

VERIFONE E-COMMERCE

Integration Guide

Appendix

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1 Introduction

This document is an appendix of the documents Verifone E-commerce Integration Guide - Hosted Pages and Verifone E-commerce Integration Guide – Server to server. It contains more detailed information of form parameters and possible response codes that are sent and received from Verifone's E-commerce system.

2 Form Parameters

This section describes the all available form parameters that can be sent or received from Verifone's payment system.

2.1 Payment Token

Parameter Name

s-f-32-32_payment-token

Format

String with 32 characters.

Description

SHA-256 hash of combination of merchant agreement code, order number and payment timestamp: SHA-256 s-f-1-36_merchant-agreement-code + ';' + s-f-1-36_order-number + ';' + t-f-14-19_payment-timestamp) converted to upper case hexadecimal string and truncated to 32 character string.

Example

FA12ADD294DG39499

2.2 Locale

Parameter Name

locale-f-2-5_payment-locale

Format

String with length of 2-5 characters.

Description

The language locale used by buyer. Supported locales are: fi_FI, sv_SE, no_NO and en_GB.

Example

sv_SE

2.3 Payment Timestamp

Parameter Name

t-f-14-19_payment-timestamp

Format

yyyy-MM-dd HH:mm:ss

Description

UTC timestamp defining the payment start time from web shop point of view. If payment is retried then payment timestamp have to differ from first payment for same order.

Example

2012-04-21 21:50:01

2.4 Merchant Agreement Code

Parameter Name

s-f-1-36_merchant-agreement-code

Format

String with length of 1-36 characters.

Description

Textual code of the merchant agreement.

Example

023423423345

2.5 Order Number

Parameter Name

s-f-1-36_order-number

Format

String with length of 1-36 characters.

Description

Textual order number assigned by shop system. Valid characters are a-z, A-Z, 0-9 and minus sign.

Example

123

2.6 Order Timestamp

Parameter Name

t-f-14-19_order-timestamp

Format

yyyy-MM-dd HH:mm:ss

Description

UTC timestamp defining the orders time from web shop point of view.

Example

2010-01-01 01:01:32

2.7 Order Note

Parameter Name

s-t-1-36_order-note

Format

String with length of 0 or 1-36 characters.

Description

Custom parameter reserved for shop system to use.

Example

Example note.

2.8 Order Currency Code

Parameter Name

i-f-1-3_order-currency-code

Format

String with length of 1-3 numeric characters.

Description

Numeric ISO 4217 currency code.

Example

978

2.9 Refund Currency Code

Parameter Name

i-f-1-3_refund-currency-code

Format

String with length of 1-3 numeric characters.

Description

Numeric ISO 4217 currency code.

Example

752

2.10 Refund Amount

Parameter Name

I-f-1-20_refund-amount

Format

integer value formatted as a string with 1-20 numeric characters.

Description

Amount to refund. Example value corresponds to 1 EUR.

Example

100

2.11 Order Gross Amount

Parameter Name

I-f-1-20_order-gross-amount

Format

Long integer value formatted as string with 1-20 numeric characters.

Description

Total amount including taxes and discount with two decimal precision. Example value corresponds to 1 EUR.

Example

100

2.12 Order Net Amount

Parameter Name

l-f-1-20_order-net-amount

Format

Long integer value formatted as string with 1-20 numeric characters.

Description

Total amount with two decimal precision. Calculated by summing over basket item net amounts. Example value corresponds to 1 EUR.

Example

100

2.13 Order VAT Amount

Parameter Name

l-f-1-20_order-vat-amount

Format

Long integer value formatted as string with 1-20 numeric characters.

Description

Value added tax amount with two decimal precision. Example value corresponds to 1 EUR.

Example

100

2.14 Order VAT Percentage

Parameter Name

i-t-1-4_order-vat-percentage

Format

Integer formatted as string with 0, 1-4 numeric characters

Description

Value added tax with two decimal precision. Example value corresponds to 22,5%. It can be empty if multiple VAT percentages are used in order.

Example

2250

2.15 Buyer First Name

Parameter Name

s-f-1-30_buyer-first-name

Format

String with length of 1-30 characters.

Description

First name of the buyer.

Example

John

2.16 Buyer Last Name

Parameter Name

s-f-1-30_buyer-last-name

Format

String with length of 1-30 characters.

Description

Last name of the buyer.

Example

Smith

2.17 Buyer Phone Number

Parameter Name

s-t-1-30_buyer-phone-number

Format

String with length of 0, 1-30 characters.

Description

Phone number of the buyer.

Example

+358 402342342

2.18 Buyer Email Address

Parameter Name

s-f-1-100_buyer-email-address

Format

String with length of 1-100 characters.

Description

The buyer's email address.

Example

john.smith@gmail.com

2.19 Buyer External Identifier

Parameter Name

s-t-1-255_buyer-external-id

Format

String with length of 1-255 characters.

Description

Identifier of the buyer assigned by web shop. To be used only in such cases where a unique buyer identifier defined by web shop system is required.

Example

213123123

2.20 Delivery Address Line #1

Parameter Name

s-t-1-30_delivery-address-line-one

Format

String with length of 0, 1-30 characters.

Description

Line one of the delivery address.

Example

Street 31

2.21 Delivery Address Line #2

Parameter Name

s-t-1-30_delivery-address-line-two

Format

String with length of 0, 1-30 characters.

Description

Line two of the delivery address.

Example

Apartment 2

2.22 Delivery Address Line #3

Parameter Name

s-t-1-30_delivery-address-line-three

Format

String with length of 0, 1-30 characters.

Description

Line three of the delivery address.

Example

Room 3

2.23 Delivery Address City

Parameter Name

s-t-1-30_delivery-address-city

Format

String with length of 0, 1-30 characters.

Description

City of the delivery address.

Example

Stockholm

2.24 Delivery Address Postal Code

Parameter Name

s-t-1-30_delivery-address-postal-code

Format

String with length of 0, 1-30 characters.

Description

Postal code of the delivery address.

Example

00270

2.25 Delivery Address Country Code

Parameter Name

i-t-1-3_delivery-address-country-code

Format

String with length of 0, 1-3 characters.

Description

Numeric ISO 3166 country code of the delivery address.

Example

246

2.26 Payment Method Code

Parameter Name

s-t-1-30_payment-method-code

Format

String with length of 1-30 characters.

Description

Code identifying the chosen payment method or empty string if payment method is not chosen. Value can be found in Appendix ix (please see the end of this document)

Example

visa

2.27 Saved Payment Method ID

Parameter Name

i-t-1-20_saved-payment-method-id

Format

Long integer value formatted as string with 1-20 numeric characters.

Description

ID of the saved payment method.

Example

242

2.28 Style Code

Parameter Name

s-t-1-30_style-code

Format

String with length of 1-30 characters.

Description

Code identifying the style sheet used in payment page or empty string if default style sheet is used.

Example

my-style

2.29 Deferred Payment

Parameter Name

i-t-1-1_deferred-payment

Format

Integer with value 0 or 1.

Description

Integer defining that payment is deferred payment.

0) Not deferred payment.

1) Deferred payment.

Example

1

2.30 Encrypted Card Details

Parameter Name

s-f-256-512_encrypted-card-details

Format

String with length of 256-512 characters.

Description

<PAN>=<MMyyyy> padded with PKCS #1 padding and RSA encrypted and converted to upper case hexadecimal string.

Example

FA12...FF

2.31 Web Terminal Payment

Parameter Name

i-t-1-1_web-terminal-payment

Format

Integer with value 0 or 1

Description

If set to 1 instructs the payment process to skip payer identification and make a MOTO transaction.

0) Normal payment.

1) Web terminal (MOTO) payment (e.g. order taken in by merchant help desk/phone sales).

Example

0

2.32 Recurring Payment

Parameter Name

i-t-1-1_recurring-payment

Format

Integer with value 0 or 1.

Description

Integer defining that payment is recurring payment. If set to 1 then parameters s-t-1-30_recurring-payment-subscription-name, s-t-1-30_recurring-payment-subscription-code and i-t-1-3_recurring-payment-subscription-expected-period are also mandatory. The following recurring payments are initiated via Server Interface.

0) Not recurring payment.

1) Recurring subscription should be created When this is set to 1, only recurring subscription is created. If a recurring payment should be processed after subscription creation, it must be processed via Server Interface as Payment Interface creates only the subscription.

Example

1

2.33 Recurring Payment Subscription Name

Parameter Name

s-t-1-30_recurring-payment-subscription-name

Format

String with length 1-30 characters.

Description

Human-readable name of the subscription that the payer can identify.

Example

Merchant Magazine Order

2.34 Recurring Payment Subscription Code

Parameter Name

s-t-1-30_recurring-payment-subscription-code

Format

String with length 1-30 characters.

Description

Subscription code that should be unique in the merchant's system.

Example

MMOSubs123

2.35 Recurring Payment Subscription Period

Parameter Name

i-t-1-3_recurring-payment-subscription-expected-period

Format

Integer with value of 7-999

Description

Number of days expected between recurring payments. Safeguards payer from being billed multiple times in short period. The limits are to be agreed with Verifone.

Example

7

2.36 Recurring Payment Subscription End

Parameter Name

t-t-14-19_recurring-payment-subscription-end

Format

yyyy-MM-dd HH:mm:ss

Description

Date time when the subscription ends (no payments can be done after this). Can be left empty, which means that the recurring payment is valid and can be used until the payer's credit card expiry date. If payer's credit card expires, the payments will fail so submitting larger value than that has the same effect than leaving this empty.

Example

2012-06-13 14:38:11

2.37 Save Payment Method

Parameter Name

i-t-1-1_save-payment-method

Format

Integer with value 0 or 1 or 2 or 3.

Description

0) **Normal payment.** If user chooses credit card, then s/he is given save payment yes/no radio button as part of card information page. In case of successful payment with radio button set as yes, the payment is saved into the system.

1) **Save payment method and pay.** Card information page will not contain "save payment" radio button. When payment is successful, the credit card is saved into the system if payment method is not given, only cards are offered to user. No texts are changed.

NOTE: Payment Method Code can be supplied, but only credit card payments are accepted.

2) **Save payment only.** UI texts will be changed, so that user is communicated that her credit card will be saved, but it will not be charged. Pay buttons will contain "Save card" and so on. Payment details page and shopping baskets are not shown. Card information page will not contain save payment radio button. The card will be authorized with the given sum, but the authorized funds will not be captured. The funds used in authorization will be reversed immediately to buyer. Card will be saved to the system. Field i-t-1-1_skip-confirmation-page is assumed to be "1" even if 0 (or empty) is given. In this case, a zero amount payment is accepted, (l-f-1-20_order-gross-amount = 0)

3) **Disable save payment UI.** Save payment options will be removed from UI. In this case credit card will not be saved in system.

NOTE2: The payment sum needs to be filled, the funds are authorized and the payment sum will be shown in 3D secure, if 3d secure is used. It is suggested to use smallest possible amount (such as 0.01 €) for the charge, even the funds are returned immediately to the end user.

NOTE3: UI features "Payment details button disable" and "shopping basket disable" are present on templates and templates predating this feature, will show those features.

NOTE4: When saved to system Card is encrypted using Verifone Public Keys, key alias which is used is set in merchant agreement.

Example

1

2.38 Register Token

Parameter Name

i-t-1-1_register-token

Format

Integer with value 0 or 1

Description

When payment is successful, a token is registered for the card that the user has used. If this is set to 1, parameter i-t-1-1_save-payment-method has to be 1 or 2, otherwise the payment will fail.

Example

1

2.39 Additional Delivery Text

Parameter Name

s-t-1-160_additional-delivery-text

Format

String with length 1-160

Description

Text included in link email or SMS

Example

Link has been generated

2.40 Sender email

Parameter Name

s-t-1-128_sender-email

Format

String with length 1-128

Description

Email that will show as sender for the link email.

Example

noreply@merchant.com

2.41 Payment Link Number

Parameter Name

s-t-1-36_payment-link-number

Format

String with length of 1-36 characters.

Description

Number of the payment link

Example

123456789

2.42 Payment Link Status

Parameter Name

s-t-1-36_payment-link-status

Format

String with length of 1-36 characters.

Description

Current status of payment link

Example

new

2.43 Payment link delivery mode

Parameter Name

s-f-1-32_payment-link-delivery-mode

Format

String with length of 1-32 characters

Description

Delivery mode of payment link, either SMS or EMAIL

Example

EMAIL

2.44 Service Code

Parameter Name

s-t-1-36_service-code

Format

String of max 36 chars

Description

The parameter will be used only if i-t-1-1_register-token is 1. If filled, the token will be associated to a specific VAS code and s-t-1-36_service-code will overrule i-t-1-1_token-scope (existing tokens are searched by service code only and not scope).

Example

service_code

2.45 Skip Confirmation Page

Parameter Name

i-t-1-1_skip-confirmation-page

Format

Integer with value 0 or 1.

Description

Integer defining if confirmation page after successful payment should be skipped.

0). Include confirmation page to payment process.

1). Skip confirmation page in payment process. If the page has payment progress indicator the confirmation step will not be shown, if it is set to be skipped. (This is present on templates and templates pre-dating this will show confirmation step, even if it is set to be skipped.)

Example

1

2.46 Success Callback URL

Parameter Name

s-f-5-128_success-url

Format

String with length of 5-128 characters.

Description

URL of the web shop payment success page.

Example

<https://e.com/success>

2.47 Rejected Callback URL

Parameter Name

s-f-5-128_rejected-url

Format

String with length of 5-128 characters.

Description

URL of the web shop payment rejected page.

Example

<https://e.com/cancel>

2.48 Cancel Callback URL

Parameter Name

s-f-5-128_cancel-url

Format

String with length of 5-128 characters.

Description

URL of the web shop payment buyer canceled page.

Example

<https://e.com/cancel>

2.49 Expired Callback URL

Parameter Name

s-f-5-128_expired-url

Format

String with length of 5-128 characters.

Description

URL of the web shop payment expired page.

Example

<https://e.com/cancel>

2.50 Error Callback URL

Parameter Name

s-f-5-128_error-url

Format

String with length of 5-128 characters.

Description

URL of the web shop payment error page.

Example

<https://e.com/cancel>

2.51 Success Callback URL

Parameter Name

s-f-5-256_success-url

Format

String with length of 5-256 characters.

Description

URL of the web shop payment success page.

Example

<https://e.com/success>

2.52 Rejected Callback URL

Parameter Name

s-f-5-256_rejected-url

Format

String with length of 5-256 characters.

Description

URL of the web shop payment rejected page.

Example

<https://e.com/cancel>

2.53 Cancel Callback URL

Parameter Name

s-f-5-256_cancel-url

Format

String with length of 5-256 characters.

Description

URL of the web shop payment buyer canceled page.

Example

<https://e.com/cancel>

2.54 Expired Callback URL

Parameter Name

s-f-5-256_expired-url

Format

String with length of 5-256 characters.

Description

URL of the web shop payment expired page.

Example

<https://e.com/cancel>

2.55 Error Callback URL

Parameter Name

s-f-5-256_error-url

Format

String with length of 5-256 characters.

Description

URL of the web shop payment error page.

Example

<https://e.com/cancel>

2.56 Delayed success URL

Parameter Name

s-t-5-256_change-server-to-server-success-url

Format

String with length of 5-256 characters

Description

URL of the delayed success URL for the web shop to where confirmation will be sent if payment was successful.

Example

https://e.com/response

2.57 Type of payment

Parameter Name

s-t-1-32_type-of-payment

Format

String with length of 1-32

Description

Type of payment limit the type of payment to only show card-payment, electronic-payment or invoice-payment

Example

card-payment

2.58 Software

Parameter Name

s-f-1-30_software

Format

String with length of 1-30 characters.

Description

Name of the web shop software.

Example

My Shop Software

2.59 Software Version

Parameter Name

s-f-1-10_software-version

Format

String with length of 1-10 characters.

Description

Version of the web shop software.

Example

1.0.1

2.60 Interface Version

Parameter Name

i-f-1-11_interface-version

Format

String with length of 1-11 numeric characters.

Description

Version of the payment interface.

Example

1

2.61 Submit Button

Parameter Name

s-t-1-40_submit

Format

String with length of 1-40 characters.

Description

The submit button. This parameter must not be used when creating the signature.

Example

Submit

2.62 Signature One

Parameter Name

s-t-256-256_signature-one

Format

String with length of 256 characters.

Description

128 byte signature converted to upper case hexadecimal string.

Example

FA12FFA8748AB9GFF8FFFA12FFA8748AB9GFF8FFFA12FFA8748AB9GFF8FFFA12
FFA8748AB9GFF8FFFA12FFA8748AB9GFF8FFFA12FFA8748AB9GFF8FFFA12FFA8
748AB9GFF8FFFA12FFA8748AB9GFF8FFFA12FFA8748AB9GFF8FFFA12FFA8748A
B9GFF8FFFA12FFA8748AB9GFF8FFFA12FFA8748AB9GFF8FFFA12FFA8748AB9GF

2.63 Signature Two

Parameter Name

s-t-256-256_signature-two

Format

String with length of 256 characters.

Description

128 byte signature converted to upper case hexadecimal string.

Example

FA12FFA8748AB9GFF8FFFA12FFA8748AB9GFF8FFFA12FFA8748AB9GFF8FFFA12
FFA8748AB9GFF8FFFA12FFA8748AB9GFF8FFFA12FFA8748AB9GFF8FFFA12FFA8
748AB9GFF8FFFA12FFA8748AB9GFF8FFFA12FFA8748AB9GFF8FFFA12FFA8748A
B9GFF8FFFA12FFA8748AB9GFF8FFFA12FFA8748AB9GFF8FFFA12FFA8748AB9GF

2.64 Item Gross Amount

Parameter Name

l-t-1-20_bi-gross-amount-<N>

Format

Long integer value formatted as string with 1-20 numeric characters.

Description

Item gross amount including tax and discount with two decimal precision. Example value corresponds to 1 EUR.

Example

100

2.65 Item Net Amount

Parameter Name

l-t-1-20_bi-net-amount-<N>

Format

Long integer value formatted as string with 1-20 numeric characters.

Description

Item net amount calculated from unit cost times unit count with two decimal precision. Example value corresponds to 1 EUR.

Example

100

2.66 Item VAT Percentage

Parameter Name

i-t-1-4_bi-vat-percentage-<N>

Format

Integer formatted as string with 0, 1-4 numeric characters

Description

Item value added tax percentage with two decimal precision. Example value corresponds to 22.5 %. Can be empty if multiple VAT percentages are used in order. Currently cannot be an empty string nor missing.

Example

2250

2.67 Item Discount Percentage

Parameter Name

i-t-1-4_bi-discount-percentage-<N>

Format

Integer formatted as string with 0, 1-4 numeric characters

Description

Item discount percentage tax with two decimal precision. Example value corresponds to 5.5%. Currently, cannot be an empty string or missing

Example

550

2.68 Item Merchant Code

Parameter Name

s-t-1-36_bi-merchant-agreement-code-<N>

Format

String with length of 1-36 characters.

Description

Channel-mode merchant code. Contains child merchant number for report transactions

Example

NULL

2.69 Item Product Number

Parameter Name

s-t-1-36_bi-product-number-<N>

Format

String with length of 1-36 characters.

Description

Channel-mode product number. Contains product number for particular merchant

Example

NULL

2.70 Item Commission percentage

Parameter Name

i-t-1-4_bi-commission-percentage-<N>

Format

Integer formatted as string with 0, 1-4 numeric characters.

Description

Channel-mode commission percentage.

Example

NULL

2.71 Item channel fee

Parameter Name

l-t-1-20_bi-fee-amount-<N>

Format

Long formatted as string with 0, 1-20 numeric characters

Description

Channel-mode fee amount.

Example

NULL

2.72 Item Name

Parameter Name

s-t-1-30_bi-name-<N>

Format

String with length of 1-30 characters.

Description

Item name of the Nth basket item.

Example

Red Apple

2.73 Item Unit Cost

Parameter Name

I-t-1-20_bi-unit-cost-<N>

Format

Long integer value formatted as string with 1-20 numeric characters. Must be filled if unit gross cost is not filled. **Must not be filled if it is.**

Description

Unit cost with two decimal precision but without discount and tax. Example value corresponds to 1 EUR.

NOTE: usage of unit cost instead of unit gross cost can create rounding errors, when refunding individual items. If you for example have gross cost of 89.00 EUR, there is no corresponding gross cost with discount 0\% and GST 24\%. 71.77 EUR and 24\% GST is 88.99 EUR, but 71.78 EUR lead to gross cost of 89.01 EUR. Thus if consumer buys 2 items with gross cost of 89.00 and returns only one he will be returned 88.99 EUR. (If he returns both then the entire row will be refunded and no problem exists.) The solution to this problem is either to use unit gross cost, or calculate unit gross cost in the first place from unit costs, and not the other way around, because if one does it this way, there will be rounding errors, since EURO and currencies in general are finitely dividable.

Example

100

2.74 Item Unit Gross Cost

Parameter Name

I-t-1-20_bi-unit-gross-cost-<N>

Format

Long integer value formatted as string with 1-20 numeric characters. Must be filled if unit cost is not filled. **Must not be filled if it is.**

Description

Unit cost with two decimal precision, with discount and tax. Example value corresponds to 1 EUR, 24 % vat and 0 % discount.

Example

124

2.75 Item Unit Count

Parameter Name

i-t-1-11_bi-unit-count-<N>

Format

Integer value formatted as string with 1-11 numeric characters.

Description

Number of units in the item.

Example

1

2.76 Transaction Number

Parameter Name

l-f-1-20_transaction-number

Format

Integer value formatted as string with 1-20 numeric characters.

Description

Transaction number identifying the payment transaction. Assigned by payment system.

Example

123

2.77 Payment Method Code

Parameter Name

s-f-1-30_payment-method-code

Format

String with length of 1-30 characters.

Description

String key identifying the payment method used. Value can be found in Appendix (please see the end of this document)

Example

visa

2.78 Reference Number

Parameter Name

s-f-1-20_reference-number

Format

String with length of 1-20 characters.

Description

Verifone's Reference Number of electronic payment.

Example

4

2.79 Filing Code

Parameter Name

s-t-1-26_filing-code

Format

String with length of 0 or 1-26 characters.

Description

Filing code of the transaction.

Example

1234567890

2.80 Expiration date

Parameter Name

s-t-1-6_card-expected-validity

Format

Date formatted as MMyyyy.

Description

Card expiration dates. Returned when i-t-1-1_save-payment-method = 1|2 via payment interface or list-saved-payment-methods is used via server interface.

Example

122012

2.81 Cancel Reason

Parameter Name

s-t-1-30_cancel-reason

Format

String with length of 1-30 characters.

Description

The reason of payment cancellation.

Example

cancel-payment-rejected

2.82 Token Extra Info

Parameter Name

i-t-1-1_token-extra-info

Format

Integer with value 0 or 1

Description

If token is successfully registered, masked pan and token expiration date will be returned in response.

Example

1

2.83 Token Scope

Parameter Name

i-t-1-1_token-scope

Format

Integer with value 1, 2, 3

Description

Value to indicate which scope token should belong to.

1. Terminal group
2. Company
3. Company group

Example

1

2.84 Payment session timeout

Parameter Name

i-t-1-9_payment-session-minutes-timeout

Format

Integer

Description

Timeout value for the host payment page in minutes.

(must be between the 'hpp-minimum-timeout' property value and 'hpp-maximum-timeout' one)

Example

8

2.85 Skip 3D Secure

Parameter Name

i-t-1-1_skip-three-d-secure

Format

Integer with value 0 or 1.

Description

Integer defining whether 3D Secure to be skipped for this payment.

- 0) Do not skip 3D Secure
- 1) Skip 3D Secure

Example

1

2.86 Delivery Address First Name

Parameter Name

s-t-1-30_delivery-address-first-name

Format

String with length of 1-30 characters

Description

First Name of the Ship to address

Example

John

2.87 Delivery Address Last Name

Parameter Name

s-t-1-30_delivery-address-last-name

Format

String with length of 1-30 characters

Description

Last Name of the ship to address

Example

Smith

2.88 Delivery Address State

Parameter Name

s-t-1-30_delivery-address-state

Format

String with length of 1-30 characters

Description

State of the Ship to address

Example

Northern Savonia

2.89 Delivery Address Phone Number

Parameter Name

s-t-1-30_delivery-address-phone-number

Format

String with length of 1-30 characters

Description

Phone number of the Ship to address

Example

+358 40 163 9099

2.90 Delivery Address Email

Parameter Name

s-t-1-100_delivery-address-email

Format

String with length of 1-100 characters

Description

Email address of the Ship to address

Example

john.smith@gmail.com

2.91 Card Type

Parameter Name

s-t-1-30_card-type

Format

String with length of 1 to 30.

Description

Card type.

Example

visa

2.92 Card Expiry Date

Parameter Name

s-t-1-6_card-expiry-date

Format

042015

Description

Expiry date of the card in format MMDDYY.

Example

042015

2.93 Error Code

Parameter Name

s-t-1-4-error-code

Format

String with length of 1 to 4.

Description

Error code sent from HPP (Hxxx) or from the Bus (Bxxx).

Example

H002

2.94 Card 3DS authorization status

Parameter Name

i-t-2-2_card-3ds-auth-status

Format

String with length of 2.

Description

Status of 3DS authorization.

Example

03

2.95 Dynamic Feedback

Parameter Name

s-t-1-1024_dynamic-feedback

Format

String with length of 1-1024

Description

List of parameters to be added to the response if available.

Example

s-t-1-6_authorization-number, s-t-1-256_token-one-way, s-t-1-30_card-type, i-t-1-2_card-3ds-auth-status, i-t-1-1_card-3ds-enrollment-status, s-t-1-1_3ds-charge-back, i-t-1-3_customer-ip-country, i-t-1-3_card-issued-country, i-t-2-2_card-pan-last2, i-t-6-6_card-pan-first6, l-f-1-20_dynamic-reference-number, s-t-1-256_token-two-way, s-t-6-6_settlement-date

2.96 Card 3DS enrollment status

Parameter Name

i-t-1-1_card-3ds-enrollment-status

Format

String with length of 1.

Description

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

Example

1

2.97 Customer IP Country

Parameter Name

i-t-1-3_customer-ip-country

Format

String with length of 1 to 3.

Description

Country code of the customer (resolved from customer ip address).

Example

233

2.98 Card Issued Country

Parameter Name

i-t-1-3_card-issued-country

Format

String with length of 1 to 3.

Description

Code of country which issued the card.

Example

40

2.99 Card 3DS charge back

Parameter Name

s-t-1-1_3ds-charge-back

Format

String with length of 1.

Description

3DS charge-back (J=3DS, N=CVV after attempt to 3DS, P=only CVV).

Example

N

2.100 Last two digits on the card

Parameter Name

i-t-2-2_card-pan-last2

Format

String of digits with length of 2.

Description

Last 2 digits of the card used to make the payment.

Example

11

2.101 Reference Number

Parameter Name

l-f-1-20_reference-number

Format

String with length of 1 to 20.

Description

Transaction number identifying the payment transaction. Assigned by payment system.

Example

123

2.102 First six digits on the card

Parameter Name

i-t-6-6_card-pan-first6

Format

String of digits with length of 6.

Description

First 6 digits of the cards used to make the payment.

Example

453288

2.103 Token

Parameter Name

s-t-1-256_token

Format

String with length of 0 or 1-256 characters.

Description

Token that was registered for the card that the used.

Example

100

2.104 One Way Token

Parameter Name

s-t-1-256_token-one-way

Format

String with length of 1 to 256.

Description

Token that was registered for the card that the used.

Example

100

2.105 Two Way Token

Parameter Name

s-t-1-256_token-two-way

Format

String with length of 1 to 256.

Description

Token that was registered for the card that the used.

Example

100

2.106 Token Expiration Date

Parameter Name

s-t-10-10_token-expiration-date

Format

yyyy-MM-dd

Description

Token expiration date

Example

2010-01-01

2.107 Token Masked pan

Parameter Name

s-t-1-36_token-masked-pan

Format

String with length of 0 or 1-36 characters.

Description

Masked pan used to generate token

Example

123456*****0000

2.108 Authorization Number

Parameter Name

s-t-1-6_authorization-number

Format

String with length of 1 to 6 characters.

Description

A reference provided by the authorizing institution. Only required in response messages and will only be present where the transaction is approved.

Example

123456

2.109 Settlement Date

Parameter Name

s-t-6-6_settlement-date

Format

String with length of 6.

Description

Settlement data is set by TSS.

Example

082115

2.110 Settlement Date

Parameter Name

s-f-1-30_payment-status-code

Format

String with length of 1-30 characters.

Description

Code identifying status of the chosen payment method.

Example

authorized

2.111 Operation

Parameter Name

s-f-1-30_operation

Format

String with length of 1-30 characters.

Description

The operation which this request is requesting to be invoked.

Example

is-available

2.112 Request ID

Parameter Name

l-f-1-20_request-id

Format

64 bit signed integer value formatted as a string with 1-20 numeric characters.

Description

Unique request identifier per merchant agreement.

Example

100

2.113 Request Timestamp

Parameter Name

t-f-14-19_request-timestamp

Format

yyyy-MM-dd HH:mm:ss

Description

Timestamp defining the request time from web shop point of view.

Example

2012-06-13 16:00:02

2.114 Response ID

Parameter Name

l-f-1-20_response-id

Format

64 bit signed integer value formatted as a string with 1-20 numeric characters.

Description

Unique response identifier per merchant agreement.

Example

100

2.115 Response Timestamp

Parameter Name

t-f-14-19_response-timestamp

Format

yyyy-MM-dd HH:mm:ss

Description

Timestamp defining the response time from payment system point of view.

Example

2012-06-13 16:00:02

2.116 Error Message

Parameter Name

s-f-1-30_error-message

Format

String with length of 1-30 characters.

Description

The error which occurred.

Example

No such merchant agreement.

2.117 Server Interface Access Level

Parameter Name

i-f-1-1_availability

Format

Integer value formatted as string with 1 numeric character.

Description

0 = No access to Server Interface has been granted by Verifone.

1 = Express level access to Server Interface.

2 = Advanced level access to Server Interface.

If you receive value 0 then contact Verifone in order to activate Server Interface access.

Example

0

2.118 Payment Method Minimum Amount

Parameter Name

l-t-1-20_payment-method-min-<N>

Format

64 bit signed integer value formatted as a string with 1-20 numeric characters.

Description

Minimum amount for the payment method.

Example

0

2.119 Payment Method Maximum Amount

Parameter Name

l-t-1-20_payment-method-max-<N>

Format

64 bit signed integer value formatted as a string with 1-20 numeric characters.

Description

Maximum amount for the payment method.

Example

10000

2.120 Payment Method Type

Parameter Name

s-t-1-30_payment-method-type-<N>

Format

String with length of 1-40 characters.

Description

Type of the payment method. Value can be found in Appendix (please see the end of this document)

Example

VISA

2.121 Payment Method Title

Parameter Name

s-t-1-30_payment-method-title

Format

String with length of 1-30 characters.

Description

The title of payment method.

Example

455566*****8887

2.122 Buyer External Identifier

Parameter Name

s-t-1-255_buyer-external-id

Format

String with length of 1-255 characters.

Description

Identifier of the buyer assigned by web shop. Not recommended to be used. Will be replaced identification mechanism based on other mandatory user details.

Example

213123123

2.123 Removed Count

Parameter Name

i-t-1-10_removed-count

Format

Long integer value formatted as string with 1-10 numeric characters.

Description

0 = Payment method not removed

1 = Payment method removed

Example

1

2.124 Card Security Code

Parameter Name

s-t-1-4_card-security-code

Format

String with length of 1-4 characters.

Description

The card security code. Must not be used unless separately agreed.

Example

123

2.125 Partial Capture

Parameter Name

i-t-1-1_partial-capture

Format

Integer value 0(false) or 1(true)

Description

Flag indicating if debit is partial and remaining order should be left open for future debits.

Example

1

2.126 Payment Method ID

Parameter Name

l-t-1-20_payment-method-id

Format

64 bit signed integer value formatted as a string with 1-20 numeric characters.

Description

ID of the saved payment method.

Example

242

2.127 Saved Payment Method ID

Parameter Name

l-f-1-20_saved-payment-method-id

Format

64 bit signed integer value formatted as a string with 1-20 numeric characters.

Description

ID of the saved payment method.

Example

123

2.128 Encrypted Card Details

Parameter Name

s-t-256-512_encrypted-card-details

Format

String with length of 256-512 characters.

Description

<PAN>=<MMyyyy> padded with PKCS #1 padding and RSA encrypted and converted to upper case hexadecimal string.

Example

FA12...FF

2.129 Order Expiry Timestamp

Parameter Name

t-f-14-19_order-expiry-timestamp

Format

yyyy-MM-dd HH:mm:ss

Description

Payment link expiry, present only if status is EXPIRED or NEW

Example

2010-01-01 01:01:32

2.130 Payment Result Code

Parameter Name

s-f-1-30_payment-result-code

Format

String with length of 1-30 characters.

Description

Code identifying status of the void payment

Example

success

2.131 Social Security Number

Parameter Name

s-t-0-11_social-security-number

Format

String with length of 0 to 11 characters.

Description

Person ID of the payer in invoice payments. Returned only for invoices and only when available and agreed to be returned.

Example

110101-0000

2.132 Bill to address first name

Parameter Name

s-t-1-30_bill-to-address-first-name

Format

String with length of 1-30 characters.

Description

Fist name in address to bill.

Example

Jane

2.133 Bill to address last name

Parameter Name

s-t-1-30_bill-to-address-last-name

Format

String with length of 1-30 characters.

Description

Bill to address last name.

Example

Doe

2.134 Bill to address line one

Parameter Name

s-t-1-30_bill-to-address-line-one

Format

String with length of 1-30 characters.

Description

Address to bill, first line.

Example

Long Address Which Cont...

2.135 Bill to address line two

Parameter Name

s-t-1-30_bill-to-address-line-two

Format

String with length of 1-30 characters.

Description

Address to bill, second line.

Example

...inues On The Second line and on...

2.136 Bill to address line three

Parameter Name

s-t-1-30_bill-to-address-line-three

Format

String with length of 1-30 characters.

Description

Address to bill, third line.

Example

...the Third Line.

2.137 Bill to address postal code

Parameter Name

s-t-1-30_bill-to-address-postal-code

Format

String with length of 1-30 characters.

Description

Postal code of address to bill.

Example

70100

2.138 Extra token info

Parameter Name

i-t-1-1_token-extra-info

Format

Integer with value 0 or 1.

Description

Integer defining if extra info (masked pan/ expiration date) should be returned.

Example

1

2.139 Encrypted Payment Method Details

Parameter Name

s-t-1-1024_encrypted-payment-method-details

Format

String with length of 1-1024 characters.

Description

<PAN>, converted to upper case hexadecimal string. This field will contain the encrypted PAN.

Example

-

2.140 3D Secure Mode

Parameter Name

i-t-1-1_3ds-secure-mode

Format

Integer with value 1 or 2.

Description

Integer defining 3D secure operation. This is allowed only for merchant that is PCI enabled.

Example

1

2.141 Http-accept

Parameter Name

s-t-1-256_http-accept

Format

String with length of 0, 1-256 characters.

Description

Http-client parameter. Used only in 3D secure mode.

Example

/

2.142 Http-user-agent

Parameter Name

s-t-1-256_http-user-agent

Format

String with length of 0, 1-256 characters.

Description

Http-client parameter. Used only in 3D secure mode.

Example

Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/57.0.2987.133 Safari/537.36

2.143 Dynamic Reference Number

Parameter Name

l-f-1-20_dynamic-reference-number

Format

Integer value formatted as string with 1-20 numeric characters.

Description

Dynamic reference number.

Example

23452345

2.144 MD token for 3DS authentication

Parameter Name

s-t-1-8192_3ds-md

Format

String with length of 1 to 8192.

Description

One time token for 3D secure authentication. Used only in 3D secure mode.

Example

MD_0_____12302...c3

2.145 PaReq

Parameter Name

s-t-1-8192_3ds-pareq

Format

String with length of 1 to 8192.

Description

One time token for 3D secure authentication. Used only in 3D secure mode.

Example

eJxdUV...lg

2.146 PaRes

Parameter Name

s-t-1-65536_3ds-pares

Format

String with length of 1 to 65536.

Description

One time token for 3D secure authentication.

Example

eJzVWNmuo0qy/Z...M=

2.147 3DS Authentication URL

Parameter Name

s-t-1-256_3ds-accs-url

Format

String with length of 1 to 256.

Description

Forward URL for 3D secure authentication. Used only in 3D secure mode.

Example

<https://3ds-accs.test.modirum.com/mdpayacs/pareq>

2.148 Card Product

Parameter Name

s-t-1-8_card-product

Format

String with length of 1 to 8.

Description

Card product type (applied only to specific issuer).

Example

debit

3 Payment method enumeration

payment method code (s-t-1-30_payment-method-code)	payment method type (s-t-1-30_payment_method_type)	Type of payment	Notes
Visa	VISA	CARD	
master-card	MASTER_CARD	CARD	
s-pankki-verkkomaksu	S_PANKKI_VERKKOMAKSU	BANK	
aktia-maksu	AKTIA_MAKSU	BANK	
nordea-e-payment	NORDEA_E_PAYMENT	BANK	
sampo-web-payment	SAMPO_WEB_PAYMENT	BANK	
tapiola-verkkomaksu	TAPIOLA_VERKKOMAKSU	BANK	
handelsbanken-e-payment	HANDELSBANKEN_E_PAYMENT	BANK	
alandsbanken-e-payment	ALANDBANKEN_E_PAYMENT	BANK	
nordea-se-db	NORDEA_SE_DB	BANK	
handelsbanken-se-db	HANDELSBANKEN_SE_DB	BANK	
swedbank-se-db	SWEDBANK_SE_DB	BANK	
seb-se-db	SEB_SE_DB	BANK	
invoice-collector	INVOICE_COLLECTOR	INVOICE	Collector requires basket items in the request.
bank-axess	BANK_AXESS	BANK	
dankort	DANKORT	CARD	
nordea-dk-db	NORDEA_DK_DB	BANK	
danske-netbetaling	DANSKE_NETBETALING	BANK	
handelsbanken-se-invoice	HANDELSBANKEN_SE_INVOICE	INVOICE	Handelsbanken requires basket items in the request. Order number must not be longer than 16 characters.
amex	AMEX	CARD	
diners	DINERS	CARD	
handelsbanken-se-account	HANDELSBANKEN_SE_ACCOUNT	INVOICE	Handelsbanken requires basket items in the request. Order number must not be longer than 16 characters
svea-webpay-invoice	SVEA_WEBPAY_INVOICE	INVOICE	
svea-webpay-installment	SVEA_WEBPAY_INSTALLMENT	INVOICE	
seb-lt	SEB_LT	BANK	
seb-lv	SEB_LV	BANK	
dnb-lv	DNB_LV	BANK	
dnb-lt	DNB_LT	BANK	
pop-pankin-verkkomaksu	POP_PANKIN_VERKKOMAKSU	BANK	
saastopankin-verkkomaksu	SAASTOPANKIN_VERKKOMAKSU	BANK	
enterpay-invoice	ENTERPAY_INVOICE	INVOICE	Lasku Yritykselle.fi, requires basket items.
euroloan-invoice	EUROLOAN_INVOICE	INVOICE	Euroloan requires basket items in the request.
arvato-afterpay-invoice	ARVATO_AFTERPAY_INVOICE	INVOICE	
visa-electron	VISA_ELECTRON	CARD	bin table must be installed, in order to use this payment method.
master-card-maestro	MASTER_CARD_MAESTRO	CARD	bin table must be installed, in order to use this payment method.
jcb	JCB	CARD	
seb-ee	SEB_EE	BANK	
swedbank-ee	SWEDBANK_EE	BANK	
danske-bank-ee	DANSKE_BANK_EE	BANK	
swedbank-lv	SWEDBANK_LV	BANK	
swedbank-lt	SWEDBANK_LT	BANK	
paypal	PAYPAL	INVOICE	

4 Error Codes

Possible error codes which server to server interface can return during its operations. New error codes may be added without prior notice.

Error Code	Description
system_error	System error occurred while processing request.
signature_verification_failed	Indicates that signature verification was not succesful.
merchant_agreement_not_found	Indicates that such merchant agreement does not exist.
access_denied	Indicates that access level is not sufficient.
no_acquirer_agreements	Indicates that no acquirer agreements could be found.
buyer_payments_disabled	Indicates that payments are disabled.
service_unavailable	Service is currently unavailable
invalid_expiration_date	Indicate that payment expiration date is invalid.
unknown_saved_payment_method	Indicates that provided saved payment method was not found.
not_allow_payment_by_merchant	Indicates that merchant agreement does not allow buyer payments.
not_allow_payment_by_acquirer	Indicates that acquirer agreement does not allow buyer payments.

Possible error codes returned by payment validator.

order-number-not-valid	Order number not valid
invalid-currency	Invalid currency
invalid-currency-code	Invalid currency code
invalid-payment-timestamp	Invalid payment timestamp
delivery-address-country-code	Delivery address country code
deferred-payment-not-0-or-1	Deferred payment not 0 or 1
partial-capture-not-supported	Partial capture not supported
invalid-card-security-code	Invalid card security code
recurring-payment-parameter	Recurring payment parameter
recurring-payment-name	Recurring payment name
recurring-payment-mandatory	Recurring payment mandatory
recur-subscrip-expec-per-mand	recur subscrip expec per mand
invalid-save-payment-method	Invalid save payment method
invalid-register-token	Invalid register token
skip-confirmation-page	Skip confirmation page
invalid-payment-method-code	Invalid payment method code
lost-saved-payment-method-id	Lost saved payment method id
invalid-payment-method-code	Invalid payment method code
error-no-basket-items	Error no basket items
negative-transaction-number	negative transaction number
payment-method-missing	Payment method missing
invalid-input-channel	Invalid input channel
channel-mode-inv-missing-param	Channel mode invalid missing parameters
channel-mode-inv-product-nr	Channel mode invalid product number input
subscription-expected-period	Subscription expected period
invalid-subscription-end	Invalid subscription end
error-unknown-parameter-type	Validation error unknown parameter type
subscription-expected-period	Subscription expected period
invalid-subscription-end	Invalid subscription end

Operation related error codes

unknown-error	Unknown error
system-error	System error
signature-verification-failed	Signature verification failed
merchant-agreement-not-found	Merchant agreement not found
access-denied	Access denied
no-acquirer-agreements	No acquirer agreements
buyer-payments-disabled	Buyer payments disabled
failed	Failed

service-unavailable	Service unavailable
invalid-expiration-date	Invalid expiration date
unknown-saved-payment-method	Unknown saved payment method
not-allow-payment-by-merchant	Not allow payment by merchant
not-allow-payment-by-acquirer	Not allow payment by acquirer
invalid-card-number	Invalid card number
invalid-currency	Invalid currency
invalid-payment-method	Invalid payment method
invalid-order-number	Invalid order number
order-already-debited	Order already debited
invalid-order-amount	Invalid order amount
invalid-transaction-number	Invalid transaction number
order-already-canceled	Order already canceled
unknown-terminal	Unknown terminal
token-not-found	Token not found
invalid-service	Invalid service
not-supported-by-interface-ver	Not supported by interface version
unsupported-auth-cancel	Unsupported authorization cancel
token-expired	Token expired
token-deleted	Token deleted
failed-to-contact-services	Failed to contact services
invalid-payment	Invalid payment
invalid-phone-number-missing	Invalid phone number missing
invalid-values-anonymous-buyer	Invalid values anonymous buyer
incorrect-payment-method	Incorrect payment method
payment-rejected	Payment rejected
incorrect-token	Incorrect token
incorrect-payment-link-number	Incorrect payment link number
incorrect-link-delivery-mode	Incorrect link delivery mode
sms-phone-number-missing	SMS phone number missing
payment-link-inv-mer-agreement	Invalid payment link merchant agreement
payment-link-not-found-for-upd	Payment link not found for update