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HTML

• Overview

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IPN and PDT Variables

PayPal returns related variables for each kind of IPN or PDT message. Not all variables are returned for each type of transaction.

- IPN Transaction Types
- Transaction and Notification-Related Variables
- Buyer Information Variables
- Payment Information Variables
- Auction Variables
- Mass Pay Variables
- Recurring Payments Variables
- Subscription Variables
- Dispute Resolution Variables
- Pay Message Variables
- Preapproval Message Variables
- Adaptive Accounts IPN Messages
- PDT-Specific Variables

IPN and PDT variable names are case-sensitive. All constant values are lowercase, except those for payment_status, whose constant values have an initial capital letter.

Note:

Values posted by IPN are URL-encoded. For example, a colon in the value http://... is encoded as %3A in an IPN post, as in http%3A//...

IPN Transaction Types

Transaction Type (txn type)

Typically, your back-end or administrative processes will perform specific actions based on the kind of IPN message received. You can use the txn type variable in the message to trigger the kind of processing you want to perform.

Description

7F (= 3F)	F		
_	Credit card chargeback if the case_type variable contains chargeback		
adjustment	A dispute has been resolved and closed		
cart	Payment received for multiple items; source is Express Checkout or the PayPal Shopping Cart.		
express_checkout	Payment received for a single item; source is Express Checkout		

masspay Payment sent using MassPay

mp_signup Created a billing agreement

merch_pmt Monthly subscription paid for Website Payments Pro

new_case A new dispute was filed

recurring_payment Recurring payment received

recurring_payment_expired Recurring payment expired

recurring payment profile created Recurring payment profile created

recurring_payment_skipped Recurring payment skipped; it will be retried up to a total of 3 times, 5 days apart

send_money Payment received; source is the Send Money tab on the PayPal website

subscr_cancel Subscription canceled

subscr_eot Subscription expired

subscr failed Subscription signup failed

subscr_modify Subscription modified

subscr_payment Subscription payment received

subscr_signup Subscription started

virtual_terminal Payment received; source is Virtual Terminal

web_accept Payment received; source is a Buy Now, Donation, or Auction Smart Logos button

Transaction and Notification-Related Variables

Transaction and notification-related variables identify the merchant that is receiving a payment or other notification and transaction-specific information.

Variable Name Description

Email address or account ID of the payment recipient (that is, the merchant). Equivalent to the values of receiver_email (if payment is sent to primary account) and business set in the Website Payment HTML.

business Note:

The value of this variable is normalized to lowercase characters.

Length: 127 characters

charset Character set

custom		Custom value as passed by you, the merchant. These are pass-through variables that are never presented to you customer
		Length: 255 characters
	ipn_track_id	Internal; only for use by MTS and DTS
	notify_version	Message's version number
	parent_txn_id	In the case of a refund, reversal, or canceled reversal, this variable contains the txn_id of the original transaction, while txn_id contains a new ID for the new transaction.
		Length: 19 characters
	receipt_id	Unique ID generated during guest checkout (payment by credit card without logging in).
		Primary email address of the payment recipient (that is, the merchant). If the payment is sent to a non-primary email address on your PayPal account, the receiver_email is still your primary email.
	receiver_email	Note:
		The value of this variable is normalized to lowercase characters.
		Length: 127 characters
	receiver_id	Unique account ID of the payment recipient (i.e., the merchant). This is the same as the recipient's referral ID.
		Length: 13 characters
	resend	Whether this IPN message was resent (equals true); otherwise, this is the original message.
		ISO 3166 country code associated with the country of residence
	residence_country	Length: 2 characters
		Whether the message is a test message. It is one of the following values:
	test_ipn	
	• 1 – the message is directed to the Sandbox	
	txn_id	The merchant's original transaction identification number for the payment from the buyer, against which the case was registered.
	txn_type	The kind of transaction for which the IPN message was sent.
	verify_sign	Encrypted string used to validate the authenticity of the transaction

Buyer Information Variables

Buyer information identifies the buyer or initiator of a transaction by payer ID or email address. Additional contact or shipping information may be provided.

Variable Name	Description
---------------	-------------

Country of customer's address address_country Length: 64 characters City of customer's address $address_city$ Length: 40 characters ISO 3166 country code associated with customer's address address_country_code Length: 2 characters Name used with address (included when the customer provides a Gift Address) address_name Length: 128 characters State of customer's address $address_state$ Length: 40 characters Whether the customer provided a confirmed address. It is one of the following values: address_status • confirmed - Customer provided a confirmed address. • unconfirmed - Customer provided an unconfirmed address. Customer's street address. address street Length: 200 characters Zip code of customer's address. address_zip Length: 20 characters Customer's telephone number. contact_phone Length: 20 characters Customer's first name first name Length: 64 characters Customer's last name last_name Length: 64 characters Customer's company name, if customer is a business payer_business_name Length: 127 characters Customer's primary email address. Use this email to provide any credits. payer_email Length: 127 characters Unique customer ID. payer_id Length: 13 characters

Payment Information Variables

Payment information identifies the amount and status of a payment transaction, including fees.

Variable Name

Description

auth_amount	Authorization amount				
auth_exp	Authorization expiration date and time, in the following format: HH:MM:SS DD Mmm YY, YYYY PST				
	Length: 28 characters				
	Authorization identification number				
auth_id	Length: 19 characters				
auth_status	Status of authorization				
echeck_time_processed	The time an eCheck was processed; for example, when the status changes to Success or Completed. The format is as follows: hh:mm:ss MM DD, YYYY ZONE, e.g. 04:55:30 May 26, 2011 PDT.				
exchange_rate	Exchange rate used if a currency conversion occurred.				
	One or more filters that identify a triggering action associated with one of the following payment_status values: Pending, Completed, Denied, where x is a number starting with 1 that makes the IPN variable name unique; x is not the filter's ID number. The filters and their ID numbers are as follows:				
	• 1 – AVS No Match				
	• 2 – AVS Partial Match				
	• 3 – AVS Unavailable/Unsupported				
	• 4 – Card Security Code (CSC) Mismatch				
	• 5 – Maximum Transaction Amount				
	• 6 – Unconfirmed Address				
	• 7 – Country Monitor				
<pre>fraud_managment_pending_filters</pre>	• 8 – Large Order Number				
	• 9 - Billing/Shipping Address Mismatch				
	• 10 – Risky ZIP Code				
	• 11 - Suspected Freight Forwarder Check				
	• 12 – Total Purchase Price Minimum				
	• 13 – IP Address Velocity				
	• 14 – Risky Email Address Domain Check				
	• 15 – Risky Bank Identification Number (BIN) Check				
	• 16 – Risky IP Address Range				

Passthrough variable you can use to identify your Invoice Number for this purchase. If omitted, no variable is passed back. invoice Length: 127 characters Item name as passed by you, the merchant. Or, if not passed by you, as entered by your customer. If this is a shopping cart transaction, PayPal will append the number of the item item_name x(e.g., item name1, item name2, and so forth). Length: 127 characters Pass-through variable for you to track purchases. It will get passed back to you at the completion of the payment. If omitted, no variable will be passed back to you. If this is a shopping cart transaction, PayPal will append the number of the item (e.g., item number1, item numberx item number2, and so forth) Length: 127 characters • For payment IPN notifications, this is the currency of the payment. • For non-payment subscription IPN notifications (i.e., txn type= signup, cancel, mc currency failed, eot, or modify), this is the currency of the subscription. • For payment subscription IPN notifications, it is the currency of the payment (i.e., txn_type = subscr_payment) Transaction fee associated with the payment. mc_gross minus mc_fee equals the amount deposited into the receiver email account. Equivalent to payment fee for USD mc_fee payments. If this amount is negative, it signifies a refund or reversal, and either of those payment statuses can be for the full or partial amount of the original transaction fee. Full amount of the customer's payment, before transaction fee is subtracted. Equivalent to payment gross for USD payments. If this amount is negative, it signifies a refund or mc gross reversal, and either of those payment statuses can be for the full or partial amount of the original transaction. The amount is in the currency of mc currency, where x is the shopping cart detail item mc gross x number. The sum of mc_gross_x should total mc_gross . Total handling amount associated with the transaction. mc_handling Total shipping amount associated with the transaction. mc shipping This is the combined total of shipping1 and shipping2 Website Payments Standard variables, where x is the shopping cart detail item number. The shipping x variable is only mc_shippingx shown when the merchant applies a shipping amount for a specific item. Because profile shipping might apply, the sum of shipping x might not be equal to shipping. Memo as entered by your customer in PayPal Website Payments note field. memo Length: 255 characters If this is a PayPal Shopping Cart transaction, number of items in cart. num_cart_items

Option 1 name as requested by you. PayPai appends the number of the item where xrepresents the number of the shopping cart detail item (e.g., option name1, option_name1 option_name2). Length: 64 characters Option 2 name as requested by you. PayPal appends the number of the item where xrepresents the number of the shopping cart detail item (e.g., option name2, option_name2 option_name2). Length: 64 characters Option 1 choice as entered by your customer. PayPal appends the number of the item where x represents the number of the shopping cart option_selection1 detail item (e.g., option selection1, option selection2). Length: 200 characters Option 2 choice as entered by your customer. PayPal appends the number of the item where x represents the number of the shopping cart option_selection2 detail item (e.g., option_selection1, option_selection2). Length: 200 characters Whether the customer has a verified PayPal account. payer status • verified – Customer has a verified PayPal account. • unverified - Customer has an unverified PayPal account. Time/Date stamp generated by PayPal, in the following format: HH:MM:SS DD Mmm YY, YYYY PST payment_date Length: 28 characters $USD\ transaction\ fee\ associated\ with\ the\ payment.\ {\tt payment_gross}\ minus\ {\tt payment_fee}$ equals the amount deposited into the receiver email account. Is empty for non-USD payments. If this amount is negative, it signifies a refund or reversal, and either of those payment statuses can be for the full or partial amount of the original transaction fee. payment fee Note: This is a deprecated field. Use mc_fee instead. If the payment is USD, then the value is the same as that for mc fee x, where x is the record number; if the currency is not USD, then this is an empty string. payment_fee_x Note: This is a deprecated field. Use mc_fee_x instead. Full USD amount of the customer's payment, before transaction fee is subtracted. Will be empty for non-USD payments. This is a legacy field replaced by mc_gross. If this amount is payment_gross negative, it signifies a refund or reversal, and either of those payment statuses can be for the full or partial amount of the original transaction. If the payment is USD, then the value for this is the same as that for the mc gross x, where x is the record number the mass pay item. If the currency is not USD, this is an empty string. payment_gross_x

Mata.

note.

This is a deprecated field. Use mc_gross_ x instead.

The status of the payment:

Canceled_Reversal: A reversal has been canceled. For example, you won a dispute with the customer, and the funds for the transaction that was reversed have been returned to you.

Completed: The payment has been completed, and the funds have been added successfully to your account balance.

Created: A German ELV payment is made using Express Checkout.

Denied: You denied the payment. This happens only if the payment was previously pending because of possible reasons described for the pending_reason variable or the Fraud_Management_Filters_x variable.

Expired: This authorization has expired and cannot be captured.

Failed: The payment has failed. This happens only if the payment was made from your customer's bank account.

Pending: The payment is pending. See pending_reason for more information.

Refunded: You refunded the payment.

Reversed: A payment was reversed due to a chargeback or other type of reversal. The funds have been removed from your account balance and returned to the buyer. The reason for the reversal is specified in the ReasonCode element.

Processed: A payment has been accepted.

voided: This authorization has been voided.

echeck: This payment was funded with an eCheck.

instant: This payment was funded with PayPal balance, credit card, or Instant Transfer.

This variable is set only if payment_status = Pending.

address: The payment is pending because your customer did not include a confirmed shipping address and your Payment Receiving Preferences is set yo allow you to manually accept or deny each of these payments. To change your preference, go to the Preferences section of your Profile.

authorization: You set the payment action to Authorization and have not yet captured funds.

echeck: The payment is pending because it was made by an eCheck that has not yet cleared.

intl: The payment is pending because you hold a non-U.S. account and do not have a withdrawal mechanism. You must manually accept or deny this payment from your Account Overview.

multi-currency: You do not have a balance in the currency sent, and you do not have your Payment Receiving Preferences set to automatically convert and accept this payment. You must manually accept or deny this payment.

order: You set the payment action to Order and have not yet captured funds.

paymentreview: The payment is pending while it is being reviewed by PayPal for risk.

unilateral: The payment is pending because it was made to an email address that is not yet registered or confirmed.

upgrade: The payment is pending because it was made via credit card and you must upgrade your account to Business or Premier status in order to receive the funds. upgrade

payment status

payment_type

pending_reason

can also mean that you have reached the menthly limit for transactions on your account

verify: The payment is pending because you are not yet verified. You must verify your account before you can accept this payment.

other: The payment is pending for a reason other than those listed above. For more information, contact PayPal Customer Service.

 ${\tt Expanded Seller Protection:} \ Seller \ is \ protected \ by \ Expanded \ seller \ protection$

Seller Protection: Seller is protected by PayPal's Seller Protection Policy

None: Seller is not protected under Expanded seller protection nor the Seller Protection Policy

Quantity as entered by your customer or as passed by you, the merchant. If this is a shopping cart transaction, PayPal appends the number of the item (e.g. quantity1, quantity2).

This variable is set if payment_status = Reversed, Refunded, or Canceled_Reversal.

adjustment reversal: Reversal of an adjustment

buyer-complaint: A reversal has occurred on this transaction due to a complaint about the transaction from your customer.

chargeback: A reversal has occurred on this transaction due to a chargeback by your customer.

 $\verb|chargeback_reimbursement|: Reimbursement| for a chargeback|$

 $\verb|chargeback_settlement| : Settlement of a chargeback|$

guarantee: A reversal has occurred on this transaction due to your customer triggering a money-back guarantee.

other: Non-specified reason.

refund: A reversal has occurred on this transaction because you have given the customer a refund.

Note:

Additional codes may be returned.

Remaining amount that can be captured with Authorization and Capture

Amount that is deposited into the account's primary balance after a currency conversion from automatic conversion (through your Payment Receiving Preferences) or manual conversion (through manually accepting a payment).

Currency of settle_amount.

Shipping charges associated with this transaction.

Format: unsigned, no currency symbol, two decimal places.

The name of a shipping method from the Shipping Calculations section of the merchant's account profile. The buyer selected the named shipping method for this transaction.

Amount of tax charged on payment. PayPal appends the number of the item (e.g., $item_name1$, $item_name2$). The tax x variable is included only if there was a specific tax amount applied to a particular shopping cart item. Because total tax may apply to other

items in the cart the sum of + av r might not total to + av

protection eligibility

quantity

reason code

remaining settle

settle_amount

settle_currency

shipping

shipping_method

tax

Auction Variables

Auction information identifies the auction for which a payment is made and additional information about the auction.

Variable Name	Description
auction_buyer_id	The customer's auction ID. Length: 64 characters
auction_closing_date	The auction's close date, in the following format: HH:MM:SS DD Mmm YY, YYYY PST Length: 28 characters
auction_multi_item	The number of items purchased in multi-item auction payments. It allows you to count the mc_gross or payment_gross for the first IPN you receive from a multi-item auction (auction_multi_item), since each item from the auction will generate an Instant Payment Notification showing the amount for the entire auction.
for_auction	This is an auction payment—payments made using Pay for eBay Items or Smart Logos—as well as Send Money/Money Request payments with the type eBay items or Auction Goods (non-eBay).

Mass Pay Variables

Mass pay information identifies the amounts and status of transactions related to mass payments, including fees.

1 0	
Variable Name	Description
masspay_txn_id_:	For Mass Payments, a unique transaction ID generated by the PayPal system, where x is the record number of the mass pay item
	Length: 19 characters
mc_currency_x	For Mass Payments, the currency of the amount and fee, where x is the record number the mass pay item
mc_fee_x	For Mass Payments, the transaction fee associated with the payment, where x is the record number the mass pay item
mc_gross_x	The gross amount for the amount, where x is the record number the mass pay item
mc_handlingx	The x is the shopping cart detail item number. The <code>handling_cart</code> cart-wide Website Payments variable is also included in the <code>mc_handling</code> variable; for this reason, the sum of <code>mc_handling</code> x might not be equal to <code>mc_handling</code>
payment date	For Mass Payments, the first IPN is the date/time when the record set is processed and the second IPN is the date/time when all payments are completed/returned. Format: HH:MM:SS DD Mmm YY, YYYY PST
payment_date	Length: 28 characters
	completed: For Mass Payments, this means that all of your payments have been claimed, or after a period of 30 days unclaimed payments have been returned to you

uays, unciannea payments have been returned to you.

payment_status

Denied: For Mass Payments, this means that your funds were not sent and the Mass Payment was not initiated. This may have been caused by lack of funds.

Processed: Your Mass Payment has been processed and all payments have been sent.

This variable is only set if status = Failed.

1001: Invalid UserID.

reason_code

1003: Country of Residence check failure

1004: Country of Funding Source check failure

For Mass Payments, the primary email address of the payment recipient, where x is the record number of the mass receiver_email_x pay item.

Length: 127 characters

For Mass Payments, the status of the payment, where x is the record number

Completed: The payment has been processed, regardless of whether this was originally a unilateral payment

Failed: The payment failed because of insufficient PayPal balance.

status_x

Returned: Payment has been returned after 30 days.

Reversed: This is for unilateral payments that were not claimed after 30 days and have been returned to the sender. Or the funds have been returned because the Receiver's account was locked.

Unclaimed: This is for unilateral payments that are unclaimed.

unique_id_x

For Mass Payments, the unique ID from input, where x is the record number. This allows the merchant to cross-reference the payment

Length: 13 characters

Recurring Payments Variables

Recurring payments information identifies the amounts and status associated with recurring payments transactions.

Variable Name Description

amount_per_cycle Amount of recurring payment per cycle

initial_payment_amount Initial payment amount for recurring payments

next_payment_date Next payment date for a recurring payment

outstanding_balance Outstanding balance for recurring payments

payment_cycle Payment cycle for recurring payments

kind of period for a recurring payment

product_name Product_name associated with a recurring payment

product_name	rioduct name associated with a recurring payment
product_type	Product name associated with a recurring payment
profile_status	Profile status for a recurring payment
recurring_payment_id	Recurring payment ID
rp_invoice_id	The merchant's own unique reference or invoice number, which can be used to uniquely identify a profile.
	Length: 127 single-byte alphanumeric characters
time_created	When a recurring payment was created

Table 1. Summary of recurring payment variables

mc_currency

Variables	Profile created message	Recurring payment message
Basic Information		
business		X
receiver_email $f X$		X
receiver_id		X
Transaction Information		
payment_status		X
payment_type		X
payment_date		X
txn_id		X
$\verb initial_payment_status X$		
initail_payment_txn_id		X
txn_type recus	rring_payment_profile_create	drecurring_payment
Currency and Exchange		
mc_gross		X
mc_fee		X

X

payment_gross		X
currency_code	X	X
payment_fee		X
Buyer Information		
first_name	X	X
last_name	X	X
address_name		X
address_street		X
address_city		X
address_state		X
address_zip		X
address_country		X
payer_email	X	X
payer_id	X	X
payer_status	X	X
residence_country	X	X
address_country_code		X
address_status		X
Recurring Payment		
recurring_payment_id	X	X
rp_invoice_id	X	X
product_name	X	X
product_type	X	X
period_type	X	X

payment_cycle	X	X
outstanding_balance	X	X
amount_per_cycle	X	X
initial_payment_amoun	t X	X
profile_status	X	X
amount	X	X
time_created	X	X
next_payment_date	X	X
Other Information		
notify_version	X	X
charset	X	X

Subscription Variables

Variable Name

Subscription information identifies the amounts and parameters associated with subscription transactions.

	•
amount1	Amount of payment for trial period 1 for USD payments; otherwise blank (optional).
amount2	Amount of payment for trial period 2 for USD payments; otherwise blank (optional).
amount3	Amount of payment for regular subscription period for USD payments; otherwise blank.
mc_amount1	Amount of payment for trial period 1, regardless of currency (optional).
mc_amount2	Amount of payment for trial period 2, regardless of currency (optional).
mc_amount3	Amount of payment for regular subscription period, regardless of currency.
password	(optional) Password generated by PayPal and given to subscriber to access the subscription (password will be encrypted).
	Length: 24 characters
period1	(optional) Trial subscription interval in days, weeks, months, years (example: a 4 day interval is "period1: 4 D").
period2	(optional) Trial subscription interval in days, weeks, months, or years.
period3	Regular subscription interval in days, weeks, months, or years.

Description

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reattempt	Indicates whether reattempts should occur upon payment failures (1 is yes, blank is no).
recur_times	The number of payment installments that will occur at the regular rate.
recurring	Indicates whether regular rate recurs (1 is yes, blank is no).
retry_at	Date PayPal will retry a failed subscription payment.
	Start date or cancellation date depending on whether transaction is subscr_signup or subscr_cancel.
subscr_date	Time/Date stamp generated by PayPal, in the following format: HH:MM:SS DD Mmm YY, YYYY PST
	Date when the subscription modification will be effective (only for txn_type = subscr_modify).
subscr_effective	Time/Date stamp generated by PayPal, in the following format: HH:MM:SS DD Mmm YY, YYYY PST
aubaar id	ID generated by PayPal for the subscriber.
subscr_id	Length: 19 characters
username	(optional) Username generated by PayPal and given to subscriber to access the subscription.
username	Length: 64 characters

Table 2. Summary of subscription variables

Variable	Signup	Cancel	Modify	USD Payment	Multi- CurrencyPayment	Re-fund	Failed	ЕОТ
Basic Information								
business	X	X	X	X	X	2	X	X
receiver_email	X	X	X	X	X	2	X	X
receiver_id				X	X			
item_name	X	X	X	X	X	2	X	X
item_number	X	X	X	X	X	2	X	X
Advanced and Custom Information								
invoice	X	X	X	X	X	2	X	X
custom	X	X	X	X	X	2	X	X
option_name1	X	X	X	X	X	2	X	X

option_selection1	X	X	X	X	X		X	X
option_name2	X	X	X	X	X		X	X
option_selection2	X	X	X	X	X		X	X
Transaction Information								
payment_status				X	X	X		
pending_reason				X	X			
reason_code				X	X			
payment_date				X	X			
txn_id				X	X			
parent_txn_id				X	X			
txn_type	subscr_ signup	subscr_ cancel	subscr_ modify	subscr_paymer	nt	subscr_ failed	subscr_ed	ot
Currency and Exchange information								
mc_gross				X	X			
mc_fee				X	X			
mc_currency	X	X	X	X	X		X	X
settle_amount				X	X			
exchange_rate				X	X			
payment_gross				X			X	X
payment_fee				X				
Buyer Information								
first_name	X	X	X	X	X		X	X
last_name	X	X	X	X	X		X	X
payer_business_name	X	X	X	X	X		X	
address_name	X	X	X	X	X		X	

-							
address_street	X	X	X	X	X	X	
address_city	X	X	X	X	X	X	
address_state	X	X	X	X	X	X	
address_zip	X	X	X	X	X	X	
address_ country	X	X	X	X	X	X	
payer_email	X	X	X	X	X	X	X
payer_id	X	X	X	X	X	X	X
payer_status	X	X	X	X	X	X	X
payment_type				X	X		
Subscription Information	n						

Su

subscr_date	X	X	X
subscr_ effective			X
period1	X	X	X
period2	X	X	X
period3	X	X	X
amount1	X	X	X
amount2	X	X	X
amount3	X	X	X
mc_amount1	X	X	X
mc_amount2	X	X	X
recurring	X	X	X
reattempt	X	X	X
retry at			

X retry_at

 $X \qquad X \qquad X$ recur_times

username	X	X	X	X	X	X	X
password	X	X	X	X	X	X	X
subscr id	X	X	X	X	X	X	X

Dispute Resolution Variables

Dispute resolution information identifies the case ID and status associated with a dispute.

Variable Name Description

case_creation_date Date and time case was registered, in the following format: HH:MM:SS DD Mmm YY, YYYY PST

Case identification number.

case_id

Format: PP-nnn-nnn-nnn where n is any numeric character.

• chargeback: A buyer has filed a chargeback with his credit card company, which has notified PayPal of the reason for the chargeback.

case type

- complaint: A buyer has logged a complaint through the PayPal Resolution Center.
- dispute: A buyer and seller post communications to one another through the Resolution Center to try to work out issues without intervention by PayPal.

Reason for the case.

Values for case_type set to complaint:

- non receipt: Buyer claims that he did not receive goods or service.
- not_as_described: Buyer claims that the goods or service received differ from merchant's description of the goods or service.

Values for case_type set to chargeback:

reason_code

- unauthorized
- adjustment reimburse: A case that has been resolved and close requires a reimbursement.
- non_receipt: Buyer claims that he did not receive goods or service.
- duplicate: Buyer claims that a possible duplicate payment was made to the merchant.
- merchandise: Buyer claims that the received merchandise is unsatisfactory, defective, or damaged.
- special: Some other reason. Usually, special indicates a credit card processing error for which the merchant is not responsible and for which no debit to the merchant will result. PayPal must review the documentation from the credit card company to determine the nature of the dispute and possibly contact the merchant to resolve it.

Pay Message Variables

PayPal generates an IPN message that contains information about the pay request or payment in response to the Adaptive Payments

Variable

	The type of transaction. Possible values are:
	• Adaptive Payment PAY
transaction_type	This notification occurs when is a payment is made due to a PayRequest. The variables for the Adaptive Payment Pay notification are similar to the PaymentDetailsResponse fields.
	• Adjustment
	This can be for a chargeback, reversal, or refund; check the reason_code to see which it is.
	The status of the payment. Possible values are:
	• CREATED – The payment request was received; funds will be transferred once the payment is approved
	• COMPLETED – The payment was successful
status	 INCOMPLETE – Some transfers succeeded and some failed for a parallel payment or, for a delayed chained payment, secondary receivers have not been paid
	• ERROR – The payment failed and all attempted transfers failed or all completed transfers were successfully reversed
	• REVERSALERROR – One or more transfers failed when attempting to reverse a payment
	• PROCESSING – The payment is in progress
	• PENDING – The payment is awaiting processing
sender_email	Sender's email address.
	Whether the Pay API is used with or without the SetPaymentOptions and ExecutePayment API operations. Possible values are:
action_type	\bullet PAY — If you are not using the <code>SetPaymentOptions</code> and <code>ExecutePayment</code> API operations
	\bullet CREATE — If you are using the <code>SetPaymentOptions</code> and <code>ExecutePayment</code> API operations
payment_request_date	The date on which the payment request was initiated.
	Whether the payment request specified to reverse parallel payments if an error occurs. Possible values are:
reverse_all_parallel_payments_on_erro	or

• true – Each parallel payment is reversed if an error occurs

• false - Only incomplete payments are reversed (default)

Description

The transaction ID, where [n] is a number from 0 to 5. For simple, single receiver payments, this number will be 0. Numbers larger than 0 indicate the payment to a transaction[n].id particular receiver in chained and parallel payments. The transaction status, where [n] is a number from 0 to 5. For simple single-receiver payments, this number will be 0. Numbers larger than 0 indicate the payment to a particular receiver in chained and parallel payments. Possible values are: transaction[n].status • Completed • Pending • Refunded The transaction ID for the sender, where [n] is a number from 0 to 5. For simple, single receiver payments, this number will be 0. Numbers larger than 0 indicate the transaction[n].id_for_sender payment to a particular receiver in chained and parallel payments. The transaction status, where [n] is a number from 0 to 5. For simple single-receiver payments, this number will be 0. Numbers larger than 0 indicate the payment to a particular receiver in chained and parallel payments. Possible values are: • COMPLETED - The sender's transaction has completed • PENDING - The transaction is awaiting further processing • CREATED - The payment request was received; funds will be transferred once ${\tt transaction[n].status_for _sender_txn}$ approval is received • PARTIALLY REFUNDED- Transaction was partially refunded • DENIED - The transaction was rejected by the receiver • PROCESSING - The transaction is in progress • REVERSED - The payment was returned to the sender • REFUNDED - The payment was refunded • FAILED - The payment failed The identification number for the refund transaction[n].refund id

transaction[n].refund_amount The amount that was refunded.

transaction[n].refund_account_charged The email address of the debit account of the refund.

transaction[n].receiver The receiver's email address for the transaction

transaction[n].invoiceId The invoice number for this transaction

The payment amount of the transaction

transaction[n].amount

Whether there is a primary receiver for this transaction, which indicates whether the transaction is a chained payment.

Possible values are:

transaction[n].is_primary_receiver

- true There is a primary receiver (chained payment)
- false There is no primary receiver (simple or parallel payment)

return url

The URL to which the sender's browser is redirected after approving a payment on paypal.com. Use the pay key to identify the payment as follows: payKey=\${payKey}}.

cancel_url

The URL to which the sender's browser is redirected if the sender cancels the approval for a payment on paypal.com. Use the pay key to identify the payment as follows: payKey=\${payKey}.

ipn_notification_url

The URL to which all IPN messages for this payment are sent.

pay_key

The pay key that identifies this payment. This is a token that is assigned by the Pay API after a PayRequest message is received and can be used in other Adaptive Payments APIs as well as the cancelur and returnur to identify this payment. The pay key is valid for 3 hours.

memo

A note associated with the payment.

The payer of PayPal fees. Possible values are:

fees_payer

- SENDER Sender pays all fees (for personal, implicit simple/parallel payments; do not use for chained or unilateral payments)
- PRIMARYRECEIVER Primary receiver pays all fees (chained payments only)
- EACHRECEIVER Each receiver pays their own fee (default, personal and unilateral payments)
- SECONDARYONLY Secondary receivers pay all fees (use only for chained payments with one secondary receiver)

trackingId

The tracking ID that was specified for this payment in the PaymentDetailsRequest message.

preapproval_key

The preapproval key returned after a PreapprovalRequest, or the preapproval key that identifies the preapproval key sent with a PayRequest.

Whether this transaction is a chargeback, partial, or reversal. Possible values are:

reason_code

- Chargeback Settlement Transaction is a chargeback
- $\bullet \ \, \hbox{Admin reversal--} Transaction \ was \ reversed \ by \ PayPal \ administrators$
- Refund Transaction was partially or fully refunded

Preapproval Message Variables

PayPal generates an IPN message that contains information about a preapproval in response to the Adaptive Payments Preapproval

currencyCode

Variable Description The type of transaction. For a preapproval, this variable returns Adaptive Payment Preapproval. transaction_type Note: If this variable is set to Adaptive Payment Pay or Adjustment, refer to the Pay Message Variable section. The preapproval key returned after a PreapprovalRequest. preapproval key Whether the preapproval request was approved. Possible values are: approved • true - The preapproval was approved • false - The preapproval was denied The URL to which the sender's browser is redirected if the sender decides to cancel the cancel_url preapproval as requested. Use the preapproval key to identify the payment as follows: preapprovalKey=\${preapprovalKey} The current number of payments made for this preapproval. current_number_of_payments $\verb|current_total_amount_of_all_payments| The current total of payments| made for this preapproval.$ The current number of attempts this period for this preapproval. current_period_attempts The currency code. Possible values are: • Australian Dollar - AUD • Brazilian Real - BRL Note: The Real is supported as a payment currency and currency balance only for Brazilian PayPal accounts. • Canadian Dollar - CAD • Czech Koruna - CZK • Danish Krone - DKK • Euro - Eur • Hong Kong Dollar – нкр • Hungarian Forint - HUF • Israeli New Sheqel - ILS • Japanese Yen − JPY

• Malaysian Ringgit - MYR

Note:

The Ringgit is supported as a payment currency and currency balance only for Malaysian PayPal accounts.

- Mexican Peso MXN
- Norwegian Krone NOK
- New Zealand Dollar NZD
- Philippine Peso PHP
- Polish Zloty PLN
- Pound Sterling GBP
- Singapore Dollar SGD
- Swedish Krona SEK
- Swiss Franc CHF
- Taiwan New Dollar TWD
- Thai Baht THB
- Turkish Lira TRY
- U.S. Dollar USD

The day of the month on which a monthly payment is to be made. A number between 1 and 31 indicates the day of the month. A value of 0 indicates that the payment can be made on any day.

The day of the week that a weekly payment is to be made. Possible values are:

- NO_DAY_SPECIFIED
- SUNDAY
- MONDAY
- TUESDAY
- WEDNESDAY
- THURSDAY
- FRIDAY
- SATURDAY

First date for which the preapproval is valid.

Last date for which the preapproval is valid. Time is currently not supported.

The preapproved maximum total amount of all payments.

The preapproved maximum amount of all payments.

The maximum number of payments that is preapproved.

The payment period.

Possible values are:

date_of_month

day_of_week

starting_date

ending_date

max_amount_per_payment

max_total_amount_of_all_payments

max_number_of_payments

NO_PERIOD_SPECIFIEDDAILYpayment_periodWEEKLYBIWEEKLY

• SEMIMONTHLY

• MONTHLY

• ANNUALLY

Whether a personal identification number (PIN) is required. It is one of the following values:

pin_type

- NOT_REQUIRED A PIN is not required
- REQUIRED A PIN is required

sender_email

The sender's email address.

Adaptive Accounts IPN Messages

PayPal sends an IPN message whenever a PayPal account is created using the CreateAccount API operation.

Field	Description
notify_version	Message's version number
first_name	Account holder's first name
last_name	Account holder's last name
verify_sign	Encrypted string used to validate the authenticity of the transaction
charset	Character set
account_key	Account key returned by the CreateAccount API operation
confirmation_code	e Confirmation code
	The kind of event:
event_type	• ACCOUNT_CONFIRMED indicates that the account holder has set a password and the account has been created.
	 LOGIN_CONFIRMED indicates that the account holder logged into the account.

Example IPN message in response to CreateAccount request

Example IPN message in response to account holder setting the password

first_name=Someone&account_key=AA-6N5043354R131103K¬ify_version=UNVERSIONED&charset=windows-1252&email_a

This message indicates that the account setup is complete.

Example IPN message in response to account login

first name=Someone&account key=AA-6N5043354R131103K¬ify version=UNVERSIONED&charset=windows-1252&email a

PDT-Specific Variables

PDT variables have the same names as IPN variables. Some variables, however, apply only to PDT.

VariableDescriptionamtAmount of the transactionccCurrency codecmCustom messagesigsttxTransaction status

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