

# Payliance ACH+RCC API Reference

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# Overview

# **Endpoints**

The Payliance API accepts HTTP POST requests in either JSON or XML format.

JSON Content-Type: application/json

o XML Content-Type: text/xml

• HTTP Request Method: POST

• The Payliance API has two Endpoint URLs:

Staging API Endpoint: https://staging.api.payliance.com/<request path>

Production API Endpoint: <a href="https://api.payliance.com/<request-path">https://api.payliance.com/<request-path</a>

## **Authentication**

The Payliance API authentication uses a Bearer Authentication header.

Authorization: Bearer < SecretKey>

An Authentication key will be provided for each configured merchant location. Separate keys will be provided for Staging and Production environments.

# Whitelisting

- The Staging API Endpoint uses geofencing to restrict access to the United States and Canada. To access the Staging endpoint from locations outside the United States or Canada, contact your Sales or Implementations representative to whitelist your IP address.
- The Production API Endpoint uses IP address whitelisting to restrict access. Contact your Sales or Implementations representative to whitelist your IP address prior to your production go-live.
- Attempting to access the API from a restricted location will result in a HTTP 403 (Forbidden) response.

# **Payment Transactions**

The Payliance API supports requests for ACH, RCC and RTP transactions.

# **Functions**

Function	Description	Request Path
Debit	Submit a transaction to debit a customer's bank account. Can be processed as an ACH or RCC transaction.	api/v1/echeck/debit
Credit	Submit a transaction to credit a customer's bank account. Can be processed as an ACH or RTP transaction.	api/v1/echeck/credit
Void	Invalidate a pending transaction so that it will not be processed.	api/v1/echeck/void
Refund	Create a refund (credit) transaction for a debit that has been processed.	api/v1/echeck/refund
Retrieve	Retrieve details for a previously submitted debit, credit or refund transaction.	api/v1/echeck/retrieve
QueryInstitution	Submit a bank routing number to return RTP eligibility.	api/v1/echeck/queryinstitution
QueryPrefundedBalance	Returns the current day prefunded account activity.	api/v1/echeck/queryprefundedbalance
QueryReturns	Retrieve all transactions that have received returns in a specified date range.	api/v1/echeck/queryreturns
QuerySettlements	Retrieve all transactions that have settled in a specified date range.	api/v1/echeck/querysettlements

## DEBIT and CREDIT:

The Debit and Credit functions have the same request and response formats.

Request Method	Description	API
Debit	Submit a transaction to debit a customer's	api/v1/echeck/debit
	bank account.	
Credit	Submit a transaction to credit a customer's	api/v1/echeck/credit
	bank account.	

# DEBIT and CREDIT Request

Parameter	Description	Format
UniqueTranId	Required	String, up to 50 characters.
	Merchant-defined unique transaction	
	reference.	
Routing	Required	Numeric string, 9 digits.
	Customer's bank routing number.	
AccountNumber	Required	Numeric string, 3-17 digits.
	Customer's bank account number.	
CheckNumber	Required if SEC is ARC, BOC, ICL, POP,	Numeric string, up to 16 digits.
	or RCK. Otherwise, optional.	
	Customer's check number.	
CheckAmount	Required.	Decimal.
	Dollar amount of the transaction.	
		Do not include currency
	This is the total amount to be debited	symbols or commas.
	from or credited to the customer's	
	account.	
	For Pre-Note transactions submit 0.	
SecCode	Required.	String, 3 characters.
Second	Used to specify the type of the	String, 3 characters.
	transaction.	See Reference: SEC Codes
	Valid values for SecCode are:	
	ACH: ARC, BOC, CCD, POP, PPD, RCK,	
	TEL, WEB	
	RCC/RDC: IC2, ICL	
	RTP: RTP	
AccountType	Required.	String, up to 35 characters.
	Indicates the type of the bank account	
	being debited or credited.	
	Valid AccountType values are:	
	Personal Checking, Personal Saving,	
	Business Checking, Business Saving.	

	For POP transactions, AccountType	
	must be Personal Checking or Personal	
	Saving.	
LastName	Required if SEC is CCD, PPD, RCK, TEL,	String, 2 to 50 characters.
	WEB, RTP, IC2 or ICL*.	g,
	Optional if SEC is ARC, BOC, or POP.	
	*If AccountType is Business Checking or	
	Business Saving, either LastName or	
	CompanyName is required.	
	Look rome a consisted with suctom of	
	Last name associated with customer's bank account.	
Cinat Nove o		String was to FO characters
FirstName	Required if SEC is IC2	String, up to 50 characters.
	Required if SEC is RTP and AccountType	
	is Personal Checking or Personal Saving.	
	Otherwise, optional.	
	First name associated with customer's	
	bank account.	
CompanyName	If AccountType is Business Checking or	String, 2 to 50 characters.
Companyitame	Saving either LastName or	3tmg, 2 to 30 that deters.
	CompanyName is required.	
	company name is required.	
	Company name associated with	
	customer's bank account	
Address1	Required if SEC is ARC, BOC, POP, or	String, up to 50 characters.
	RCK. Otherwise, optional.	, ap 22 23 and 25 and 2
	, ' <b>'</b>	
	Customer's billing street address.	
Address2	Line 2 of customer's billing street	String, up to 50 characters.
	address.	
City	Required if SEC is IC2 or POP.	String, up to 30 characters.
,	Otherwise, optional.	
	Customer's billing address city.	
State	Required if SEC is IC2 or POP.	String, 2-letter USPS state code.
	Otherwise, optional.	
		Example: OH
		<u>USPS State Codes</u>
	Customer's billing address state code.	
Zip	<b>Required</b> if SEC is IC2. Otherwise,	String, 5-digit, 9-digit.
	optional.	#####, ########, or
		####-###
	Customer's billing zip code.	
Phone	Phone number associated with the	Numeric string, 10 digits.
	customer's bank account.	

	T	Т
	Note: Additional merchant	
	configuration is required to be able to	
	specify custom descriptors.	
IsSameDay	Used to indicate whether to process an	Boolean.
	ACH transaction in the same day	
	processing window.	
	Note: Additional merchant	
	configuration is required for same day	
	processing and same day transaction	
	pricing may apply.	
FutureDate	Used to indicate a future effective date	Datetime, up to 30 days in the
	for a transaction.	future.
	Total chansactions	ratare.
	Transaction will be held and sent to	mm-dd-yyyy or yyyy-mm-dd
	bank to be effective on the FutureDate	I I I I I I I I I I I I I I I I I I I
	provided. Sending a date in the past will	
	cause the transaction to be processed	
	as if a future date was not sent.	
	as if a future date was not sent.	
	Note: Additional merchant	
	configuration is required for future date	
	processing and future date transaction	
	pricing may apply.	
MicroEntry	Used to indicate whether the	Boolean.
MicroEntry	transaction should be formatted	Boolean.
	according to the Nacha standard for a	
	micro-entry transaction.	
	Transactions with amount between 0	
	and 1 and MicroEntry set to true will	
	use "ACCTVERIFY" in the company entry	
	description field.	
	Note: Additional merchant	
	configuration is required for micro entry	
C	formatting.	Do alson
ConvenienceFee	Used to indicate whether to process the	Boolean.
	transaction with a convenience fee.	
	Note: Additional more bank	
	Note: Additional merchant	
	configuration is required for	
0 1 - 1	convenience fee processing.	
ConvenienceFeeAmount	Used to specify the dollar amount for	Decimal.
	the convenience fee. Overrides	
	merchant default convenience fee	Do not include currency
	settings.	symbols or commas.

# DEBIT and CREDIT Response

Parameter	Description	Format
AuthorizationId	Transaction authorization code assigned by Payliance.	Numeric string.
ValidationCode	Code indicating whether the transaction validated successfully.	Numeric string, 1-3 digits.
	<ul> <li>1 – Transaction validated and will be sent to the bank.</li> <li>All other codes indicate an invalidation error or an RTP decline. The "message" parameter will return more information on the reason for the error.</li> </ul>	
successful	True if the transaction validated or False if the transaction invalidated.  If False is returned, the transaction will not be processed.	Boolean.
message	Descriptive error message corresponding to the "ValidationCode" parameter. Empty if ValidationCode is 1.	String.

#### VOID:

Use the VOID function to cancel a validated debit or credit transaction that has not been sent to the bank for processing. VOID can be used the day the transaction is submitted up until the merchant's bank cutoff time. VOID is not applicable for RTP transactions.

#### Void Request

Endpoint: api/v1/echeck/void

Parameter	Description	Format
AuthorizationId	The authorization code assigned by Payliance for the original Debit or Credit transaction.	Numeric string.
	The AuthorizationId is provided in the response of the Debit and Credit functions.	

#### Void Response

Parameter	Description	Format
successful	True if the transaction was successfully voided and will not be sent to the bank.	Boolean.
	If False is returned, see the response message for more information indicating why the transaction could not be voided.	
message	Descriptive error message if the transaction could not be voided. Empty if void was successful.	String.

#### **REFUND:**

Use the REFUND function to issue a refund for a prior debit transaction that has been sent to the bank for processing. REFUND will create a credit transaction for the original debit transaction amount, routing and account number. The REFUND function cannot be used to reverse credit transactions. REFUND is not applicable for RTP transactions.

#### Refund Request

Endpoint: api/v1/echeck/refund

Parameter	Description	Format
AuthorizationId	The authorization code assigned by Payliance for the original Debit transaction.	Numeric string.
	The AuthorizationId is provided in the response of the Debit function.	

#### Refund Response

Parameter	Description	Format
AuthorizationId	Authorization code assigned by Payliance for	Numeric string.
	the refund transaction.	
successful	True if the refund was created successfully.	Boolean.
	If False is returned, the refund was not	
	issued. See the response message for more	
	information.	
message	Descriptive error message including the	String.
	validation code if the transaction could not	
	be refunded. Message contains the text	
	"Validation Code 1" if refund was successful.	

#### RETRIEVE:

Use the RETRIEVE function to return the transaction details for a prior Debit, Credit or Refund transaction.

## Retrieve Request

Endpoint: api/v1/echeck/retrieve

Parameter	Description	Format
UniqueTranId	Merchant-defined unique transaction reference from the Debit or Credit transaction.	String, up to 50 characters.
	A RETRIEVE request must include either UniqueTranld or AuthorizationId.	
AuthorizationId	The authorization code assigned by Payliance for the transaction.	Numeric string.
	The AuthorizationId is provided in the response of the Debit, Credit and Refund functions.	
IncludeRiskManagementResults	Indicator to return the Risk Management status of the transaction.	Boolean.
	Note: Additional merchant configuration is required for risk management and risk management transaction pricing may apply.	

## Retrieve Response

Parameter	Description	Format
AuthorizationId	Authorization code assigned by Payliance	Numeric string.
	for the transaction.	
Status	Status of the transaction.	Integer.
		0 – Not found
		1 – Invalidated
		2 – Pending
		4 – Sent to bank
		8 – Returned
		16 – Settled
		24 – Settled then Returned
		(Late Return)
		32 – Voided
ReturnCode	Returns a NACHA Return code if a return	String.
	has been received from the bank for the	
		Example: R02

	·	
	transaction. NULL if a return has not been	
	received.	
Routing	Customer's routing number submitted in	Numeric string, 9 digits.
	the original transaction request.	
AccountNumber	Last four digits of the customer's account	String. Includes asterisks and
	number submitted in the original	the last 4 digits of the
	transaction request.	account number.
Amount	Amount submitted in the original	Decimal.
	transaction request.	
FirstName	First Name submitted in the original	String.
	transaction request.	
LastName	Last Name submitted in the original	String.
	transaction request.	
RiskManagementResult	Returns NULL if	String.
	IncludeRiskManagementResult was sent as	
	FALSE in request. Returns sub-elements	
	Type and Description if	
	IncludeRiskMangementResult was sent as	
	TRUE in request.	
TypeId	Numeric value representing the Risk	Integer.
	Management Result received.	0 – Declined
		1 – Accepted
Description	Description of the Risk Management Result	String.
	received.	"Accepted"
		"Declined"
TranCode	TranCode submitted in the original	String.
	transaction request. Indicates if the	
	transaction is a Debit or Credit.	
UniqueTranId	UniqueTranId submitted in the original	String.
•	transaction request.	_
ConvenienceFee	The amount of the convenience fee applied	Decimal.
	to the transaction.	
successful	True if the requested transaction data was	Boolean.
	found and returned.	
message	Returns "Not found" if the requested	String.
<u> </u>	transaction cannot be retrieved.	
	I.	

#### QUERY INSTITUTION:

The Query Institution function identities the institution associated with a bank routing number and whether that institution supports ACH and RTP processing.

#### Query Institution Request

Endpoint: api/v1/echeck/queryinstitution

Request institution information including eligibility for ACH and RTP processing for a specified bank routing number.

Parameter	Description	Format
routing	Required	Numeric string, 9 digits.
	Customer's bank routing number.	

#### RTP Query Institution Response

Parameter	Description	Format
bank	The name of the financial institution	String.
	associated with the routing number.	
achEligible	Indicates whether the institution is a	Boolean.
	participant in the Fed ACH network.	
rtpEligible	Indicates whether the routing number is	Boolean.
	enabled for TCH real time payments.	
successful	Indicates whether the request was	Boolean.
	submitted successfully.	
message	Descriptive error message when successful	String.
	is false.	
	Note: A routing number that is correctly	
	formatted but not eligible for ACH or RTP	
	will return the message: "This institution	
	potentially eligible for RCC only."	

#### QUERY PREFUNDED BALANCE:

The prefunded balance query does not require inputs in the request and returns the current day's prefunded account activity up to the time of the request.

#### Query Prefunded Balance Request

Endpoint: api/v1/echeck/queryprefundedbalance Request current day prefunded account activity.

#### Query Prefunded Balance Response

Parameter	Description	Format
client	The client Id and client name associated with the prefunded account.	String.
beginningBalance	The balance of the prefunded account recorded at the beginning of the current day.	Decimal.
adjustments		
type	The type of adjustment to the prefunded account balance.	String.
		Adjustment Type Values
amount	The amount of the adjustments of this type since the beginning of day balance was recorded.	Decimal.
currentBalance	The balance of the prefunded account at the time of this request.	Decimal.
successful	Indicates whether the query request was submitted successfully.	Boolean.
message	Provides a descriptive error message if successful is false.	String.

#### **QUERY RETURNS:**

The Query Returns function retrieves return details for transactions that received a bank return during the specified date range. It is recommended to set the Start and End date request parameters to query only one day at a time. Query Returns is not applicable for RTP transactions.

**Warning**: Returns are finalized by 11 am EST. Querying the current day prior to 11 am EST could cause returned transactions to be missed.

In the Production environment, results are paged with a maximum 1000 results returned per page. In the Staging environment, results are paged with a maximum 20 results returned per page.

#### Query Returns Request

Endpoint: api/v1/echeck/queryreturns

Parameter	Description	Format
Start	Required.	DateTime. mm-dd-yyyy hh:mm:ss
	Request bank returns for the period	
	beginning with this date.	If not provided, time is
		defaulted to 00:00.
End	Required.	DateTime.
		mm-dd-yyyy hh:mm:ss
	Request returns for the period ending with	
	this date.	If not provided, time is
		defaulted to 00:00.
		To query for a single day, set
		the start and end dates to the
		same month, day, year and set
		the end date time to 23:59.
		Alternately, set the end date to
		one day greater than the start
		date and use 00:00 for both
		start and end time.
PageId	Pass the value "PAGED" in PageId to get the	String.
	first page of data. Then pass the PageId	
	value returned in the response to get the	
	next page of data.	
	If PageId is omitted from the request or not	
	populated, all result data will be returned up	
	to the maximum response size.	

# Query Returns Response

Parameter	Description	Format
Returns	NULL if request is not successful.	
	Empty [] if no returns were found in the	
	period.	
	Contains sets of transaction data for each	
	return in the period.	
AuthorizationId	Authorization code assigned by Payliance	Numeric string.
	when the transaction was submitted.	
MerchantId	Payliance Id for the merchant.	String.
DateReturned	Date the return was received from the bank.	DateTime.
UniqueTranId	UniqueTranId submitted in the original transaction request.	String.
Routing	Customer's routing number submitted in the	Numeric string, 9 digits.
Routing	original transaction request.	Numeric string, 9 digits.
AccountNumber	Last four digits of the customer's account	String. Includes asterisks and
Accountivatibei	number submitted in the original transaction	the last 4 digits of the account
	request.	number.
CheckNumber	Check number submitted in the original	String.
	transaction request.	
Name	First Name and Last Name submitted in the	String.
	original transaction request.	
Amount	Amount submitted in the original transaction	Decimal.
	request.	
ReturnAmount	Amount of the return received from the	Decimal.
	bank.	
	NOC reason codes will have 0 for the	
	ReturnAmount.	
TranStatus	Numeric value indicating the status of the	Integer.
	transaction.	
		1 – Original transaction was
		settled to the merchant's bank
		account and will be debited for
		the return amount on the next
		business day.
		2 – Original transaction was
		pending deposit when returned.
		Funds will not be settled to
		merchant's bank account.
		3 – Return is a Notification of
		Change (NOC) and for information only.
ReturnReason	NACHA Return Reason Code.	String.
		Example: R02

Addenda	Description corresponding to the return reason code. In the case of a NOC return, Addenda will include the corrected value.	String.
ConvenienceFee	The amount of the convenience fee applied to the transaction.	Decimal.
PageId	If a Pageld is returned, there are additional pages of data in the result set. If a Pageld is not returned, the result set is complete. The Pageld can be unique and should not be stored for reuse.	String.
successful	True if the request was executed successfully. False if an error occurred.	Boolean.
message	In the case of an error, provides additional information on the reason for the error.	String.

#### **QUERY SETTLEMENTS:**

The Query Settlements function retrieves transaction details for transactions where the settlement date is within the specified date range. For RTP transactions, the settlement date is the date the transaction was approved. It is recommended to set the Start and End date request parameters to query only one day at a time.

**Note**: There are two options for querying settlements. Setting ExcludeReturnedItems to False will return all transactions with settlement date in the specified range, regardless of whether a return has been received for the item. Setting ExcludeReturnedItems to True will only retrieve transactions where the settlement date is in the specified range and a return has not been received from the bank at the time of the query.

**Warning**: Settlements are finalized during end of day processing. Querying the current day prior to end of day processing could cause settled transactions to be missed.

In the Production environment, results are paged with a maximum 1000 results returned per page. In the Staging environment, results are paged with a maximum 20 results returned per page.

# Query Settlements Request

Endpoint: api/v1/echeck/querysettlements

Parameter	Description	Format
Start	Required.	DateTime.
		mm-dd-yyyy hh:mm:ss
	Request transactions where the settlement	
	date is within the period beginning with	If not provided, time is
	this date.	defaulted to 00:00.
End	Required.	DateTime.
		mm-dd-yyyy hh:mm:ss
	Request transactions where the settlement	
	date is within the period ending with this	If not provided, time is
	date.	defaulted to 00:00.
		To query for a single day, set
		the start and end dates to the
		same month, day, year and set
		the end date time to 23:59.
		Alternately, set the end date
		to one day greater than the
		start date and use 00:00 for
		the start and end time.
ExcludeReturnedItems	True will retrieve only transactions that	Boolean.
	settled during the date range requested.	
	Transactions that were scheduled to settle	
	but received bank returns will not be	
	retrieved.	
	False will retrieve settled and returned	
	transactions where the transaction's	
	settlement date is within the date range	
	requested.	
PageId	Pass the value "PAGED" in PageId to get	String.
	the first page of data. Then pass the Pageld	
	value returned in the response to get the	
	next page of data.	
	If PageId is omitted from the request or not	
	populated, all result data will be returned	
	up to the maximum response size.	

# Query Settlements Response

Parameter	Description	Format
Settlements	Null if request is not successful.	
	Empty [] if no settlements were found in the	
	period.	
	Contains sets of transaction data for each	
	settled transaction in the period.	
AuthorizationId	Authorization code assigned by Payliance	Numeric string.
	when the transaction was submitted.	
MerchantId	Payliance Id for the merchant.	String.
SettleDate	Date the transaction settled.	DateTime.
UniqueTranId	UniqueTranId submitted in the original	String.
	transaction request.	
Routing	Customer's routing number submitted in the	Numeric string, 9 digits.
	original transaction request.	
AccountNumber	Last four digits of the customer's account	String. Includes asterisks and
	number submitted in the original transaction	the last 4 digits of the account
	request.	number.
CheckNumber	Check number submitted in the original	String.
	transaction request.	
Name	First Name and Last Name submitted in the	String.
	original transaction request.	
Amount	Amount submitted in the original transaction	Decimal.
	request.	
ConvenienceFee	The amount of the convenience fee applied	Decimal.
	to the transaction.	
PageId	If a PageId is returned, there are additional	String.
	pages of data in the result set. If a Pageld is	
	not returned, the result set is complete. The	
	PageId can be unique and should not be	
	stored for reuse.	
successful	Indicates whether the query request was	Boolean.
	submitted successfully.	
message	Provides a descriptive error message if	String.
	successful is false.	

# Reference

# **Standard Entry Class (SEC) Codes**

Code	Description
PPD	Prearranged Payment and Deposit Entry
CCD	Corporate Credit or Debit Entry
WEB	Internet-Initiated / Mobile Entry
TEL	Telephone-Initiated Entry
POP	Point-of-Purchase Entry
ARC	Accounts Receivable Entry
BOC	Back Office Conversion Entry
RCK	Re-presented Check Entry
ICL	Image Cash Letter
IC2	Remotely Created Check
RTP	Real Time Payment

# **RTP Network Decline Errors**

ValidationCode	Message
124	Account closed
125	Account invalid
126	Account blocked
127	Transaction not allowed on account
128	Deceased customer
129	Amount not approved
130	Duplicate
131	Missing or invalid data
132	Account suspended
133	Declined by network
134	Network error, not supported
135	Network error, status unknown
136	Network error, transaction failed
137	Network error, contact support

# **Prefunded Adjustment Type Values**

Adjustment Type Value	Description
TRANSACTIONS	The sum of validated transactions that reduce the prefunded account
	balance.
BANKWIRE	A bank wire received from the merchant adding funds to the
	prefunded account balance. When multiple bank wires were
	received, each will be listed individually.
MANUAL	Manual adjustments performed to the prefunded account balance.
	Manual adjustments will be listed individually.
VOIDS	The sum of voided transactions resulting in a credit to the prefunded
	account balance.

# **RTP Test Data**

**Routing**: Routing number must be in the RTP Participant list. Use the QueryInstitution API function to verify whether a routing number is eligible for RTP.

#### **Account Numbers:**

Account Number	RTP Result
100000000	Approved (1 – Validated)
111111112	125 – Account invalid
111111113	127 – Transaction not allowed on account
111111114	126 – Account blocked
111111115	124 – Account closed
111111117	129 – Amount not approved
111111120	137 – Network error, contact support
111111121	128 – Deceased customer