

VERIFONE E-COMMERCE

Integration Guide

Server to Server

2015-11-04
Version 6.0.19

TABLE OF CONTENTS

1	Introduction.....	4
2	Interface Description	4
2.1	Transport	4
2.2	Security	4
2.2.1	Calculating Digital Signature from Form Parameters	4
2.2.2	Digital Signature Types	5
2.3	Operations	5
2.3.1	General Request and Response Header Fields.....	5
2.3.2	Cancel Payment (cancel-payment).....	6
2.3.3	Is Available (is-available)	6
2.3.4	List Payment Methods (list-payment-methods)	6
2.3.5	List Saved Payment Methods (list-saved-payment-methods)	7
2.3.6	Remove Saved Payment Method (remove-saved-payment-method)	7
2.3.7	Process Payment (process-payment)	8
2.3.8	Complete Payment (complete-payment).....	11
2.3.9	Debit Payment (debit-payment).....	11
2.3.10	Refund Payment (refund-payment)	12
2.3.11	Refund Amount (refund-amount)	13
2.3.12	Get Payment Status (get-payment-status).....	14
2.3.13	List Transaction Numbers (list-transaction-numbers).....	15
2.3.14	Save Card Payment Method (save-card-payment-method)	15
2.3.15	Save Token (save-token)	16
2.3.16	Get Token (get-token)	17
2.3.17	Delete Token (delete-token)	17
2.3.18	Generate payment link (generate-payment-link)	18
2.3.19	Get Payment Link Status (get-payment-link-status)	19
2.3.20	Reactivate Payment Link (reactivate-payment-link)	20
2.3.21	Swish Payment (process payment)	20
3	Error Codes	22
4	Usage	24
4.1	Service Agreement	24

4.2	Technical Support.....	24
4.3	Exchanging Keys	24
4.4	Implementation.....	24
4.5	Testing	25
4.6	Production	25

1 Introduction

This document describes integration process and server to server interface between a web shop (later a shop system) and Verifone E-Commerce System (later the payment system). The interface is designed to operate over HTTPS (Hypertext Transfer Protocol Secure). Authentication of both systems and verification of message integrity is implemented using digital signatures.

2 Interface Description

This chapter describes the server interface to enable third party integrations of shop systems to the payment system.

2.1 Transport

Transport between shop system and payment system is carried out using POST operations over HTTPS (Hypertext Transfer Protocol Secure) which is combination of HTTP (Hypertext Transfer Protocol) and TLS (transport layer security). Only server side certificate granted by public certificate authorities are used in transport layer security. Post and response contents are encoded with 'application/x-www-form-urlencoded'-encoding with UTF-8 character set.

2.2 Security

Digital signatures are used to authenticate participating systems and verify message integrity. Messages are signed with two different alternative algorithms to allow for wide variety of technical platforms to be supported. The public key size is 1024.

2.2.1 Calculating Digital Signature from Form Parameters

Form parameter name value pairs are sorted by key according the following collation: "0123456789-_abcdefghijklmnopqrstuvwxy". The signed content is created from this value list according to the following format:

```
<key1>=<value1>;<key2>=<value2>;...<keyN=valueN>;
```

Note: If ';' occurs in value it will be replaced with ';;' in signature content string. This applies to both requests and responses.

Example of the Signed Parameter Content

```
i-f-1-3_order-currency-code=978;...;
```

2.2.2 Digital Signature Types

Signature Number	Algorithm
1	RSA with SHA-1
2	RSA with SHA-512

2.3 Operations

2.3.1 General Request and Response Header Fields

2.3.1.1 Request Header

Title	Parameter Name	Format	Version	Optional
Operation	s-f-1-30_operation	String with length of 1-30 characters.	3	No
Request ID	l-f-1-20_request-id	Long integer value formatted as string with 1-20 numeric characters.	3	No
Request Timestamp	t-f-14-19_request-timestamp	yyyy-MM-dd HH:mm:ss	3	No
Merchant Agreement Code	s-f-1-36_merchant-agreement-code	String with length of 1-36 characters.	3	No
Software	s-f-1-30_software	String with length of 1-30 characters.	3	No
Software Version	s-f-1-10_software-version	String with length of 1-10 characters.	3	No
Interface Version	i-f-1-11_interface-version	String with length of 1-11 numeric characters.	3	No
Signature One	s-t-256-256_signature-one	String with length of 256-512 characters.	3	Yes
Signature Two	s-t-256-256_signature-two	String with length of 256-512 characters.	3	Yes

2.3.1.2 Response Header

Title	Parameter Name	Format	Version	Optional
Operation	s-f-1-30_operation	String with length of 1-30 characters.	3	No
Response ID	l-f-1-20_response-id	Long integer value formatted as string with 1 - 20 numeric characters.	3	No
Response Timestamp	t-f-14-19_response-timestamp	yyyy-MM-dd HH:mm:ss	3	No
Request ID	l-f-1-20_request-id	Long integer value formatted as string with 1-20 numeric characters.	3	No
Error message	s-f-1-30_error-message	String with length of 1-30 characters.	3	Yes
Software Version	s-f-1-10_software-version	String with length of 1-10 characters.	3	No
Interface Version	i-f-1-11_interface-version	String with length of 1-11 numeric characters.	3	No
Signature One	s-t-256-256_signature-one	String with length of 256-512 characters.	3	Yes
Signature Two	s-t-256-256_signature-two	String with length of 256-512 characters.	3	Yes

2.3.2 Cancel Payment (cancel-payment)

Operation for canceling a payment.

2.3.2.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Transaction Number	l-f-1-20_transaction-number	Integer value formatted as string with 1-20 numeric characters.	5	No
Payment Method Code	s-f-1-30_payment-method-code	String with length of 1-30 characters.	5	No
Dynamic feedback	s-t-1-1024_dynamic-feedback	String with length of 1-1024 chars.	5	Yes

2.3.2.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Payment Result Code	s-f-1-30_payment-result-code	String with length of 1-30 characters.	5	No
Transaction Number	l-f-1-20_transaction-number	Integer value formatted as string with 1-20 numeric characters.	6	No
Card Type	s-t-1-30_card-type	String with length of 1 to 30.	5	Yes
Error Code	s-t-1-4_error-code	String with length of 1 to 4.	5	Yes
Dynamic reference number	l-f-1-20_dynamic-reference-number	Integer value formatted as string with 1-20 numeric characters.	5	Yes

2.3.3 Is Available (is-available)

Operation for testing connectivity, signatures and requesting availability status of server interface for the merchant agreement.

2.3.3.1 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Server Interface Access Level	i-f-1-1_availability	Integer value formatted as string with 1 numeric character.	3	No

2.3.4 List Payment Methods (list-payment-methods)

Operation for listing available payment methods and their amount limits for the merchant agreement.

2.3.4.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Currency Code	i-f-1-3_currency-code	String with length of 1-3 numeric characters.	3	No

2.3.4.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Payment Method Code	s-t-1-30_payment-method-code-<N>	String with length of 1-30 characters.	3	Yes
Payment Method Minimum Amount	l-t-1-20_payment-method-min-<N>	Long integer value formatted as string with 1-20 numeric characters.	3	Yes
Payment Method Maximum Amount	l-t-1-20_payment-method-max-<N>	Long integer value formatted as string with 1-20 numeric characters.	3	Yes
Payment Method Type	s-t-1-30_payment-method-type-<N>	String with length of 1-40 characters.	3	Yes

2.3.5 List Saved Payment Methods (list-saved-payment-methods)

Operation for listing saved payment methods for given buyer.

2.3.5.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
First Name	s-f-1-30_buyer-first-name	String with length of 1-30 characters.	3	No
Last Name	s-f-1-30_buyer-last-name	String with length of 1-30 characters.	3	No
Phone Number	s-t-1-30_buyer-phone-number	String with length of 0, 1-30 characters.	3	Yes
Email Address	s-f-1-100_buyer-email-address	String with length of 1-100 characters.	3	No
Buyer External Identifier	s-t-1-255_buyer-external-id	String with length of 1-255 characters.	3	Yes
Delivery Address Line #1	s-t-1-30_delivery-address-line-one	String with length of 0, 1-30 characters.	3	Yes
Delivery Address Line #2	s-t-1-30_delivery-address-line-two	String with length of 0, 1-30 characters.	3	Yes
Delivery Address Line #3	s-t-1-30_delivery-address-line-three	String with length of 0, 1-30 characters.	3	Yes
Delivery Address City	s-t-1-30_delivery-address-city	String with length of 0, 1-30 characters.	3	Yes
Delivery Address Postal Code	s-t-1-30_delivery-address-postal-code	String with length of 0, 1-30 characters.	3	Yes
Delivery Address Country Code	i-t-1-3_delivery-address-country-code	String with length of 0, 1-3 characters.	3	Yes
Recurring Payment Subscription Code	s-t-1-30_recurring-payment-subscription-code	String with length of 0, 1-30 characters.	3	Yes

2.3.5.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Payment Method Code	s-t-1-30_payment-method-code-<N>	String with length of 1-30 characters.	3	Yes
Payment Method ID	i-t-1-20_payment-method-id-<N>	Long integer value formatted as string with 1-20 numeric characters.	3	Yes
Payment Method Title	s-t-1-30_payment-method-title-<N>	String with length of 1-30 characters.	3	Yes
Card Expected Validity	s-t-1-6_card-expected-validity-<N>	String with length of 1-6 characters	4	Yes
Encrypted payment method details	s-t-1-1024_encrypted-payment-method-details	String with length of 1-1024 characters.	5	Yes

2.3.6 Remove Saved Payment Method (remove-saved-payment-method)

Operation for removing saved payment method.

2.3.6.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Saved Payment Method ID	i-t-1-20_saved-payment-method-id	Long integer value formatted as string with 1-20 numeric characters.	3	No

2.3.6.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Removed Count	i-t-1-10_removed-count	Long integer value formatted as string with 1-10 numeric characters.	3	Yes

2.3.7 Process Payment (process-payment)

Operation for processing the payment.

2.3.7.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Payment Locale	locale-f-2-5_payment-locale	String with length of 2-5 characters.	3	No
Payment Timestamp	t-f-14-19_payment-timestamp	yyyy-MM-dd HH:mm:ss	3	No
Order Number	s-f-1-36_order-number	String with length of 1-36 characters.	3	No
Order Timestamp	t-f-14-19_order-timestamp	yyyy-MM-dd HH:mm:ss	3	No
Order Note	s-t-1-36_order-note	String with length of 0 or 1-36 characters.	3	Yes
Order Currency Code	i-f-1-3_order-currency-code	String with length of 1-3 Numeric characters.	3	No
Order Gross Amount	l-f-1-20_order-gross-amount	Long integer value formatted as string with 1-20 numeric characters.	3	No
Buyer First Name	s-f-1-30_buyer-first-name	String with length of 1-30 characters.	3	No
Buyer Last Name	s-f-1-30_buyer-last-name	String with length of 1-30 characters.	3	No
Buyer Phone Number	s-t-1-30_buyer-phone-number	String with length of 0, 1-30 characters.	3	Yes
Buyer Email Address	s-f-1-100_buyer-email-address	String with length of 1-100 characters.	3	No
Buyer External Identifier	s-t-1-255_buyer-external-id	String with length of 1-255 characters.	3	Yes
Delivery Address Line #1	s-t-1-30_delivery-address-line-one	String with length of 0, 1-30 characters.	3	Yes
Delivery Address Line #2	s-t-1-30_delivery-address-line-two	String with length of 0, 1-30 characters.	3	Yes
Delivery Address Line #3	s-t-1-30_delivery-address-line-three	String with length of 0, 1-30 characters.	3	Yes
Delivery Address City	s-t-1-30_delivery-address-city	String with length of 0, 1-30 characters.	3	Yes
Delivery Address Postal Code	s-t-1-30_delivery-address-postal-code	String with length of 0, 1-30 characters.	3	Yes
Delivery Address Country Code	i-t-1-3_delivery-address-country-code	String with length of 0, 1-3 characters.	3	Yes
Saved Payment Method ID	l-t-1-20_saved-payment-method-id	Long integer value formatted as string with 1-20 numeric characters.	3	Yes
3D secure mode	i-t-1-1_3ds-secure-mode	Integer with value 1 or 2.	3	Yes
Encrypted Card Details	s-f-256-512_encrypted-card-details	String with length of 256-512 characters.	3	
Http-accept	s-t-1-256_http-accept	String with length of 0, 1-256 characters.	3	Yes
Http-user-agent	s-t-1-256_http-user-agent	String with length of 0, 1-256 characters.	3	Yes
Recurring Payment	i-t-1-1_recurring-payment	Integer with value 0 or 1.	3	Yes
Deferred Payment	i-t-1-1_deferred-payment	Integer with value 0 or 1.	3	Yes
Card Security Code	s-t-1-4_card-security-code	String with length of 1-4 characters.	3	Yes
Register Token	i-t-1-1_register-token	Integer with value 0 or 1.	3	Yes / Not for Weaver
Token Extra Info	i-t-1-1_token-extra-info	Integer with value 0 or 1.	5	Yes
Token scope	i-t-1-1_token-scope	Integer with value 1,2,3	5	Yes / Not for Weaver
Token	s-t-1-256_token	String with length of 0 or 1-256 characters.	6	Yes
Dynamic feedback	s-t-1-1024_dynamic-feedback	String with length of 1-1024 chars.	5	Yes
Payment Method Code	s-f-1-30_payment-method-code	String with length of 1-30 characters.	6	No

0-50 basket items supported and they are only viewed to user as reminder of what the order contains.

Item Name	s-t-1-30_bi-name-<N>	String with length of 1-30 characters.	3	Yes
Item Unit Cost	l-t-1-20_bi-unit-cost-<N>	Long integer value formatted as string with 1-20 numeric characters. Must not be present if unit gross cost is used. Must be filled if unit gross cost is not filled. Must not be filled if it is.	3	Yes
Item Unit Gross Cost	l-t-1-20_bi-unit-gross-cost-<N>	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.	3	Yes
Item Unit Count	i-t-1-11_bi-unit-count-<N>	Integer value formatted as string with 1-11 numeric characters.	3	Yes
Item Gross Amount	l-t-1-20_bi-gross-amount-<N>	Long integer value formatted as string with 1-20 numeric characters.	3	Yes
Item Net Amount	l-t-1-20_bi-net-amount-<N>	Long integer value formatted as string with 1-20 numeric characters.	3	Yes
Item VAT Percentage	i-t-1-4_bi-vat-percentage-<N>	Integer formatted as string with 0,1-4 numeric characters	3	Yes
Item Discount Percentage	i-t-1-4_bi-discount-percentage-<N>	Integer formatted as string with 0,1-4 numeric characters	3	Yes

2.3.7.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Transaction Number	l-f-1-20_transaction-number	Integer value formatted as string with 1-20 numeric characters.	3	No
Payment Method Code	s-f-1-30_payment-method-code	String with length of 1-30 characters.	3	No
Order Number	s-f-1-36_order-number	String with length of 1-36 characters.	3	No
Order Note	s-t-1-36_order-note	String with length of 1-36 characters.	3	Yes
Order Timestamp	t-f-14-19_order-timestamp	yyyy-MM-dd HH:mm:ss	3	No
Order Currency Code	i-f-1-3_order-currency-code	String with length of 1-3 numeric characters.	3	No
Order Gross Amount	l-f-1-20_order-gross-amount	Long integer value formatted as string with 1-20 numeric characters.	3	No
Filing code	s-t-1-26_filing-code	String with length of 1-26 characters.	3	Yes
Token	s-t-1-256_token	String with length of 0 or 1-256 characters.	3	Yes
Token expiration date	s-t-10-10_token-expiration-date	yyyy-MM-dd	5	Yes
Masked pan	s-t-1-36_token-masked-pan	String with length of 0 or 1-36 characters.	5	Yes
Authorization Number	s-t-1-6_authorization-number	String with length of 1 to 6 characters.	5	Yes
Dynamic Reference Number	l-f-1-20_dynamic-reference-number	Integer value formatted as string with 1-20 numeric characters.	5	Yes
Card type	s-t-1-30_card-type	String with length of 1 to 30.	5	Yes
Card Expiry date	s-t-1-6_card-expiry-date	String with length of 1 to 6.	5	Yes
Error code	s-t-1-4_error-code	String with length of 1 to 4.	5	Yes
Card 3DS authorization status	i-t-1-1_card-3ds-enrollment-status	String with length of 2.	5	Yes
Card 3DS enrollment status	i-t-1-1_card-3ds-enrollment-status	String with length of 1.	5	Yes
MD token for 3DS authentication	s-t-1-8192_3ds-md	String with length of 1 to 8192.	3	Yes
PaReq	s-t-1-8192_3ds-pareq	String with length of 1 to 8192.	3	Yes
3DS authentication URL	s-t-1-256_3ds-acurl	String with length of 1 to 8192.	3	Yes
Card 3DS charge back	s-t-1-1_3ds-charge-back	String with length of 1.	5	Yes
Customer IP Country	i-t-1-3_customer-ip-country	String with length of 1 to 3.	5	Yes
Card Issued Country	i-t-1-3_card-issued-country	String with length of 1 to 3.	5	Yes
Last two digits on the card	i-t-2-2_card-pan-last2	String of digits with length of 2.	5	Yes
First six digits on the card	i-t-6-6_card-pan-first6	String of digits with length of 6.	5	Yes
Two Way Token	s-t-1-256_token-two-way	String with length of 1 to 256.	5	Yes
Card Product	s-t-1-8_card-product	String with length of 1 to 8.	5	Yes

2.3.8 Complete Payment (complete-payment)

Operation for completing payment in 3D secure mode. This operation is not actual distinct operation, but it merely continues process payment operation that was interrupted because of 3D secure mode. Operation complete payment (complete-payment) is required to be inside the same http session as operation process payment (process-payment), which initiated the payment.

2.3.8.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
MD token for 3DS authentication	s-t-1-8192_3ds-md	String with length of 1 to 8192.	3	Yes
PaRes token for 3DS authentication	s-t-1-65536_3ds-pares	String with length of 1 to 65536.	3	Yes

Besides conventional request parameters request is required to contain session header from process payment operation.

2.3.8.2 Additional Response Fields

Operation complete payment has the response parameters of operation process payment (process-payment).

2.3.9 Debit Payment (debit-payment)

Operation for triggering payment debit in case of deferred payment.

2.3.9.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Transaction Number	l-f-1-20_transaction-number	Integer value formatted as string with 1-20 numeric characters.	3	No
Payment Method Code	s-f-1-30_payment-method-code	String with length of 1-30 characters.	3	No
Order Note	s-t-1-36_order-note	String with length of 0 or 1-36 characters.	3	Yes
Order Currency Code	i-f-1-3_order-currency-code	String with length of 1-3 numeric characters.	3	No
Order Gross Amount	l-f-1-20_order-gross-amount	Long integer value formatted as string with 1-20 numeric characters.	3	No

0-50 basket items supported and they are only viewed to user as reminder of what the order contains.

Request must have all the order items that are to be debited, order items are matched by id.

2.3.9.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Transaction Number	l-f-1-20_transaction-number	Integer value formatted as string with 1-20 numeric characters.	3	No
Payment Method Code	s-f-1-30_payment-method-code	String with length of 1-30 characters.	3	No
Order Currency Code	i-f-1-3_order-currency-code	String with length of 1-3 numeric characters.	3	No
Order Gross Amount	l-f-1-20_order-gross-amount	Long integer value formatted as string with 1-20 numeric characters.	3	No

2.3.10 Refund Payment (refund-payment)

Operation for refunding payments.

2.3.10.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Transaction Number	i-f-1-20_transaction-number	Integer value formatted as string with 1-20 numeric characters.	3	No
Payment Method Code	s-f-1-30_payment-method-code	String with length of 1-30 characters.	3	Yes
Refund Currency Code	i-f-1-3_refund-currency-code	String with length of 1-3 Numeric characters.	3	No
Refund Amount	i-f-1-20_refund-amount	Long integer value formatted as string with 1-20 numeric characters.	3	No
Order Note	s-t-1-36_order-note	String with length of 0 or 1-36 characters.	3	Yes
Dynamic feedback	s-t-1-1024_dynamic-feedback	String with length of 1-1024 chars.	5	Yes

0-50 basket items supported and they are only viewed to user as reminder of what the order contains.

Order has to have all the basket items that are refunded. Basket items are matched by their id.

2.3.10.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Transaction Number	i-f-1-20_transaction-number	Integer value formatted as string with 1-20 numeric characters.	3	No
Payment Method Code	s-f-1-30_payment-method-code	String with length of 1-30 characters.	3	No
Authorization Number	s-t-1-6_authorization-number	String with length of 1 to 6 characters.	5	Yes
Dynamic reference number	i-f-1-20_dynamic-reference-number	Integer value formatted as string with 1-20 numeric characters.	5	Yes
Card type	s-t-1-30_card-type	String with length of 1 to 30.	5	Yes
Card Expiry date	s-t-1-6_card-expiry-date	String with length of 1 to 6.	5	Yes
Error code	s-t-1-4_error-code	String with length of 1 to 4.	5	Yes
3DS authorization status	i-t-2-2_card-3ds-auth-status	String with length of 2.	5	Yes
3DS enrollment status	i-t-1-1_card-3ds-enrollment-status	String with length of 1.	5	Yes
3DS charge back	s-t-1-1_3ds-charge-back	String with length of 1.	5	Yes
Customer IP Country	i-t-1-3_customer-ip-country	String with length of 1 to 3.	5	Yes
Card Issues Country	i-t-1-3_card-issued-country	String with length of 1 to 3.	5	Yes
Last two digits on the card	i-t-2-2_card-pan-last2	String of digits with length of 2.	5	Yes
First six digits on the card	i-t-6-6_card-pan-first6	String of digits with length of 6.	5	Yes
Token	s-t-1-256_token-two-way	String with length of 1 to 256.	5	Yes
Card product	s-t-1-8_card-product	String with length of 1 to 8.	5	Yes

2.3.11 Refund Amount (refund-amount)

Operation for refunding amounts like lottery wins in special cases. Must not and cannot be used without separate agreement with Verifone.

2.3.11.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Saved Payment Method ID	l-f-1-20_saved-payment-method-id	Long integer value formatted as string with 1-20 numeric characters.	5	Yes
Encrypted Card Details	s-t-256-512_encrypted-card-details	String with length of 256-512 characters.	6	Yes
Token	s-t-1-256_token	String with length of 0 or 1-256 characters.	6	Yes
Payment Method Code	s-f-1-30_payment-method-code	String with length of 1-30 characters.	5	No
Refund Currency Code	i-f-1-3_refund-currency-code	String with length of 1-3 numeric characters.	5	No
Refund Amount	l-f-1-20_refund-amount	Long integer value formatted as string with 1-20 numeric characters.	5	No
Order Note	s-t-1-36_order-note	String with length of 0 or 1-36 characters.	5	Yes
Dynamic feedback	s-t-1-1024_dynamic-feedback	String with length of 1-1024 chars.	5	Yes

2.3.11.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Transaction Number	l-f-1-20_transaction-number	Integer value formatted as string with 1-20 numeric characters.	3	No
Payment Method Code	s-f-1-30_payment-method-code	String with length of 1-30 characters.	3	No
Authorization Number	s-t-1-6_authorization-number	String with length of 1 to 6 characters.	5	Yes
Dynamic Reference Number	l-f-1-20_dynamic-reference-number	Integer value formatted as string with 1-20 numeric characters.	5	Yes
Card type	s-t-1-30_card-type	String with length of 1 to 30.	5	Yes
Expiry date	s-t-1-6_card-expiry-date	String with length of 1 to 6.	5	Yes
Error code	s-t-1-4_error-code	String with length of 1 to 4.	5	Yes
3DS authorization status	i-t-2-2_card-3ds-auth-status	String with length of 2.	5	Yes
3DS enrollment status	i-t-1-1_card-3ds-enrollment-status	String with length of 1.	5	Yes
3DS charge back	s-t-1-1_3ds-charge-back	String with length of 1.	5	Yes
Customer IP Country	i-t-1-3_customer-ip-country	String with length of 1 to 3.	5	Yes
Card Issued Country	i-t-1-3_card-issued-country	String with length of 1 to 3.	5	Yes
Last two digits on the card	i-t-2-2_card-pan-last2	String of digits with length of 2.	5	Yes
First six digits on the card	i-t-6-6_card-pan-first6	String of digits with length of 6.	5	Yes
Token	s-t-1-256_token-two-way	String with length of 1 to 256.	5	Yes
Card Product	s-t-1-8_card-product	String with length of 1 to 8.	5	Yes

2.3.12 Get Payment Status (get-payment-status)

Operation for getting payment status.

2.3.12.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Payment Method Code	s-f-1-30_payment-method-code	String with length of 1-30 characters.	3	No
Transaction Number	i-f-1-20_transaction-number	Integer value formatted as string with 1-20 numeric characters.	3	No

2.3.12.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Transaction Number	i-f-1-20_transaction-number	Integer value formatted as string with 1-20 numeric characters.	3	No
Payment Method Code	s-f-1-30_payment-method-code	String with length of 1-30 characters.	3	No
Order Number	s-f-1-36_order-number	String with length of 1-36 characters.	3	No
Order Timestamp	t-f-14-19_order-timestamp	yyyy-MM-dd HH:mm:ss	3	No
Order Currency Code	i-f-1-3_order-currency-code	String with length of 1-3 numeric characters.	3	No
Order Gross Amount	i-f-1-20_order-gross-amount	Long integer value formatted as string with 1-20 numeric characters.	3	No
Payment Status Code	s-f-1-30_payment-status-code	String with length of 1-30 characters.	3	No
Reference Number	s-f-1-20_reference-number	String with length of 1-20 characters.	3	Yes

2.3.12.3 Payment Status Codes

Card Payment Status Codes

Status Code	Description
committed	Card payment commitment has been captured and committed
settled	Card payment has been settled by acquiring Bank
verified	Card payment has been verified
refunded	Card payment has been refunded
authorized	Card payment has been authorized
cancelled	Card payment has been cancelled
subscribed	Card payment is used for creating a subscription

Invoice Payment Status Codes

Status Code	Description
committed	Invoice payment commitment has been received
settled	Invoice payment has been settled by acquiring Bank
verified	Invoice payment has been verified
refunded	Invoice payment has been refunded
initiated	Invoice payment commitment has not been received
cancelled	Invoice payment has been cancelled

Electronic Payment Status Codes

Status Code	Description
committed	Electronic payment commitment has been received
settled	Electronic payment has been settled by acquiring Bank
verified	Electronic payment has been verified
refunded	Electronic payment has been refunded
initiated	Electronic payment commitment has not been received

2.3.13 List Transaction Numbers (list-transaction-numbers)

2.3.13.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Order Number	s-f-1-36_order-number	String with length of 1-36 characters.	3	No

2.3.13.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Transaction Number	l-f-1-20_transaction-number-<N>	Integer value formatted as string with 1-20 numeric characters.	3	No
Payment Method Code	s-f-1-30_payment-method-code-<N>	String with length of 1-30 characters.	3	No

2.3.14 Save Card Payment Method (save-card-payment-method)

Operation for saving payment method. Must not and cannot be used without separate agreement with Verifone.

2.3.14.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Buyer First Name	s-f-1-30_buyer-first-name	String with length of 1-30 characters.	3	No
Buyer Last Name	s-f-1-30_buyer-last-name	String with length of 1-30 characters.	3	No
Buyer Phone Number	s-t-1-30_buyer-phone-number	String with length of 0, 1-30 characters.	3	Yes
Buyer Email Address	s-f-1-100_buyer-email-address	String with length of 1-30 characters.	3	No
Buyer External Identifier	s-t-1-255_buyer-external-id	String with length of 1-255 characters.	3	Yes
Delivery Address Line #1	s-t-1-30_delivery-address-line-one	String with length of 0, 1-30 characters.	3	Yes
Delivery Address Line #2	s-t-1-30_delivery-address-line-two	String with length of 0, 1-30 characters.	3	Yes
Delivery Address Line #3	s-t-1-30_delivery-address-line-three	String with length of 0, 1-30 characters.	3	Yes
Delivery Address City	s-t-1-30_delivery-address-city	String with length of 0, 1-30 characters.	3	Yes
Delivery Address Postal Code	s-t-1-30_delivery-address-postal-code	String with length of 0,1-30 characters.	3	Yes
Delivery Address Country Code	i-t-1-3_delivery-address-country-code	String with length of 0,1-3 characters.	3	Yes
Payment Method Code	s-f-1-30_payment-method-code	String with length of 1-30 characters.	3	No
Encrypted card details	s-f-256-512_encrypted-card-details	String with length of 256-512 characters.	3	No
Register Token	i-t-1-1_register-token	Integer with value 0 or 1.	3	Yes
Token scope	i-t-1-1_token-scope	Integer with value 1, 2, 3	5	Yes
Token Extra Info	i-t-1-1_token-extra-info	Integer with value 0 or 1	5	Yes

2.3.14.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Payment Method Code	s-f-1-30_payment-method-code	String with length of 1-30 characters.	3	No
Payment Method ID	i-t-1-20_payment-method-id	Long integer value formatted as string with 1-20 numeric characters.	3	No
Payment Method Title	s-t-1-30_payment-method-title	String with length of 1-30 characters.	3	No
Token	s-t-1-256_token	String with length of 0 or 1-256 characters.	3	Yes
Token Expiration Date	s-t-10-10_token-expiration-date	yyyy-MM-dd	5	Yes
Masked PAN	s-t-1-36_token-masked-pan	String with length of 0 or 1-36 characters.	5	Yes

2.3.15 Save Token (save-token)

Operation for saving a token for a card.

2.3.15.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Payment Method Code	s-f-1-30_payment-method-code	String with length of 1-30 characters.	5	No
Encrypted card details	s-f-256-512_encrypted-card-details	String with length of 256-512 characters.	5	No
Service Code	s-t-1-36_service-code	String with length of 1-36 characters.	5	Yes
Token scope	i-t-1-1_token-scope	Integer with value 1, 2, 3.	5	Yes
Bill to address first name	s-t-1-30_bill-to-address-first-name	String with length of 1-36 characters.	5	Yes
Bill to address last name	s-t-1-30_bill-to-address-last-name	String with length of 1-30 characters.	5	Yes
Bill to address line one	s-t-1-30_bill-to-address-line-one	String with length of 1-30 characters.	5	Yes
Bill to address line two	s-t-1-30_bill-to-address-line-two	String with length of 1-30 characters.	5	Yes
Bill to address line three	s-t-1-30_bill-to-address-line-three	String with length of 1-30 characters.	5	Yes
Bill to address postal code	s-t-1-30_bill-to-address-postal-code	String with length of 1-30 characters.	5	Yes
Request extra token info	i-t-1-1_token-extra-info	Integer with value 0 or 1.	5	Yes

2.3.15.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Token	s-t-1-256_token	String with length of 0 or 1-256 characters.	5	Yes
Token expiration date	s-t-10-10_token-expiration-date	yyyy-MM-dd	5	Yes
Masked pan	s-t-1-36_token-masked-pan	String with length of 0 or 1-36 characters.	5	Yes

2.3.16 Get Token (get-token)

Operation for getting an existing token associated to a card.

2.3.16.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Payment Method Code	s-f-1-30_payment-method-code	String with length of 1-30 characters.	5	No
Encrypted card details	s-f-256-512_encrypted-card-details	String with length of 256-512 characters.	5	No
Service Code	s-t-1-36_service-code	String with length of 1-36 characters.	5	Yes
Token Scope	i-t-1-1_token-scope	Integer with value 1, 2, 3.	5	Yes
Bill to address first name	s-t-1-30_bill-to-address-first-name	String with length of 1-36 characters.	5	Yes
Bill to address last name	s-t-1-30_bill-to-address-last-name	String with length of 1-30 characters.	5	Yes
Bill to address line one	s-t-1-30_bill-to-address-line-one	String with length of 1-30 characters.	5	Yes
Bill to address line two	s-t-1-30_bill-to-address-line-two	String with length of 1-30 characters.	5	Yes
Bill to address line three	s-t-1-30_bill-to-address-line-three	String with length of 1-30 characters.	5	Yes
Bill to address postal code	s-t-1-30_bill-to-address-postal-code	String with length of 1-30 characters.	5	Yes
Extra Token Info	i-t-1-1_token-extra-info	Integer with value 0 or 1.	5	Yes

2.3.16.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Token	s-t-1-256_token	String with length of 0 or 1-256 characters.	5	Yes
Token expiration date	s-t-10-10_token-expiration-date	yyyy-MM-dd	5	Yes
Masked pan	s-t-1-36_token-masked-pan	String with length of 0 or 1-36 characters.	5	Yes

2.3.17 Delete Token (delete-token)

Operation for deleting an existing token associated to a card.

2.3.17.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Payment Method Code	s-f-1-30_payment-method-code	String with length of 1-30 characters.	5	No
Token	s-f-1-256_token	String with length of 1-256 characters.	5	No
Service Code	s-t-1-36_service-code	String with length of 1-36 characters.	5	Yes
Token Scope	i-t-1-1_token-scope	Integer with value 1, 2, 3	5	Yes

2.3.17.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Remove Count	i-t-1-10_removed-count	Integer value formatted as string with 1-10 numeric characters.	5	Yes

2.3.18 Generate payment link (generate-payment-link)

Operation for generating a new payment link.

2.3.18.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Payment Locale	locale-f-2-5_payment-locale	String with length of 2-5 characters.	5	No
Order Expiration Timestamp	t-f-14-19_order-expiry-timestamp	yyyy-MM-dd HH:mm:ss	5	No
Order Number	s-f-1-36_order-number	String with length of 1-36 characters.	5	No
Order Timestamp	t-f-14-19_order-timestamp	yyyy-MM-dd HH:mm:ss	5	No
Order Note	s-t-1-36_order-note	String with length of 0 or 1-36 characters.	5	Yes
Order Currency Code	i-f-1-3_order-currency-code	String with length of 1-3 Numeric characters.	5	No
Order Gross Amount	l-f-1-20_order-gross-amount	Long integer value formatted as string with 1-20 numeric characters.	5	No
Order Net Amount	l-f-1-20_order-net-amount	Long integer value formatted as string with 1-20 numeric characters.	5	No
Order Vat amount	l-f-1-20_order-vat-amount	Long integer value formatted as string with 1-20 numeric characters.	5	No
Payment Method Code	s-t-1-30_payment-method-code-<N>	String with length of 1-30 characters.	5	Yes
Payment link number	s-t-1-36_payment-link-number	String with length of 1-36 characters.	5	Yes
Payment link delivery mode	s-f-1-32_payment-link-delivery-mode	String with length of 1-32 characters	5	No
Buyer First Name	s-f-1-30_buyer-first-name	String with length of 1-30 characters	5	No
Buyer Last Name	s-f-1-30_buyer-last-name	String with length of 1-30 characters.	5	No
Buyer Phone Number	s-t-1-30_buyer-phone-number	String with length of 0, 1-30 characters.	5	Yes
Buyer Email Address	s-f-1-100_buyer-email-address	String with length of 1-100 characters.	5	No
Buyer External Identifier	s-t-1-255_buyer-external-id	String with length of 1-255 characters.	5	Yes
Delivery Address Line #1	s-t-1-30_delivery-address-line-one	String with length of 0,1-30 characters.	5	Yes
Delivery Address Line #2	s-t-1-30_delivery-address-line-two	String with length of 0,1-30 characters.	5	Yes
Delivery Address Line #3	s-t-1-30_delivery-address-line-three	String with length of 0,1-30 characters.	5	Yes
Delivery Address City	s-t-1-30_delivery-address-city	String with length of 0,1-30 characters.	5	Yes
Delivery Address Postal Code	s-t-1-30_delivery-address-postal-code	String with length of 0,1-30 characters.	5	Yes
Delivery Address Country Code	i-t-1-3_delivery-address-country-code	String with length of 0,1-3 characters.	5	Yes
Saved Payment Method ID	l-t-1-20_saved-payment-method-id	Long integer value formatted as string with 1-20 numeric characters.	5	Yes
Deferred Payment	i-t-1-1_deferred-payment	Integer with value 0 or 1.	5	Yes
Additional delivery text	s-t-1-160_additional-delivery-text	String with length 1-160	5	Yes
Sender email	s-t-1-128_sender-email	String with length 1-128	5	Yes
Payment Link Number	s-t-1-36_payment-link-number	String with length of 1-36 characters.	5	Yes

0-50 basket items supported

Item Name	s-t-1-30_bi-name-<N>	String with length of 1-30 characters.	3	Yes
Item Unit Cost	l-t-1-20_bi-unit-cost-<N>	Long integer value formatted as string with 1-20 numeric characters. Must not be present if unit gross cost is used. Must be filled if unit gross cost is not filled. Must not be filled if it is.	3	Yes
Item Unit Gross Cost	l-t-1-20_bi-unit-gross-cost-<N>	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.	3	Yes
Item Unit Count	i-t-1-11_bi-unit-count-<N>	Integer value formatted as string with 1-11 numeric characters.	3	Yes
Item Gross Amount	l-t-1-20_bi-gross-amount-<N>	Long integer value formatted as string with 1-20 numeric characters.	3	Yes
Item Net Amount	l-t-1-20_bi-net-amount-<N>	Long integer value formatted as string with 1-20 numeric characters.	3	Yes
Item VAT Percentage	i-t-1-4_bi-vat-percentage-<N>	Integer formatted as string with 0,1-4 numeric characters	3	Yes
Item Discount Percentage	i-t-1-4_bi-discount-percentage-<N>	Integer formatted as string with 0,1-4 numeric characters	3	Yes

2.3.18.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Payment Link Number	s-t-1-36_payment-link-number	String with length of 1-36 characters.	5	Yes

2.3.19 Get Payment Link Status (get-payment-link-status)

Operation for getting payment status.

2.3.19.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Payment link number	s-t-1-36_payment-link-number	String with length of 1-36 characters.	5	No

2.3.19.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Payment Link Number	s-t-1-36_payment-link-number	String with length of 1-36 characters.	5	No
Payment link status	t-f-14-19_order-expiry-timestamp	String with length of 1-36 characters.	5	No
Order Expiry Timestamp	t-f-14-19_order-expiry-timestamp	yyyy-MM-dd HH:mm:ss	5	Yes
Payment timestamp	t-f-14-19_payment-timestamp	yyyy-MM-dd HH:mm:ss	5	Yes

2.3.20 Reactivate Payment Link (reactivate-payment-link)

Operation for reactivating payment link.

2.3.20.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Payment link number	s-t-1-36_payment-link-number	String with length of 1-36 characters.	5	No
Order expiration time stamp	t-f-14-19_order-expiry-timestamp	yyyy-MM-dd HH:mm:ss	5	No

2.3.20.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Payment link Number	s-t-1-36_payment-link-number	String with length of 1-36 characters.	5	No

2.3.21 Swish Payment (process payment)

Operation for Swish Payment.

2.3.21.1 Additional Request Fields

Title	Parameter Name	Format	Version	Optional
Order Currency Code	i-f-1-3_order-currency-code	String with length of 1-3 numeric characters.	5	No
Delivery Address Country Code	i-t-1-3_delivery-address-country-code	String with length of 0,1-3 characters.	5	Yes
Order Gross Amount	l-f-1-20_order-gross-amount	64 bit signed integer value formatted as a string with 1-20 numeric characters.	5	No
Saved Payment Method ID	l-f-1-20_saved-payment-method-id	64 bit signed integer value formatted as a string with 1-20 numeric characters.	5	Yes
Item Gross Amount	l-t-1-20_bi-gross-amount	64 bit signed integer value formatted as a string with 1-20 numeric characters.	5	Yes
Locale	locale-f-2-5_payment-locale	String with length of 2-5 characters.	5	No
Buyer Email Address	s-f-1-100_buyer-email-address	String with length of 1-100 characters.	5	No
Buyer First Name	s-f-1-30_buyer-first-name	String with length of 1-30 characters.	5	No
Buyer Last Name	s-f-1-30_buyer-last-name	String with length of 1-30 characters.	5	No
Payment Method Code	s-f-1-30_payment-method-code	swish	5	No
Order Number	s-f-1-36_order-number	String with length of 1-36 characters.	5	No
Buyer External ID	s-t-1-255_buyer-external-id	String with length of 1-255 characters.	5	Yes
Buyer Phone Number	s-t-1-30_buyer-phone-number	String with length of 0, 1-30 characters.	5	Yes
Delivery Address City	s-t-1-30_delivery-address-city	Delivery Address City	5	Yes
Delivery Address Line #1	s-t-1-30_delivery-address-line-one	String with length of 0, 1-30 characters.	5	Yes
Delivery Address Postal Code	s-t-1-30_delivery-address-postal-code	String with length of 0, 1-30 characters.	5	Yes
Order Note	s-t-1-36_order-note	String with length of 0 or 1-36 characters.	5	Yes
Card Security Code	s-t-1-4_card-security-code	String with length of 1-4 characters.	5	Yes
Order Timestamp	t-f-14-19_order-timestamp	yyyy-MM-dd HH:mm:ss	5	No
Payment Timestamp	t-f-14-19_payment-timestamp	yyyy-MM-dd HH:mm:ss	5	No

0-50 basket items supported and they are only viewed to user as reminder of what the order contains.

Title	Parameter Name	Format	Version	Optional
Item Name	s-t-1-30_bi-name-<N>	String with length of 1-30 characters.	Yes	5
Item Unit Cost	l-t-1-20_bi-unit-cost-<N>	64 bit signed integer value formatted as a string with 1-20 numeric characters. Must not be present if unit gross cost is used. Must be filled if unit gross cost is not filled. Must not be filled if it is.	Yes	5
Item VAT Percentage	i-t-1-4_bi-vat-percentage	Integer formatted as string with 0, 1-4 numeric characters	Yes	5
Item Unit Count	i-t-1-11_bi-unit-count-<N>	N> Integer value formatted as string with 1-11 numeric characters.	Yes	5
Item Gross Amount	l-t-1-20_bi-gross-amount-<N>	64 bit signed integer value formatted as a string with 1-20 numeric characters.	Yes	5
Item Net Amount	l-t-1-20_bi-net-amount-<N>	64 bit signed integer value formatted as a string with 1-20 numeric characters.	Yes	5
Item Discount Percentage	i-t-1-4_bi-discount-percentage-<N>	Integer formatted as string with 0, 1-4 numeric characters	Yes	5

2.3.21.2 Additional Response Fields

Title	Parameter Name	Format	Version	Optional
Transaction Number	l-f-1-20_transaction-number	Integer value formatted as string with 1-20 numeric characters.	5	No
Payment Method Code	s-f-1-30_payment-status-code	String with length of 1-30 characters.	5	No

3 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 successful.
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.

Error Code	Description
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-0-or-1	partial capture 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-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-invalid-missing-parameters	channel mode invalid missing parameters
channel-mode-invalid-product-number-input	channel mode invalid product number input
subscription-expected-period	subscription expected period
invalid-subscription-end	invalid subscription end
validation-error-unknown-parameter-type	validation error unknown parameter type
subscription-expected-period	subscription expected period
invalid-subscription-end	invalid subscription end
channel-mode-invalid-missing-parameters	channel mode invalid missing parameters
channel-mode-invalid-product-number-input	channel mode invalid product number input

Operation related error codes.

Error Code	Description
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-version	not supported by interface version
unsupported-authorization-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

4 Usage

4.1 Service Agreement

Service agreement is required for using the server interface. The service agreement can be acquired through Verifone sales:

Sweden

Email: avtalsgruppen@verifone.se

4.2 Technical Support

Technical support for integration is available through Verifone customer support:

Sweden

Email: ecom-integration@verifone.se

4.3 Exchanging Keys

Customer generates 1024 bit long RSA private key - public key pair (or self-signed X.509 certificate) and delivers the public key in PEM format (or certificate in .cer format) to Verifone via TCS Client.

Customer can use `verifone-key-pair-generator.jar` to generate the keys. The key pair generator is provided in the integration kit. The key pair generator will generate public key PEM-file, unencrypted private key PEM-file and P12-file containing both public key and encrypted private key.

```
java -jar verifone-key-pair-generator.jar
```

Verifone delivers Verifone E-Commerce System public key to customer via Verifone TCS reporting service.

4.4 Implementation

It is important to do the following checks on the responses:

- s-f-1-30_operation matches to request.
- s-t-256-256_signature-one or/and s-t-256-256_signature-two are valid.
- s-f-1-30_error-message is empty (otherwise it means that the operation failed)
- l-f-1-20_request-id (it is also important to use unique ids in requests)

The above checks are necessary to check that the response is done by Verifone and that the operation is successful and its integrity is guaranteed. It is strongly advisable to include additional checks, such as checking the format and contents of all response columns and values that are known to the web shop.

4.5 Testing

It is recommended to test the implementation first in customer test environment with demo merchant keys. The demo merchant agreement code is 'demo-merchant-agreement'. The demo keys are provided in the integration kit.

Customer test environment is available in the following URL:

<https://epayment.test.point.fi/pw/serverinterface>

4.6 Production

Production environment URLs are:

Sweden

Node 1: <https://epayment1.point.se/pw/serverinterface>

Node 2: <https://epayment2.point.se/pw/serverinterface>

Node 3: <https://epayment3.point.se/pw/serverinterface>