The service returns a 3-letter verification status which can be "POS" (positive) indicating the bank account is found and in good standing, "NEG" (negative) indicating the account does not exist or is not in good standing, and "UNK" (unknown) indicating the bank account does not belong to a participating bank. The code "ERR" (error) can also result if technical problems occurred verifying the account.

Please see <u>Appendix B – Express Verify Response Codes</u> for a complete list of possible responses from the *Express Verify* system and their meanings.

Application Testing

Merchants can test the *SpeedChex HTTP POST API* by simply including an optional field called *TestMode* and setting the value of that field to "*On*". Test commands sent with "*TestMode=On*" will receive valid responses from the CCFS Payment Gateway but the command will not actually be processed by the CCFS system.

The following information may be helpful when testing your application:

Test Merchant Gateway Credentials

MerchantID: 2001 Merchant_GateID: test Merchant_GateKey: test

Test Bank Account that Passes Express Verify

Routing Number: 123123123 Account Number: <any number>

Test Bank Account that Fails Express Verify

Routing Number: 123123123 Account Number: 987654321

Please Note: Merchant ID 2001 is a demo account. Any information you transmit may be viewed by users running the CCFS demo. This includes payment accounts, names, addresses, phone numbers, and email addressees. Please always use fabricated test information.

Unique Payment Transaction Identification

Proper communication between two separate transaction management applications (like this gateway and your software application) requires that both applications share a common, unique reference for each transaction in order for the two applications to communicate intelligently.

The SpeedChex Gateway supports the following methods for uniquely referencing transactions:

Transact_ReferenceID

At the completion of each successful *Echeck.Authorization*, *ECheck.ProcessPayment* or *ECheck.Refund* command, the *Transact_ReferenceID* value returned by the gateway is the value that must be used to capture, update or void a pending transaction. The *Transact_ReferenceID* value is also included in all transaction reports as a tool for cross-referencing your internal transactions with the report results. Your software will need to store this value and associate it internally with your own payment transaction record for later transaction cross-reference.

Provider_TransactionID

The SpeedChex Gateway also supports the ability for merchants to assign their own unique internal ID's to each payment transaction. Although this value cannot be used to capture, update, or void pending transactions, the *Provider_TransactionID* value will be included in all transaction reports as an alternative (and easier) method of cross-referencing your internal transactions with the report results. It will also be possible to query transactions using *Provider_TransactionID* values. And finally, during batch uploads, the *Provider_TransactionID* is actually required in order to facilitate deferred response processing.

Standard Entry Class (SEC) Codes and Payment Authorization

NACHA regulations require that a transaction submitted to the Federal Reserve for processing must include something called a Standard Entry Class (SEC) Code to communicate exactly how the customer gave the merchant authorization to debit/credit their bank account.

The following table shows the proper SEC Codes to use depending on how the merchant obtained authorization to debit/credit an individual or company's bank account:

Authorization Method	SEC Code
Document Signed by Individual	PPD
Document Signed by Company	CCD
Via the Internet	WEB
Recorded Telephone Call	TEL
Non-Recorded Telephone Call with Notification Sent via First Class Mail	TEL
*Paper Check Scanned and Converted to Electronic Check at Point-of-Sale	POP
*Paper Check Received via Mail/Courier Scanned and Converted to Electronic Check	ARC
*Check Received at Point-of-Sale Scanned and Converted to Electronic Check in Back Office	BOC

Available Standard Entry Class (SEC) Codes

* Please note that POP, ARC, and BOC transactions can only be created using the Remote Deposit Batch API

If NACHA decides to audit a merchant or processor, part of the audit process may require providing proof of the authorization method (SEC Code) specified for any given transaction. Failure to properly comply and provide proof of the authorization can result in fines up to \$10,000 for each transaction in violation, so it is important that you correctly indicate the SEC Code and maintain good records of your authorizations. Additional information about SEC Codes can be provided upon request.

Overview of the Command Process

Integrating this API into your software application is not difficult. The following is an overview of the major components of this task:

- **Data Gathering** Solution Providers are responsible for collecting and submitting all data associated with a transaction command.
- Submitting a Gateway Command You must create a script or program that submits a command packet over the Internet using the secured HTTPS protocol. The rules for constructing the HTTPS command are defined in the next section of this document titled <u>General Implementation Rules and Specifications</u>.
- **Transaction Packet Validation** The SpeedChex Payment Gateway parses the command packet for missing data, invalid field values, security violations, etc.
- **Response Processing** The SpeedChex Payment Gateway will return a comma-delimited, JSON, or XML text response after it receives and processes the command. The exact format and meaning of the text response will be based on the command issued as defined in the next section of this document titled <u>General Implementation Rules and Specifications</u>.

General Implementation Rules and Specifications

Field Name	Usage	Field Value Format Constraints
MerchantID	Required	Provided by your Account Manager
Merchant_GateID	Required	Provided by your Account Manager
Merchant_GateKey	Required	Provided by your Account Manager
Command	Required	Set this value to the name of the command you are issuing to the SpeedChex Payment Gateway.
CommandVersion	Required	Set to 1.0 to enforce this API documentation revision.
ResponseType	Optional	Value must be: JSON, XML, or CSV. Default is CSV
TestMode	Optional	Set this value to 'On' to test a command response without actually executing the command. Default value is 'Off'.
<additional as="" fields="" required=""></additional>		Based on the Command value, you may be required to define additional fields to send in the command packet. These fields will be defined in the various sections of this document dedicated to each specific command.

1. **Basic Command Template** – The following table defines the basic data fields that will be required when submitting any command through the *SpeedChex HTTP POST API*:

2. **Submitting a Gateway Command** – To submit a gateway command to SpeedChex, use either HTTP POST or GET to transmit the necessary command fields to the following secure URL:

https://www.speedchex.com/datalinks/transact.aspx

If using HTTP GET, please make sure that all data values have been encoded to be URL-safe.

3. **Response Template** – In response to any command, the SpeedChex Payment Gateway will return a simple comma-delimited text response indicating whether the command succeeded or failed and any additional information necessary to interpret the response. The following table defines the field values that will be returned in every response and their meaning:

Field Name	Field Contents	Max Length	Additional Information
CommandStatus	Returns one of the following values: • Approved • Declined • Error	30	Indicates the success or failure of the command issued.
ResponseCode	A 3 digit code indicating command success or reason for command failure.	3	Please refer to Appendix A - Response Code Definitions for
Description	Description of the ResponseCode value	255	a list of possible ResponseCode values, their descriptions, and what ErrorInformation may be
ErrorInformation	Additional information to help determine the source of an error.	50	made available.
ExpressVerify.Status	Returns one of the following values if <i>Express Verify</i> is activated: 'POS', 'NEG', 'UNK' or 'ERR'.	3	ExpressVerify is a complex object that contains the bank account verification results from <i>Express Verify</i> .
ExpressVerify.Code	A code indicating the reason for the <i>ExpressVerify</i> .Status value	5	Please refer to Appendix B -
ExpressVerify.Description	A brief explanation for the <i>ExpressVerify</i> .Status value	255	Express Verify Response Codes for more details about these responses.
ResponseData	Please see the documentation for the specific command to be issued for an explanation of the possible value(s) for this field.		This is a generic object that can take the form of any scalar or complex object called for by the command that is issued.
Provider_TransactionID	The <i>Provider_TransactionID</i> value defined in the command.	50	This value can be used as a transaction reference when processing responses must be deferred (like for batch uploads)
PaymentKey™	A unique token assigned to the credit card account just used AND the billing profile associated with that credit card.	255	Merchant must sign up for the PaymentKeys™ service.
Transact_ReferenceID	A unique ID assigned to each command submitted to the SpeedChex Gateway.	30	This value can be used for as a unique transaction identifier or as a reference for support on any command.

Command: ECheck.Authorize

Description: Validates the transaction data packet for errors, performs basic routing and account number validation and optionally verifies the bank account using the *Express Verify* service. Does not process the electronic check through the Federal Reserve, or verify or lock funds. The following table defines the data field rules for this command:

Field Name	Usage	Field Value Format Constraints	Max Length
MerchantID	Required	Provided by your Account Manager	-
Merchant_GateID	Required	Provided by your Account Manager	-
Merchant_GateKey	Required	Provided by your Account Manager	-
Command	Required	Set to ECheck.Authorize	50
CommandVersion	Required	Set to 1.0 for this API documentation revision.	-
TestMode	Optional	Set this value to <i>On</i> to test a command response. Default value is <i>Off</i> .	3
Provider_TransactionID	Optional	A unique identifier assigned to this transaction	50
PaymentDirection	Required	Value must be FromCustomer or ToCustomer	12
Amount	Required	The amount of the check.	-
CheckType	Required	Value must be Personal or Business	8
AccountType	Required	Value must be Checking or Savings	8
RoutingNumber	Required	ABA routing number on customer's check.	9
AccountNumber	Required	Customer's bank account number	30
CheckNumber	Conditional	Customer's check number. Only required for non-ACH transactions.	25
LocationName	Optional	Any location pre-defined by the merchant in their administration console	50
Merchant_ReferenceID	Optional	The internal ID or invoice number the merchant wants assigned to this payment	50
Description	Optional	A description for this transaction	100
Billing_CustomerID	Optional	A unique ID assigned to the Customer.	50
Billing_CustomerName	Required	Name of bank account holder	80
Billing_Company	Conditional	Company name on bank account. Required if <i>CheckType</i> field is set to Business	80
Billing_Address1	Required	Street Address	70
Billing_Address2	Optional	Additional street address information	40
Billing_City	Required	City	70
Billing_State	Required	2-letter state abbreviation	30
Billing_Zip	Required	Zip Code (format: ##### or ############)	10
Billing_Country	Optional	2-letter country code (ISO 3166). Default is US	2
Billing_Phone	Required	Phone number	20
Billing_Email	Conditional	Payment notification email address. Required if SendEmailToCustomer is set to Yes	80
SendEmailToCustomer	Required	Value must be Yes or No	3
Customer_IPAddress	Conditional	Customer's IP Address. Only required if the SECCode field is set to WEB .	15
Run_ExpressVerify	Required	Value must be Yes or No	3
SECCode	Required	Value must be PPD , CCD , WEB , or TEL .	3
ResponseType	Optional	Must be JSON, XML, or CSV. Default is CSV	4

Command: ECheck.Capture

Description: Schedules a previously authorized ECheck payment for processing through the Federal Reserve at the next End-of-Day Batch Settlement date/time. The following table defines the data field rules for this command:

Field Name	Usage	Field Value Format Constraints	Max Length
MerchantID	Required	Provided by your Account Manager	-
Merchant_GateID	Required	Provided by your Account Manager	-
Merchant_GateKey	Required	Provided by your Account Manager	-
Command	Required	Set to ECheck.Capture	-
CommandVersion	Required	Set to 1.0 for this API documentation revision	-
TestMode	Optional	Set this value to On to test a command response. Default value is Off .	3
Transact_ReferenceID	Required	The unique <i>Transact_ReferenceID</i> sent in response to the original <i>ECheck.Authorize</i> command.	50
Provider_TransactionID	Optional	Updates the unique identifier the merchant wants assigned to this transaction	50
DateScheduled	Optional	Date to process payment. (format: mm/dd/yyyy)	-
Amount	Optional	Provides option to process a different payment amount than was originally authorized.	-
Merchant_ReferenceID	Optional	Update the internal ID or invoice number the merchant wants assigned to this payment	50
ResponseType	Optional	Must be: JSON, XML, or CSV. Default is CSV	4

Command: ECheck.ProcessPayment

Description: Processes payments from or payments to a bank account. Performs an *ECheck.Authorize* and *ECheck.Capture* in a single command. Payment is only processed to the Federal Reserve if it passes the authorization process. The following table defines the data field rules for this command:

Field Name	Usage	Field Value Format Constraints	Max Length
MerchantID	Required	Provided by your Account Manager	-
Merchant_GateID	Required	Provided by your Account Manager	-
Merchant_GateKey	Required	Provided by your Account Manager	-
Command	Required	Set to ECheck.ProcessPayment	50
CommandVersion	Required	Set to 1.0 for this API documentation revision.	-
TestMode	Optional	Set this value to On to test a command response. Default value is Off .	3
Provider_TransactionID	Optional	A unique identifier assigned to this transaction	50
DateScheduled	Optional	Date to process payment. (format: mm/dd/yyyy)	-
PaymentDirection	Required	Value must be <i>FromCustomer</i> or <i>ToCustomer</i>	12
Amount	Required	The amount of the check.	-
CheckType	Required	Value must be Personal or Business	8
AccountType	Required	Value must be Checking or Savings	8
RoutingNumber	Required	ABA routing number on customer's check.	9
AccountNumber	Required	Customer's bank account number	30
CheckNumber	Conditional	Customer's check number. Only required for non-ACH merchants.	25
LocationName	Optional	Any location pre-defined by the merchant in their administration console	50
Merchant_ReferenceID	Optional	The internal ID or invoice number the merchant wants assigned to this payment	50
Description	Optional	A description for this transaction	100
Billing_CustomerID	Optional	A unique ID assigned to the Customer.	20
Billing_CustomerName	Required	Name of person on bank account	80
Billing_Company	Conditional	Company name on bank account. Required if <i>CheckType</i> field is set to Business	80
Billing_Address1	Required	Street Address on bank account	70
Billing_Address2	Optional	Additional street address information	40
Billing_City	Required	City	70
Billing_State	Required	State	30
Billing_Zip	Required	Zip Code (format: ##### or ##########)	10
Billing_Country	Optional	2-letter country code (ISO 3166). Default is US	2
Billing_Phone	Required	Phone number	20
Billing_Email	Conditional	Payment notification email address. Required if SendEmailToCustomer is set to Yes	80
SendEmailToCustomer	Required	Value must be Yes or No	3
Customer_IPAddress	Conditional	Customer's IP Address. Only required if the SECCode field is set to WEB .	15
Run_ExpressVerify	Required	Value must be Yes or No	3
SECCode	Required	Value must be PPD , CCD , WEB , or TEL .	3
ResponseType	Optional	Must be: JSON, XML, or CSV. Default is CSV	4

Command: ECheck.VerifyBankAccount

Description: Performs basic algorithm verification on a routing number and account number and optionally verifies the bank account using the *Express Verify* service. The following table defines the data field rules for this command:

Field Name	Usage	Field Value Format Constraints	Max Length
MerchantID	Required	Provided by your Account Manager	-
Merchant_GateID	Required	Provided by your Account Manager	-
Merchant_GateKey	Required	Provided by your Account Manager	-
Command	Required	Set to ECheck.VerifyBankAccount	50
CommandVersion	Required	Set to 1.0 for this API documentation revision.	-
TestMode	Optional	Set this value to On to test a command response. Default value is Off .	3
PaymentDirection	Required	Value must be FromCustomer or ToCustomer	12
Amount	Required	The amount of the check.	-
CheckType	Required	Value must be Personal or Business	8
AccountType	Required	Value must be <i>Checking</i> or <i>Savings</i>	8
RoutingNumber	Required	ABA routing number on customer's check.	9
AccountNumber	Required	Customer's bank account number	30
Run_ExpressVerify	Required	Value must be Yes or No	3
ResponseType	Optional	Must be: JSON, XML, or CSV. Default is CSV	4

Response Note: If *Run_ExpressVerify* is set to Yes, the SpeedChex Gateway will return a failure *ResponseCode* value of 202 (Failed Express Verify) v

return a failure *ResponseCode* value of **202** (**Failed Express Verify**) when the *ExpressVerify*. *Status* value returns is **NEG** (negative).

If the *ExpressVerify.Status* value is **POS** (positive) or **UNK** (unknown), the *ResponseCode* value will be set to **000** (**Command Successful. Approved.**).

Please refer to **Appendix B - Express Verify Response Codes** for more details about the possible responses from the *Express Verify* service to make sure your code handles each type of response appropriately according to your company's or your merchant's policies.

Command: ECheck.Update

Description: Modifies a transaction if it has not yet been sent to the Federal Reserve for processing. The following table defines the data field rules for this command:

Note: Please do not specify a value for an optional field if you do not intend to modify its value.

Field Name	Usage	Field Value Format Constraints	Max Length
MerchantID	Required	Provided by your Account Manager	-
Merchant_GateID	Required	Provided by your Account Manager	-
Merchant_GateKey	Required	Provided by your Account Manager	-
Command	Required	Set to ECheck.Update	50
CommandVersion	Required	Set to 1.0 for this API documentation revision.	-
TestMode	Optional	Set this value to On to test a command response. Default value is Off .	3
Transact_ReferenceID	Required	The unique <i>Transact_ReferenceID</i> sent in response to the original <i>ECheck.Authorize</i> or <i>ECheck.ProcessPayment</i> command.	50
Provider_TransactionID	Optional	A unique identifier assigned to this payment	50
DateScheduled	Optional	Date to process payment. (format: mm/dd/yyyy)	-
PaymentDirection	Optional	Value must be FromCustomer or ToCustomer	12
Amount	Optional	The amount of the check.	-
CheckType	Optional	Value must be Personal or Business	8
AccountType	Optional	Value must be <i>Checking</i> or <i>Savings</i>	8
RoutingNumber	Optional	ABA routing number on customer's check.	9
AccountNumber	Optional	Customer's bank account number	30
CheckNumber	Optional	Customer's check number. Only required for non-ACH transactions.	25
LocationName	Optional	Any location pre-defined by the merchant in their administration console	50
Merchant_ReferenceID	Optional	The internal ID or invoice number the merchant wants assigned to this payment	50
Description	Optional	A description for this transaction	100
Billing_CustomerID	Optional	A unique ID assigned to the Customer.	20
Billing_CustomerName	Required	Name of person on bank account	80
Billing_Company	Conditional	Company name on bank account. Required if <i>CheckType</i> field is set to Business	80
Billing_Address1	Required	Street Address on bank account	70
Billing_Address2	Optional	Additional street address information	40
Billing_City	Required	City	70
Billing_State	Required	State	30
Billing_Zip	Required	Zip Code (format: ##### or #####-####)	10
Billing_Country	Optional	2-letter country code (ISO 3166). Default is US	2
Billing_Phone	Required	Phone number	20
Billing_Email	Conditional	Payment notification email address. Required if <i>SendEmailToCustomer</i> is set to Yes	80
SendEmailToCustomer	Optional	Value must be Yes or No	3
Customer_IPAddress	Optional	Payer's IP Address. Only required if the SECCode field is set to WEB .	15
Run_ExpressVerify	Optional	Value must be Yes or No	3
SECCode	Optional	Value must be PPD , CCD , WEB , or TEL .	3
ResponseType	Optional	Must be: JSON, XML, or CSV. Default is CSV	4

Command: ECheck.Refund

Description: Reverses a previous debit that has settled (Cleared) and refunds the same amount (or less if specified) to the same bank account as the original referenced debit. Refunds are automatically captured for settlement. The following table defines the data field rules for this command:

Field Name	Usage	Field Value Format Constraints	Max Length
MerchantID	Required	Provided by your Account Manager	-
Merchant_GateID	Required	Provided by your Account Manager	-
Merchant_GateKey	Required	Provided by your Account Manager	-
Command	Required	Set to ECheck.Refund	-
CommandVersion	Required	Set to 1.0 for this API documentation revision	-
TestMode	Optional	Set this value to On to test a command response. Default value is Off .	3
Transact_ReferenceID	Required	The unique <i>Transact_ReferenceID</i> sent in response to the original debit <i>ECheck.Authorize</i> or <i>ECheck.ProcessPayment</i> command.	50
Provider_TransactionID	Optional	A unique identifier the merchant wants assigned to the new refund payment	50
DateScheduled	Optional	Date to process this payment.	-
Amount	Optional	Use this field if you need to specify a refund amount less than the original debit amount.	-
Merchant_ReferenceID	Optional	The internal ID or invoice number the merchant wants assigned to this refund transaction.	50
Description	Optional	A description for the refund transaction	100
ResponseType	Optional	Must be: JSON, XML, or CSV. Default is CSV	4

Command: ECheck.Void

Description: Cancels (stops) a transaction from processing to the Federal Reserve. The following table defines the data field rules for this command:

Field Name	Usage	Field Value Format Constraints	Max Length
MerchantID	Required	Provided by your Account Manager	-
Merchant_GateID	Required	Provided by your Account Manager	-
Merchant_GateKey	Required	Provided by your Account Manager	-
Command	Required	Set to <i>ECheck.Void</i>	50
CommandVersion	Required	Set to 1.0 for this API documentation revision.	-
TestMode	Optional	Set this value to On to test a command response. Default value is Off .	3
Transact_ReferenceID	Required	The unique <i>Transact_ReferenceID</i> sent in response to the original <i>ECheck.Authorize</i> or <i>ECheck.ProcessPayment</i> command.	50
ResponseType	Optional	Must be: JSON, XML, or CSV. Default is CSV	4

Command: ECheck.Hold

Description: Places a scheduled transaction on 'Merchant Hold' if it has not yet been sent to the Federal Reserve for processing. This is a delay in processing that a merchant may impose on a transaction until they are ready to remove the hold. Authorized transactions cannot be placed on hold.

Field Name	Usage	Field Value Format Constraints	Max Length
MerchantID	Required	Provided by your Account Manager	-
Merchant_GateID	Required	Provided by your Account Manager	-
Merchant_GateKey	Required	Provided by your Account Manager	-
Command	Required	Set to ECheck.Hold	50
CommandVersion	Required	Set to 1.0 for this API documentation revision.	-
TestMode	Optional	Set this value to On to test a command response. Default value is Off .	3
Transact_ReferenceID	Required	The unique <i>Transact_ReferenceID</i> sent in response to the original <i>ECheck.Authorize</i> , <i>ECheck.ProcessPayment</i> or <i>ECheck.Refund</i> command.	50
ResponseType	Optional	Must be: JSON, XML, or CSV. Default is CSV	4

The following table defines the data field rules for this command:

Command: ECheck.RemoveHold

Description: Removes the 'Merchant Hold' status on a transaction and reschedules the transaction for processing on the date specified in the command. The following table defines the data field rules for this command:

Field Name	Usage	Field Value Format Constraints	Max Length
MerchantID	Required	Provided by your Account Manager	-
Merchant_GateID	Required	Provided by your Account Manager	-
Merchant_GateKey	Required	Provided by your Account Manager	-
Command	Required	Set to ECheck.RemoveHold	50
CommandVersion	Required	Set to 1.0 for this API documentation revision.	-
TestMode	Optional	Set this value to On to test a command response. Default value is Off .	3
Transact_ReferenceID	Required	The unique <i>Transact_ReferenceID</i> sent in response to the original <i>ECheck.Authorize</i> , <i>ECheck.ProcessPayment</i> or <i>ECheck.Refund</i> command.	50
DateScheduled	Required	Date to process this payment.	-
ResponseType	Optional	Must be: JSON, XML, or CSV. Default is CSV	4

Response Code	Description	Contents of the ErrorInformation Field		
GATEWAY CO	MMAND SUCCESS			
000	Command Successful. Approved.			
GATEWAY CO	MMAND ERRORS			
100	Invalid Gateway Credentials	Credential Object Name		
101	Invalid Gateway Command			
102	Duplicate Command Not Processed	Transact_ReferenceID of the original Command		
103	Transaction Cannot Be Modified Transaction S			
104	Batch Cannot Be Modified Batch Status			
105	Invalid Transact_ReferenceID			
106	Invalid BatchID			
107	Non-Unique Reference/Transaction ID	Field Name		
108	Invalid Reference/Transaction ID Field Name			
109	Invalid Source IP			
110	Invalid Value In Message			
INPUT DATA V	ALIDATION ERRORS			
150	Required Field Missing	Field Name		
151	Field Value Is Not Valid	Field Name		
152	Field Value Exceeds Maximum Length	Field Name		
PAYMENT ACC 200	COUNT VERIFICATION FAILURES			
201	Failed CVN			
202	Failed Express Verify			
203	Invalid Credit Card Number			
204	No Such Card Issuer			
205	Expired Card			
206	Invalid Expiration Date			
208	Call Issuer for Further Information			
209	Invalid Routing Number			
210	Invalid Bank Account Number			
211	Invalid PIN			
212	Invalid PaymentKey			
	COUNT DECLINES			
300	Transaction was Declined by Processor			
301	Transaction was Rejected by Gateway			
302	No Card Number on File with Issuer			
304	Invalid Account Type			
305	Account Closed			
306	Account Inactive			
	Response Code Definitions Continued on	Next Page		

Appendix A – Response Code Definitions

Response Code	Description	Contents of the ErrorInformation Field	
PAYMENT AC	COUNT DECLINES (continued)		
307	Account Frozen		
309	Insufficient Funds		
310	Over Limit		
311	Do Not Honor		
312	Transaction Not Allowed	Reason (if known)	
313	Invalid for Debit Reason (if known)		
314	Invalid for Credit Reason (if known)		
315	Customer Opt Out Reason (if known)		
316	Customer Advises Not Authorized		
317	Manual Key Not Allowed		
318	Duplicate Transaction at Processor		
319	PaymentKey Authentication Failed		
FRAUD DECL	NES		
400	Pick Up Card		
401	Lost Card		
402	Stolen Card		
403	Fraudulent Card		
404	Excessive Declines From Same Source		
405	Excessive PIN Attempts		
406	Excessive Purchase Frequency		
	IRECTIVES FROM PROCESSOR		
500	Declined - Stop All Recurring Payments		
501	Declined - Update Cardholder Data Available		
502	Declined - Further Instructions Available	Instructions	
503	Declined - Call Processor for Voice Authorization		
504	Declined - Call Processor for Fraud Instructions		
PROCESSOR	ADMINISTRATIVE ERRORS		
600	Internal Gateway Error		
601	Internal Processor Error		
602	Communication Error with Issuer		
603	Communication Error with Processor		
604	Processor Feature Not Available		
605	Processor Format Error		
606	Invalid Terminal Number		
607	Merchant Not Setup		
608	Merchant Account is Inactive		
609	Invalid Merchant Configuration		
610	Invalid Payment Method for Merchant		
611	Unsupported Card Type		
OTHER			
999	Contact Support Representative		

Appendix B – Express Verify Response Codes

Bank accounts that are found and in good standing are approved with a POS (positive) result status. Accounts that do not exist or are in a negative standing at their bank are rejected with a NEG (negative) result status. If a bank account is from a bank that is not part of the *Express Verify* network or the bank is not reporting information about the bank account, the transaction is approved with an UNK (unknown) result status.

Status	Code	Description
ERR	E01	EXPRESS VERIFY SERVICE NOT ACTIVATED
NEG	P00	ACCT NOT LOCATED
NEG	P01	ACCOUNT CLOSED
NEG	P03	NO DEBITS
NEG	P04	NO CHECKS
NEG	P05	NSF
NEG	P06	UNCOLLECTED FUNDS
NEG	P12	ISSUER DECLINED
UNK	P40	NO INFO
NEG	P41	NEGATIVE INFO
UNK	P50	NON PARTICIPANT
POS	P70	VALIDATED
POS	P72	VALIDATED AMOUNT
NEG	V02	ACCOUNT NOT APPROVED
NEG	V10	INVALID ROUTING NUMBER
UNK	V90	PREAUTH VENDOR UNAVAILABLE
UNK	V91	PREAUTH VENDOR ERROR

The following table shows all possible responses from the Express Verify system: