PAYFORT

Merchant Integration Guide

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Contents

1. FORT in a Glimpse

FORT is a payment gateway; an e-commerce application service provider that authorizes credit card payments for e-businesses and Merchants with payment-enabled websites. This enables your customers to make easy, quick, and secure payments at the push of a button.

FORT is designed in a user-friendly manner with an appealing interface that makes the Merchant's integration process as easy and efficient as the service provided itself.

2. About this Document

This document describes the protocols, parameters, and technical environment provided by PayFort for Merchants who will integrate with our solution.

2.1 Intended Audience

This document was created for Merchants, and basically their developers and technical teams who will integrate with our solution and implement it on the Merchant's system.

3. Request/ Response Value Type

Field Types	Description
Alpha	This type of fields only accepts alphabetical characters; i.e. from (**A**-**a**) to (**Z**-**z**).
Alphanumeric	This field contains a combination of alphabetic (**A**-**a**) to (**Z**-**z**), numeric values (**0**-**9**), and special characters based on the parameter specifications.
Numeric	This field type represents numeric values; only characters in the range from **0** to **9**.

4. Redirection

Operations that help the Merchant to complete the payment process. The **Authorization** operation hold an amount from the Customer's credit card account for a period of time until the Merchant capture or void the transaction. If no capture or void was processed during this period, the transaction will be voided automatically. In **Purchase** you will send one single request in order to authorize and capture the transaction amount.

We offer the Merchant to **Redirect** the Customer from his website to PayFort's gateway page to fill out his credit card details during these operations.

4.1 Authorization/ Purchase URLs

Test Environment URL
https://sbcheckout.PayFort.com/FortAPI/paymentPage

Production Environment URL
https://checkout.PayFort.com/FortAPI/paymentPage

4.2 Parameters Submission Type

HTTPs Form Post Request.

```
<form method="post" action="https://sbcheckout.PayFort.com/FortAPI/paymentPage" id="form1" name="form1"></form>
```

4.3 Authorization/ Purchase – Request

Include the following parameters in the Request you will send to PayFort:

Authorization/ Purchase Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
command	Alpha	Yes	Command.	20		- AUTHORIZATION - PURCHASE	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number.	40	- _ .		XYZ9239-yu898

amount	Numeric	Yes	The transaction's amount. *Each currency has predefined allowed decimal points that should be taken into consideration when sending the amount.	10			10000
currency	Alpha	Yes	The currency of the transaction's amount in ISO code 3.	3			AED
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
customer_email	Alphanumeric	Yes	The customer's email.	254	_ - . @		customer@domain.com
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
token_name	Alphanumeric	No	The Token received from the Tokenization process.	100	. @ - _		Op9Vmp
payment_option	Alpha	No	Payment option.	10		- MASTERCARD - VISA - AMEX - SADAD (for Purchase operations only)	

						- NAPS (for Purchase operations only) - KNET (for Purchase operations only)	
sadad_olp	Alphanumeric	No	SADAD Online Payment ID Alias. The merchant sends this value if the OLP ID is collected on the merchant checkout.	12	@ . –		SABBP2P_UAT2
eci	Alpha	No	E-commerce indicator. *MOTO and E-commerce indicator clickable in VISA, MASTERCARD and AMEX.	16		- ECOMMERCE - MOTO	
order_description	Alphanumeric	No	It holds the description of the order.	150	# ' / . _ - : $ **Space**		iPhone 6-S
customer_ip	Alphanumeric	No	It holds the customer's IP address. *We support IPv4 and IPv6 as shown in the example on the right hand side.	45	. :		**IPv4**→192.178.1.10 **IPv6**→2001:0db8:3042:0002:5a55:caff:fef6:bdbf
customer_name	Alpha	No	The customer's name.	40	_ \ / - . '		John Smith

					Space		
merchant_extra	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	999	. ; / _ - , ' @		JohnSmith
merchant_extra1	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / _ - , ' @		JohnSmith
merchant_extra2	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / _ - , ' @		JohnSmith
merchant_extra3	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / _ - , ' @		JohnSmith
merchant_extra4	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / _ - , ' @		JohnSmith
remember_me	Alpha	No	This parameter provides you	2		NO	

			with an indication to whether to save this token for the user based on the user selection.				
phone_number	Numeric	No	The customer's phone number.	19	+ -		0096279721 9966
settlement_reference	Alphanumeric	No	The Merchant submits this value to the FORT. The value is then passed to the Acquiring bank and displayed to the merchant in the Acquirer settlement file.	34	- _ .		XYZ9239-yu898
return_url	Alphanumeric	No	The URL of the Merchant's page to be displayed to the customer when the order is processed.	400	$! = ? # & _ - / : .		http://www.merchant.com

NOTE!

Before sending the amount value of any transaction, you have to multiply the value with the currency decimal code according to ISO code 3.

For example: If the amount value was 500 AED; according to ISO code 3, you should multiply the value with 100 (2 decimal points); so it will be sent in the request as 50000.

Another example: If the amount value was 100 JOD; according to ISO code 3, you should multiply the value with 1000 (3 decimal points); so it will be sent in the request as 100000.

4.4 Authorization/ Purchase – Response

The following parameters will be returned in PayFort's Response:

Authorization/ Purchase Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
command	Alpha	Command.	20	- AUTHORIZATION - PURCHASE	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ2939-yu898
amount	Numeric	The transaction's amount.	10		10000
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		AED
language	Alpha	The checkout page and messages language.	2	- en - ar	
customer_email	Alphanumeric	The customer's email.	254		customer@domain.com
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
token_name	Alphanumeric	The Token received from the Tokenization process.	100		Op9Vmp
fort_id	Numeric	The order's unique reference returned by our system.	20		149295435400084008
payment_option	Alpha	Payment option.	10	- MASTERCARD - VISA - AMEX - SADAD (for Purchase operations only) - NAPS (for Purchase operations only) - KNET (for Purchase operations only)	
sadad_olp	Alphanumeric	SADAD Online Payment ID Alias.	12		SABBP2P_UAT2

eci	Alpha	E-commerce indicator.	16	- ECOMMERCE - MOTO	
order_description	Alphanumeric	It holds the description of the order.	150		iPhone 6-S
customer_ip	Alphanumeric	It holds the customer's IP address. *We support IPv4 and IPv6 as shown in the example on the right hand side.	45		**IPv4**→192.178.1.10 **IPv6**→2001:0db8:3042:0002:5a55:caff:fef6:bdbf
customer_name	Alpha	The customer's name.	40		John Smith
merchant_extra	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	999		JohnSmith
merchant_extra1	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra2	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra3	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra4	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
authorization_code	Alphanumeric	The authorization code returned from the 3rd party.	100		P1000000000000372136
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages).	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064

status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	
card_holder_name	Alpha	The card holder name.	50		John Smith
expiry_date	Numeric	The card's expiry date.	4		2105
card_number	Numeric	The clear credit card's number.	16		400555******0001
remember_me	Alpha	This parameter provides you with an indication to whether to save this token for the user based on the user selection.	2	NO	
phone_number	Numeric	The customer's phone number.	19		00962797219966
settlement_reference	Alphanumeric	The Merchant submits this value to the FORT. The value is then passed to the Acquiring bank and displayed to the merchant in the Acquirer settlement file.	34		XYZ9239-yu898

NOTE!

Please refer to section Transaction's Response Codes for more details about operations' statuses.

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

5. Maintenance Operations

Maintenance Operations are operations exist on the authorized amount ONLY. The following sections illustrate the maintenance operations:

5.1 Capture Operation

An operation that allows the Merchant to **capture** the authorized amount to his account. The capture could be partial or full depends on the Merchant requirements and request.

5.1.1 Capture Operation URLs

Test Environment URL
https://sbpaymentservices.PayFort.com/FortAPI/paymentApi

Production Environment URL
https://paymentservices.PayFort.com/FortAPI/paymentApi

5.1.2 Parameters Submission Type

REST POST request using JSON.

5.1.3 Capture Operation – Request

Include the following parameters in the Request you will send to PayFort:

Capture Operation Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
command	Alpha	Yes	Command.	20		CAPTURE	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number. *You have the option to send "fort_id" instead of "merchant_reference", or you can send them BOTH.	40	- _ .		XYZ9239-yu898

amount	Numeric	Yes	The transaction's amount. *Each currency has predefined allowed decimal points that should be taken into consideration when sending the amount.	10			10000
currency	Alpha	Yes	The currency of the transaction's amount in ISO code 3.	3			AED
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
fort_id	Numeric	No	The order's unique reference returned by our system.	20			149295435400084008
order_description	Alphanumeric	No	It holds the description of the order.	150	# ' / . _ - : $ **Space**		iPhone 6-S

NOTE!
You can send "merchant_reference" and/ or "fort_id" in the CAPTURE request.

NOTE!
Before sending the amount value of any transaction, you have to multiply the value with the currency decimal code according to ISO code 3.

For example: If the amount value was 500 AED; according to ISO code 3, you should multiply the value with 100 (2 decimal points); so it will be sent in the request as 50000.

Another example: If the amount value was 100 JOD; according to ISO code 3, you should multiply the value with 1000 (3 decimal points); so it will be sent in the request as 100000.

5.1.4 Capture Operation – Response

The following parameters will be returned in PayFort's Response:

Capture Operation Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
command	Alpha	Command.	20	CAPTURE	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ9239-yu898
amount	Numeric	The transaction's amount.	10		10000
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		AED
language	Alpha	The checkout page and messages language.	2	- en - ar	
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
fort_id	Numeric	The order's unique reference returned by our system.	20		149295435400084008
order_description	Alphanumeric	It holds the description of the order.	150		iPhone 6-S
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages).	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	

NOTE!

Please refer to section Transaction's Response Codes for more details about operations' statuses.

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

5.2 Void-Authorization Operation

An operation that allows the Merchant to **cancel** the payment request AFTER being authorized.

5.2.1 Void-Authorized Operation URLs

Test Environment URL
https://sbpaymentservices.PayFort.com/FortAPI/paymentApi

Production Environment URL
https://paymentservices.PayFort.com/FortAPI/paymentApi

5.2.2 Parameters Submission Type

REST POST request using JSON.

5.2.3 Void-Authorization Operation – Request

Include the following parameters in the Request you will send to PayFort:

Void-Authorization Operation Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
command	Alpha	Yes	Command.	20	_	VOID_AUTHORIZATION	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number. *You have the option to send "fort_id" instead of "merchant_reference", or you can send them BOTH.	40	- _ .		XYZ9239-yu898
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer	200			7cad05f0212ed933c9a5d5dffa31

			to section Signature for more details).				661acf2c827a
fort_id	Numeric	No	The order's unique reference returned by our system.	20			149295435400084008
order_description	Alphanumeric	No	It holds the description of the order.	150	# ' / . _ - : $ **Space**		iPhone 6-S

NOTE!

You can send "merchant_reference" and/ or "fort_id" in the VOID_AUTHORIZATION request.

5.2.4 Void-Authorization Operation – Response

The following parameters will be returned in PayFort's Response:

Void-Authorization Operation Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
command	Alpha	Command.	20	VOID_AUTHORIZATION	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ9239-yu898
language	Alpha	The checkout page and messages language.	2	- en - ar	
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
fort_id	Numeric	The order's unique reference returned by our system.	20		149295435400084008
order_description	Alphanumeric	It holds the description of the order.	150		iPhone 6-S

response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages).	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

5.3 Refund Operation

An operation that **returns** the entire amount of a transaction or part of it AFTER being captured.

5.3.1 Refund Operation URLs

Test Environment URL
https://sbpaymentservices.PayFort.com/FortAPI/paymentApi

Production Environment URL
https://paymentservices.PayFort.com/FortAPI/paymentApi

5.3.2 Parameters Submission Type

REST POST request using JSON.

5.3.3 Refund Operation – Request

Include the following parameters in the Request you will send to PayFort:

Refund Operation Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
command	Alpha	Yes	Command.	20		REFUND	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number. *You have the option to send "fort_id" instead of "merchant_reference", or you can send them BOTH.	40	- _ .		XYZ9239-yu898
amount	Numeric	Yes	The transaction's amount. *Each currency has predefined allowed decimal points that should be taken into consideration when sending the amount.	10			10000
currency	Alpha	Yes	The currency of the transaction's amount in ISO code 3.	3			AED
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
fort_id	Numeric	No	The order's unique reference returned by our system.	20			149295435400084008
order_description	Alphanumeric	No	It holds the description of the order.	150	# ' / . _ - :		iPhone 6-S

					$ **Space**		

NOTE!

You can send "merchant_reference" and/ or "fort_id" in the Refund request.

NOTE!

Before sending the amount value of any transaction, you have to multiply the value with the currency decimal code according to ISO code 3.

For example: If the amount value was 500 AED; according to ISO code 3, you should multiply the value with 100 (2 decimal points); so it will be sent in the request as 50000.

Another example: If the amount value was 100 JOD; according to ISO code 3, you should multiply the value with 1000 (3 decimal points); so it will be sent in the request as 100000.

5.3.4 Refund Operation – Response

The following parameters will be returned in PayFort's Response:

Refund Operation Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
command	Alpha	Command.	20	REFUND	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ9239-yu898
amount	Numeric	The transaction's amount.	10		10000
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		AED
language	Alpha	The checkout page and messages language.	2	- en - ar	
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a

fort_id	Numeric	The order's unique reference returned by our system.	20		149295435400084008
order_description	Alphanumeric	It holds the description of the order.	150		iPhone 6-S
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages).	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	

NOTE!
Please refer to section Transaction's Response Codes for more details about operations' statuses.

NOTE!
Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

6. Merchant Page

This integration type allows Merchants to accept the Customer's payments in their websites by collecting their credit card information using a PayFort inline frame (iframe). PayFort processes the transaction and returns the results back to the merchants through invisible redirection.

6.1 Features

No customer redirection.

No PCI-Compliance needed.

A replica of your website appearance and payment flow.

6.2 How It Works - Overview

1. The Merchant page (payment details form) will appear to your Customer encapsulated inside an iframe that has the same look and feel of your website.
2. We then receive the payment details and send you confirmation to complete the transaction.

NOTE!

You have the option to redirect the Customer directly to the Merchant Page (payment details form).

6.3 Integration Flow

1. The Customer begins the checkout process on the Merchant's website.
2. The Merchant requests to display the Merchant Page (payment details form) encapsulated inside an iframe which has been themed as the Merchant website.
3. The Customer enters the card's details on the Merchant page.
4. PayFort checks the card details.
5. PayFort creates a token for the Customer transaction and sends it to the Merchant.
6. The Merchant then sends a JSON request along with the token to PayFort.
7. In case the Merchant receives from PayFort a 3-D Secure URL, and response indicating that a 3Ds check is required:
   a. The Merchant redirects the Customer to the ACS to check his card enrollment.
   b. The Customer enters authentication data on the ACS platform.
   c. The ACS performs authentication of the Customer's data and sends the authentication results to PayFort.

NOTE!

In this case, PayFort returns status "20: On hold" and message "064: 3-D Secure check requested". For example, PayFort is waiting for the Merchant to authenticate the Customer.

8. PayFort completes the operation based on the 3-D Secure response and returns the response to the Merchant.
9. PayFort sends the payment results to the Merchant.

NOTE!

- If the Merchant includes the “token_name” parameter in the request and this Token already has a successful authorization, then the card number (masked) and expiry date will be displayed in their allocated fields.

- If the Token is sent by the Merchant, it will be generated with the same name sent by the Merchant.

6.4 Merchant Page URLs

Test Environment URL
https://sbcheckout.PayFort.com/FortAPI/paymentPage

Production Environment URL
https://checkout.PayFort.com/FortAPI/paymentPage

6.5 Parameters Submission Type

HTTPs Form Post Request.

6.6 Merchant Page – Request

Include the following parameters in the Request you will send to PayFort:

Merchant Page Request Parameters							
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/ Expected Values	Example
service_command	Alpha	Yes	Command.	20		TOKENIZATION	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant’s	40	- _ .		XYZ9239-yu898

			unique order number.				
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
token_name	Alphanumeric	No	The token received from the Tokenization process.	100	. @ - _		Op9Vmp
return_url	Alphanumeric	No	The URL of the Merchant's page to be displayed to the customer when the order is processed.	400	$! = ? # & _ - / : .		http://www.merchant.com

6.7 Merchant Page – Response

The following parameters will be returned in PayFort's Response:

Merchant Page Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Command.	20	TOKENIZATION	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ9239-yu898
language	Alpha	The checkout page and messages language.	2	- en - ar	
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
token_name	Alphanumeric	The token received from the Tokenization process.	100		Op9Vmp
expiry_date	Numeric	The card's expiry date.	4		2105
card_number	Numeric	The clear credit card's number.	16		400555******0001
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages)	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	
card_bin	Numeric	The first 6 digits of the card number.	6		478773

return_url	Alphanumeric	The URL of the Merchant's page to be displayed to the customer when the order is processed.	400		http://www.merchant.com

NOTE!
Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

6.8 Merchant Page Operations

6.8.1 Merchant Page Operations URLs

Test Environment URL
https://sbpaymentservices.PayFort.com/FortAPI/paymentApi

Production Environment URL
https://paymentservices.PayFort.com/FortAPI/paymentApi

6.8.2 Parameters Submission Type

REST POST request using JSON.

6.8.3 Operation – Request

Include the following parameters in the Request you will send to PayFort:

Operation Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
command	Alpha	Yes	Command.	20		- AUTHORIZATION - PURCHASE	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number.	40	- _ .		XYZ9239-yu898

amount	Numeric	Yes	The transaction's amount. *Each currency has predefined allowed decimal points that should be taken into consideration when sending the amount.	10			10000
currency	Alpha	Yes	The currency of the transaction's amount in ISO code 3.	3			AED
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
customer_email	Alphanumeric	Yes	The customer's email.	254	_ - . @		customer@domain.com
token_name	Alphanumeric	Yes	The token received from the Tokenization process.	100	. @ - _		Op9Vmp
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
payment_option	Alpha	No	Payment option.	10		- MASTERCARD - VISA - AMEX	
eci	Alpha	No	Ecommerce indicator.	16		- ECOMMERCE - MOTO	
order_description	Alphanumeric	No	It holds the description of the order.	150	# ' / . _		iPhone 6-S

					- : $ **Space**		
card_security_code	Numeric	No	A security code for the card.	4			4567
customer_ip	Alphanumeric	No	It holds the customer's IP address. *It's Mandatory if the fraud service is active. *We support IPv4 and IPv6 as shown in the example on the right hand side.	45	. :		**IPv4**→192.178.1.10 **IPv6**→2001:0db8:3042:0002:5a55:caff:fef6:bdbf
customer_name	Alpha	No	The customer's name.	40	_ \ / - . ' **Space**		John Smith
merchant_extra	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	999	. ; / _ - , ' @		JohnSmith
merchant_extra1	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / _ - , ' @		JohnSmith
merchant_extra2	Alphanumeric	No	Extra data sent by merchant. Will be	250	. ; /		JohnSmith

			received and sent back as received. Will not be displayed in any report.		_ - , ' @		
merchant_extra3	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / _ - , ' @		JohnSmith
merchant_extra4	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / _ - , ' @		JohnSmith
remember_me	Alpha	No	This parameter provides you with an indication to whether to save this token for the user based on the user selection. *The Tokenization service **MUST** be activated in order to be able to send "remember_me" parameter.	3		- YES - NO	
phone_number	Numeric	No	The customer's phone number.	19	+ -		00962797219966
settlement_reference	Alphanumeric	No	The Merchant submits this value to the FORT. The value is then passed to the Acquiring bank and displayed	34	- _ .		XYZ9239-yu898

			to the merchant in the Acquirer settlement file.				
return_url	Alphanumeric	No	The URL of the Merchant's page to be displayed to the customer when the order is processed.	400	$! = ? # & _ - / : .		http://www.merchant.com

NOTE!

Before sending the amount value of any transaction, you have to multiply the value with the currency decimal code according to ISO code 3.

For example: If the amount value was 500 AED; according to ISO code 3, you should multiply the value with 100 (2 decimal points); so it will be sent in the request as 50000.

Another example: If the amount value was 100 JOD; according to ISO code 3, you should multiply the value with 1000 (3 decimal points); so it will be sent in the request as 100000.

6.8.4 Operation – Response

The following parameters will be returned in PayFort's Response:

Operation Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
command	Alpha	Command.	20	- AUTHORIZATION - PURCHASE	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ9239-yu898
amount	Numeric	The transaction's amount.	10		10000

currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		AED
language	Alpha	The checkout page and messages language.	2	- en - ar	
customer_email	Alphanumeric	The customer's email.	254		customer@domain.com
token_name	Alphanumeric	The token received from the Tokenization process.	100		Op9Vmp
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
fort_id	Numeric	The order's unique reference returned by our system.	20		149295435400084008
payment_option	Alpha	Payment option.	10	- MASTERCARD - VISA - AMEX	
eci	Alpha	E-commerce indicator.	16	- ECOMMERCE - MOTO	
order_description	Alphanumeric	It holds the description of the order.	150		iPhone 6-S
authorization_code	Alphanumeric	The authorization code returned from the 3rd party.	100		P1000000000000372136
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages).	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
customer_ip	Alphanumeric	It holds the customer's IP address. *We support IPv4 and IPv6 as shown in the example on the right hand side.	45		**IPv4**→192.178.1.10 **IPv6**→2001:0db8:3042:0002:5a55:caff:fef6:bdbf
customer_name	Alpha	The customer's name.	40		John Smith

merchant_extra	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	999		JohnSmith
merchant_extra1	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra2	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra3	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra4	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
expiry_date	Numeric	The card's expiry date.	4		2105
card_number	Numeric	The clear credit card's number.	16		400555******0001
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	
card_holder_name	Alpha	The card holder name.	50		John Smith
3ds_url	Alphanumeric	The URL where the Merchant redirects a customer whose card is 3-D Secure for authentication.	300		http://www.3dsecure.com
remember_me	Alpha	This parameter provides you with an indication to whether to save this token for the user based on the user selection.	3	-YES -NO	
phone_number	Numeric	The customer's phone number.	19		00962797219966
settlement_reference	Alphanumeric	The Merchant submits this value to the FORT. The value is then passed to the Acquiring bank and displayed to the merchant in the Acquirer settlement file.	34		XYZ9239-yu898

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

6.9 Merchant Page Customization

This is a list with all customizable CSS classes on the basic merchant page:

The **Wrapper** class: responsible for the total width of the form container and the background.

The **Container** class: responsible for the form's shape and width.

The **Popover** class: responsible for the error messages.

The **Half-container** class: used to merge the date and CVV fields into one block if needed.

The **Input** class: is the container of each single input field.

The **Pay** class: responsible for the submit button.

The **Visa/ MasterCard** classes: used to change the color of the Visa/ MasterCard colors.

NOTE!

- You can always create multiple theme files that will enable you to switch freely and easily between them when necessary.

- “Theme” files can be uploaded from the back-office using the Payment Page template screen.

Please refer to (Figure 1 & 2) that illustrate the area related to each of the classes mentioned above:

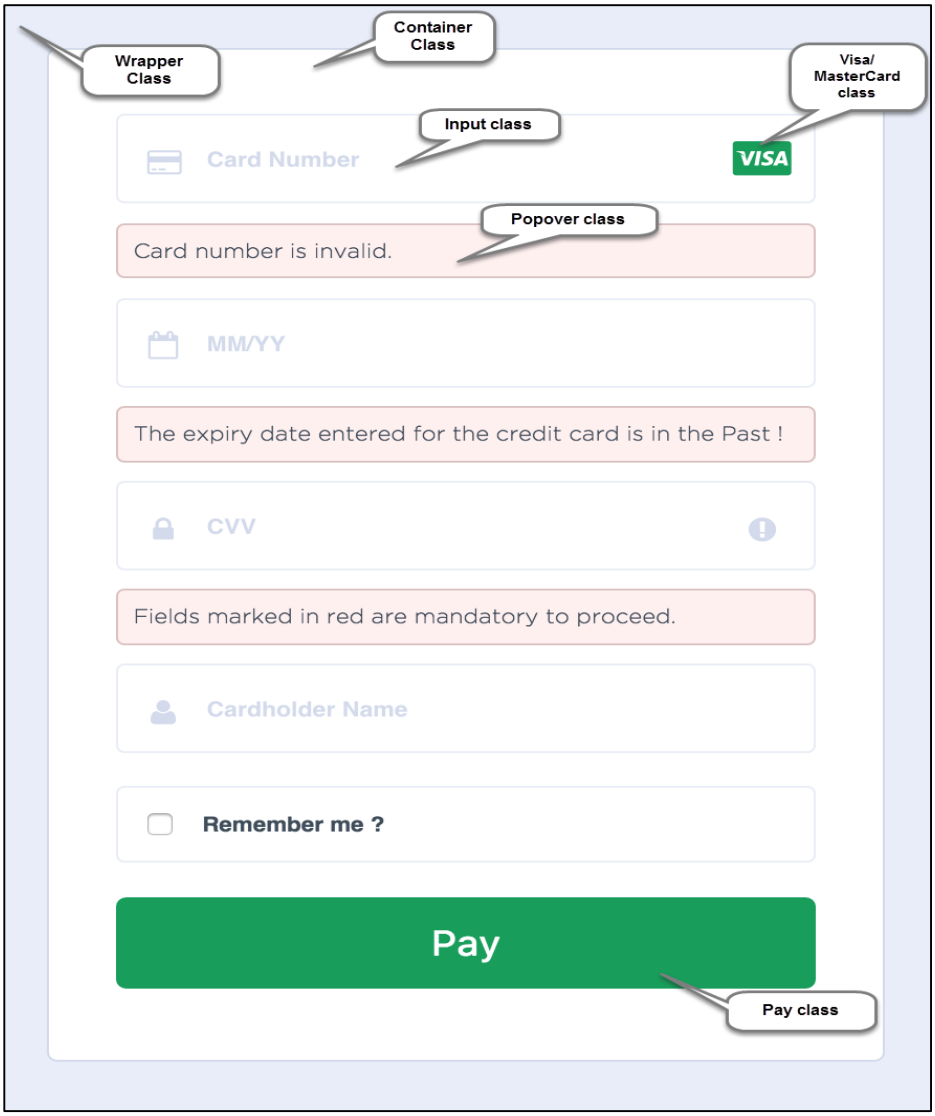

Figure 1: CSS Classes

Figure1 represents the default theme of the Merchant Page. However, it can still be customized and the below figure shows an example of a customization option where the date field and the CVV field have been merged on one row.

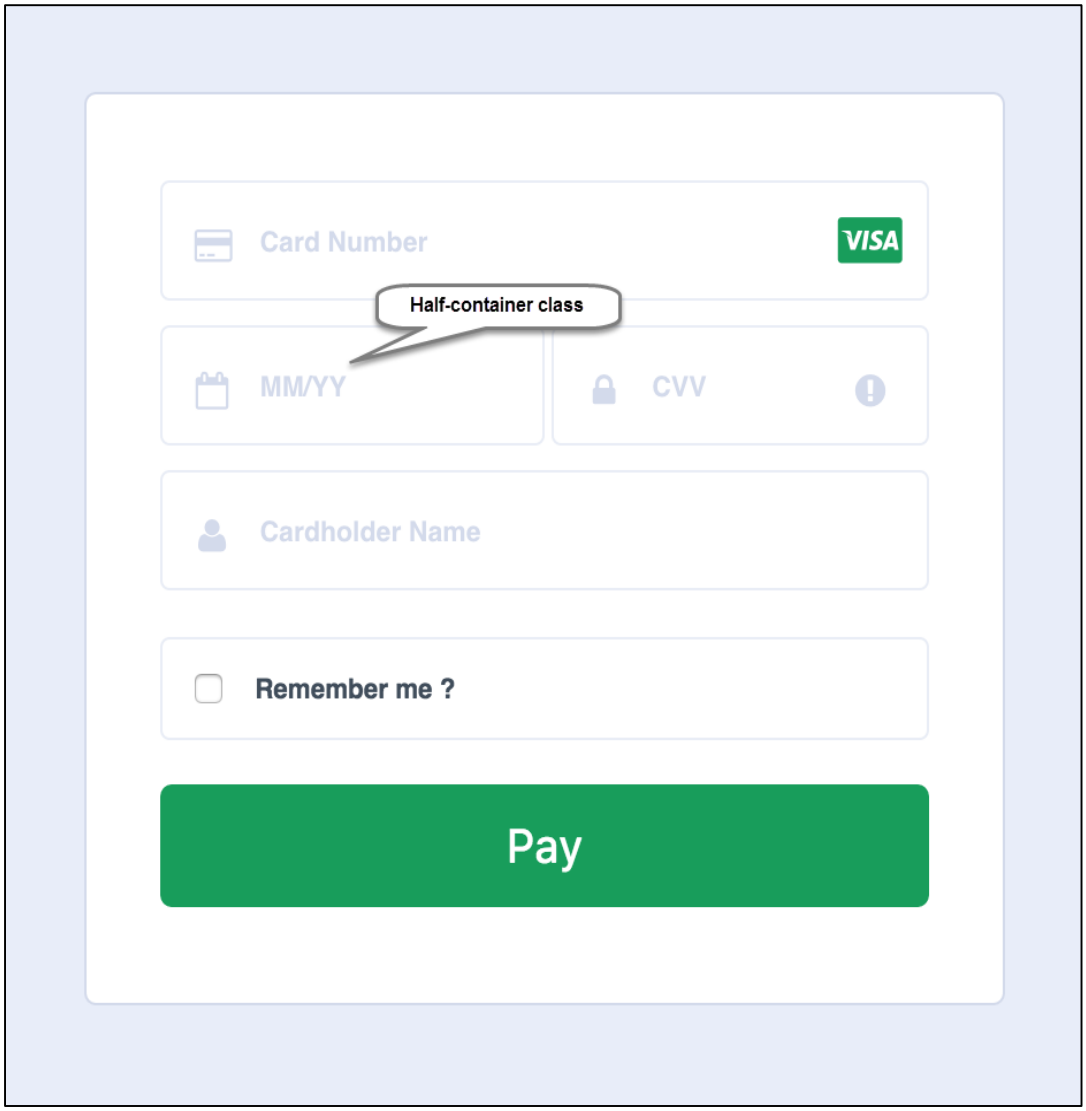

Figure 2: Customized Fields - Half-container Class

7. Merchant Page 2.0

This type of integration allows the Merchant to develop his own payment form that collects the card details. The card details are sent directly to PayFort and substituted with Token. The Merchant uses the Token created to complete the transaction.

7.1 Features

No customer redirection.

No PCI-Compliance needed.

A replica of your website appearance and payment flow.

7.2 How It Works - Overview

1. The Merchant develops the form that collects the card details (credit card number, expiry date, CVV), and sends the request to PayFort.
2. PayFort receives the payment details and sends the response that includes the Token to the Merchant.
3. The Merchant use it to complete the Authorization or Purchase operation.

NOTE!

The Merchant should develop a form that does not send data to his website but directly submits the form to PayFort.

7.3 Integration Flow

1. The Customer begins the checkout process on the Merchant's website.
2. The Merchant displays the form he developed to collect the card details.
3. The Customer enters the card's details on the Merchant form.
4. PayFort validates the card format.
5. PayFort creates a Token for the card details and sends it back to the Merchant.
6. The Merchant stores the Token and proceeds with the transaction.
7. The Merchant sends a payment request along with the Token to PayFort.
8. PayFort sends the Merchant the 3-D Secure URL, and response indicating that a check is required:
    a. The Merchant redirects the Customer to check his card enrollment.
    b. The Customer enters authentication data.
    c. 3-D Secure authentication is completed and PayFort receives the authentication results.

NOTE!

In this case, PayFort returns status "20: On hold" and message "064: 3-D Secure check requested". For example, PayFort is waiting for the Merchant to authenticate the Customer.

9. PayFort completes the operation based on the 3-D secure response and returns the response to the Merchant.
10. The payment results are displayed to the Customer.

NOTE!

If the Token is sent by the Merchant, it will be generated with the same name sent by the Merchant.

7.4 Merchant Page 2.0 URLs

Test Environment URL
https://sbcheckout.PayFort.com/FortAPI/paymentPage

Production Environment URL
https://checkout.PayFort.com/FortAPI/paymentPage

7.5 Parameters Submission Type

HTTPs Form Post Request.

7.6 Merchant Page 2.0 – Request

Include the following parameters in the Request you will send to PayFort:

Merchant Page 2.0 Request Parameters							
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/ Expected Values	Example
service_command	Alpha	Yes	Command.	20		TOKENIZATION	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj

merchant_reference	Alphanumeric	Yes	The Merchant's unique order number.	40	- _ .		XYZ9239-yu898
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
expiry_date	Numeric	Yes	The card's expiry date	4			2105
card_number	Numeric	Yes	The clear credit card's number.	16			4005550000000001
card_security_code	Numeric	Yes	A security code for the card.	4			123
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details). *Please don't include the following parameters in calculating the signature of Merchant Page 2.0 tokenization request: card_security_code, card number, expiry_date, card_holder_name, remember_me	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
token_name	Alphanumeric	No	The token received from the Tokenization process.	100	. @ - _		Op9Vmp
card_holder_name	Alpha	No	The card holder name	50	. - '		John Smith
remember_me	Alpha	No	This parameter provides you with an indication to whether to save this token for the user based on the user selection.	3		-YES -NO	

return_url	Alphanumeric	No	The URL of the Merchant's page to be displayed to the customer when the order is processed.	400	$! = ? # & _ - / : .		http://www.merchant.com

NOTE!

Please don't include the following parameters in calculating the signature if you are using Merchant Page 2.0 tokenization request: card_security_code, card number, expiry_date, card_holder_name, remember_me.

7.7 Merchant Page 2.0 – Response

The following parameters will be returned in PayFort's Response:

Merchant Page 2.0 Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Command.	20	TOKENIZATION	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ9239-yu898
language	Alpha	The checkout page and messages language.	2	- en - ar	
expiry_date	Numeric	The card's expiry date.	4		2105
card_number	Numeric	The clear credit card's number.	16		400555******0001
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5

					dffa31661acf2c827a
token_name	Alphanumeric	The Token received from the Tokenization process.	100		Op9Vmp
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages)	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	
card_bin	Numeric	The first 6 digits of the card number.	6		478773
card_holder_name	Alpha	The card holder name	50		John Smith
remember me	Alpha	This parameter provides you with an indication to whether to save this token for the user based on the user selection.	3	-YES -NO	
return_url	Alphanumeric	The URL of the Merchant's page to be displayed to the customer when the order is processed.	400		http://www.merchant.com

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

7.8 Merchant Page 2.0 Operations

7.8.1 Merchant Page 2.0 URLs

Test Environment URL
https://sbpaymentservices.PayFort.com/FortAPI/paymentApi

Production Environment URL
https://paymentservices.PayFort.com/FortAPI/paymentApi

7.8.2 Parameters Submission Type

REST POST request using JSON.

7.8.3 Operation – Request

Include the following parameters in the Request you will send to PayFort:

Operation Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
command	Alpha	Yes	Command.	20		- AUTHORIZATION - PURCHASE	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number.	40	- _ .		XYZ9239-yu898
amount	Numeric	Yes	The transaction's amount. *Each currency has predefined allowed decimal points that should be taken into consideration when sending the amount.	10			10000
currency	Alpha	Yes	The currency of the transaction's amount in ISO code 3.	3			AED

language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
customer_email	Alphanumeric	Yes	The customer's email.	254	_ - . @		customer@domain.com
token_name	Alphanumeric	Yes	The token received from the Tokenization process.	100	. @ - _		Op9Vmp
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
payment_option	Alpha	No	Payment option.	10		- MASTERCARD - VISA - AMEX	
eci	Alpha	No	Ecommerce indicator.	16		- ECOMMERCE - MOTO	
order_description	Alphanumeric	No	It holds the description of the order.	150	# ' / . _ - : $ **Space**		iPhone 6-S
card_security_code	Numeric	No	A security code for the card.	4			4567
customer_ip	Alphanumeric	No	It holds the customer's IP address. *It's Mandatory if the fraud service is active. *We support IPv4 and IPv6 as shown in the example on the right hand side.	45	. :		**IPv4**→192.178.1.10 **IPv6**→2001:0db8:3042:0002:5a55:caff:fef6:bdbf

customer_name	Alpha	No	The customer's name.	40	_ \ / - . ' **Space**		John Smith
merchant_extra	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	999	. ; / _ - , ' @		JohnSmith
merchant_extra1	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / _ - , ' @		JohnSmith
merchant_extra2	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / _ - , ' @		JohnSmith
merchant_extra3	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / _ - , ' @		JohnSmith
merchant_extra4	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received.	250	. ; / _		JohnSmith

			Will not be displayed in any report.		- , ' @		
remember_me	Alpha	No	This parameter provides you with an indication to whether to save this token for the user based on the user selection. *The Tokenization service **MUST** be activated in order to be able to send "remember_me" parameter.	3		- YES - NO	
phone_number	Numeric	No	The customer's phone number.	19	+ -		00962797219966
settlement_reference	Alphanumeric	No	The Merchant submits this value to the FORT. The value is then passed to the Acquiring bank and displayed to the merchant in the Acquirer settlement file.	34	- _ .		XYZ9239-yu898
return_url	Alphanumeric	No	The URL of the Merchant's page to be displayed to the customer when the order is processed.	400	$! = ? # & _ - / : .		http://www.merchant.com

NOTE!

Before sending the amount value of any transaction, you have to multiply the value with the currency decimal code according to ISO code 3.

For example: If the amount value was 500 AED; according to ISO code 3, you should multiply the value with 100 (2 decimal points); so it will be sent in the request as 50000.

Another example: If the amount value was 100 JOD; according to ISO code 3, you should multiply the value with 1000 (3 decimal points); so it will be sent in the request as 100000.

7.8.4 Operation – Response

The following parameters will be returned in PayFort's Response:

Operation Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
command	Alpha	Command.	20	- AUTHORIZATION - PURCHASE	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ9239-yu898
amount	Numeric	The transaction's amount.	10		10000
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		AED
language	Alpha	The checkout page and messages language.	2	- en - ar	
customer_email	Alphanumeric	The customer's email.	254		customer@domain.com
token_name	Alphanumeric	The token received from the Tokenization process.	100		Op9Vmp
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
fort_id	Numeric	The order's unique reference returned by our system.	20		149295435400084008
payment_option	Alpha	Payment option.	10	- MASTERCARD - VISA - AMEX	
eci	Alpha	E-commerce indicator.	16	- ECOMMERCE - MOTO	
order_description	Alphanumeric	It holds the description of the order.	150		iPhone 6-S

authorization_code	Alphanumeric	The authorization code returned from the 3rd party.	100		P1000000000000372136
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages).	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
customer_ip	Alphanumeric	It holds the customer's IP address. *We support IPv4 and IPv6 as shown in the example on the right hand side.	45		**IPv4**→192.178.1.10 **IPv6**→2001:0db8:3042:0002:5a55:caff:fef6:bdbf
customer_name	Alpha	The customer's name.	40		John Smith
merchant_extra	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	999		JohnSmith
merchant_extra1	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra2	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra3	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra4	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
expiry_date	Numeric	The card's expiry date.	4		2105
card_number	Numeric	The clear credit card's number.	16		400555******0001
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	

card_holder_name	Alpha	The card holder name.	50		John Smith
3ds_url	Alphanumeric	The URL where the Merchant redirects a customer whose card is 3-D Secure for authentication.	300		http://www.3dsecure.com
remember_me	Alpha	This parameter provides you with an indication to whether to save this token for the user based on the user selection.	3	-YES -NO	
phone_number	Numeric	The customer's phone number.	19		00962797219966
settlement_reference	Alphanumeric	The Merchant submits this value to the FORT. The value is then passed to the Acquiring bank and displayed to the merchant in the Acquirer settlement file.	34		XYZ9239-yu898

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

8. Mobile SDK

The FORT Mobile SDK allows Merchants to securely integrate the payment functions. It also allows Merchants to easily accept In-App payments. Instead of the traditional, time-consuming, and complex way of being redirected to the mobile browser to complete the payment, In-App payments can be completed through our FORT Mobile SDK. In turn, this gives the Merchants' consumers a smooth, pleasing user-experience by using In-App payment functions through the native applications.

NOTE!

Please refer to our "**FORT** Mobile SDK for Android" and "**FORT** Mobile SDK for iOS" – Merchant Integration Guide for comprehensive details about our **Mobile SDK service.**

9. Recurring Transaction

Recurring transactions allows the merchant to charge customer's card a specific amount on regular basis using the purchase operation configured in single message mode. For example, the Merchant will be charging his Customer's card the subscription fee on monthly basis.

9.1 How It Works – Overview

1. The Merchant has to have a Token created assigned to a specific customer account. For more details on "Token" please refer to FORT Tokenization Service.
2. The merchant server sends the recurring transaction details along with the Customer's Token to PayFort.
3. The transaction is processed and a valid response is returned to the Merchant servers indicating the status of the transaction.

NOTE!

The Token used to process recurring transactions, should be created when processing a successful transaction using an e-commerce MID registered for the same legal entity the recurring MID is configured for.

NOTE!

Issuers will charge the customer's card if the card was used to process a successful e-commerce transaction for that merchant prior to the recurring transaction.

9.2 Recurring URLs

Test Environment URL
https://sbpaymentservices.PayFort.com/FortAPI/paymentApi

Production Environment URL
https://paymentservices.PayFort.com/FortAPI/paymentApi

9.3 Parameters Submission Type

REST POST request using JSON.

9.4 Recurring – Request

Include the following parameters in the Request you will send to PayFort:

Recurring Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
command	Alpha	Yes	Command.	20		PURCHASE	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number.	40	- _ .		XYZ9239-yu898
amount	Numeric	Yes	The transaction's amount. *Each currency has predefined allowed decimal points that should be taken into consideration when sending the amount.	10			10000
currency	Alpha	Yes	The currency of the transaction's amount in ISO code 3.	3			AED
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
customer_email	Alphanumeric	Yes	The customer's email.	254	_ - . @		customer@domain.com
eci	Alpha	Yes	Ecommerce indicator.	16		RECURRING	
token_name	Alphanumeric	Yes	The token received from the	100	. @		Op9Vmp

			Tokenization process.		- _		
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
order_description	Alphanumeric	No	It holds the description of the order.	150	# ' / . _ - : $ **Space**		iPhone 6-S
customer_name	Alpha	No	The customer's name.	40	_ \ / - . ' **Space**		John Smith
phone_number	Numeric	No	The customer's phone number.	19	+ -		00962797219966
settlement_reference	Alphanumeric	No	The Merchant submits this value to the FORT. The value is then passed to the Acquiring bank and displayed to the merchant in the Acquirer settlement file.	34	- _ .		XYZ9239-yu898

NOTE!

Before sending the amount value of any transaction, you have to multiply the value with the currency decimal code according to ISO code 3.

For example: If the amount value was 500 AED; according to ISO code 3, you should multiply the value with 100 (2 decimal points); so it will be sent in the request as 50000.

Another example: If the amount value was 100 JOD; according to ISO code 3, you should multiply the value with 1000 (3 decimal points); so it will be sent in the request as 100000.

9.5 Recurring – Response

The following parameters will be returned in PayFort's Response:

Recurring Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
command	Alpha	Command.	20	PURCHASE	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ9239-yu898
amount	Numeric	The transaction's amount.	10		10000
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		AED
language	Alpha	The checkout page and messages language.	2	- en - ar	
customer_email	Alphanumeric	The customer's email.	254		customer@domain.com
eci	Alpha	Ecommerce indicator.	16	RECURRING	
token_name	Alphanumeric	The token received from the Tokenization process.	100		Op9Vmp
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
fort_id	Numeric	The order's unique reference returned by our system.	20		149295435400084008

payment_option	Alpha	Payment option.	10	- MASTERCARD - VISA - AMEX	
order_description	Alphanumeric	It holds the description of the order.	150		iPhone 6-S
customer_name	Alpha	The customer's name.	40		John Smith
expiry_date	Numeric	The card's expiry date.	4		2105
card_number	Numeric	The clear credit card's number.	16		400555******0001
authorization_code	Alphanumeric	The authorization code returned from the 3rd party.	100		P1000000000000372136
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages).	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	
phone_number	Numeric	The customer's phone number.	19		00962797219966
settlement_reference	Alphanumeric	The Merchant submits this value to the FORT. The value is then passed to the Acquiring bank and displayed to the merchant in the Acquirer settlement file.	34		XYZ9239-yu898

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

10. Installments Service

This service allows the Customer to pay for the total amount of an order in installments. However, the Merchant will be paid the full amount immediately.

NOTE!
This service is activated for the Merchants by our back-office team. Once you open your Merchant account and click **"Payment Stack"** under the "**Services tab"**, a page will appears displaying your activated services.

10.1 Redirection Installments Service – Request

Include the following parameter in the Purchase - Request Parameters you will send to PayFort:

Redirection Installments Service Request Parameters						
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**
installments	Alpha	No	Used to specify the type of the Installments service.	10		STANDALONE

10.2 Redirection Installments Service – Response

The following parameters will be returned in PayFort's Response in addition to the Purchase - Response Parameters:

Redirection Installments Service Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
installments	Alpha	Used to specify the type of the Installments service.	10	STANDALONE	
number_of_installments	Numeric	The number of installments the customer has selected in payment page.	2		3

NOTE!
Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

10.3 Merchant Page Installments Service – Request

Include the following parameters in the Merchant page - Request Parameters you will send to PayFort:

Merchant Page Installments Service Request Parameters							
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/ Expected Values	Example
installments	Alpha	Yes	Used to specify the type of the Installments service.	10		STANDALONE	
amount	Numeric	Yes	The transaction's amount. *Each currency has predefined allowed decimal points that should be taken into consideration when sending the amount.	10			10000
currency	Alpha	Yes	The currency of the transaction's amount in ISO code 3.	3			USD
customer_country_code	Alpha	No	The Customer's country code. *ISO 3-digit country code.	3			JOR

NOTE!

Before sending the amount value of any transaction, you have to multiply the value with the currency decimal code according to ISO code 3.

For example: If the amount value was 500 AED; according to ISO code 3, you should multiply the value with 100 (2 decimal points); so it will be sent in the request as 50000.

Another example: If the amount value was 100 JOD; according to ISO code 3, you should multiply the value with 1000 (3 decimal points); so it will be sent in the request as 100000.

10.4 Merchant Page Installments Service – Response

The following parameters will be returned in PayFort's Response in addition to the Merchant Page - Response Parameters:

Merchant Page Installments Service Response Parameters					
Parameter Name	Type	Description	Length	Possible/ Expected Values	Example
installments	Alpha	Used to specify the type of the Installments service.	10	STANDALONE	

amount	Numeric	The transaction's amount.	10		10000
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		USD
customer_country_code	Alpha	The Customer's country code. ISO 3-digit country code.	3		JOR
number_of_installments	Numeric	The number of installments the customer has selected in payment page.	2		3
plan_code	Alphanumeric	A code that refers to the "installments plan" the customer selected from the merchant page.	8		NNNN89JJ
issuer_code	Alphanumeric	A code that refers to the "card issuer" the customer selected from the merchant page.	8		12HP34SE

NOTE!
Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

10.5 Purchase Installments Service – Request

Include the following parameters in the Operation – Request Parameters you will send to PayFort:

Purchase Installments Service Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
installments	Alpha	Yes	Used to specify the type of the Installments service.	10		YES	
plan_code	Alphanumeric	Yes	A code that refers to the "installments plan" the customer selected from the merchant page.	8			NNNN89JJ
issuer_code	Alphanumeric	Yes	A code that refers to the "card issuer" the customer selected from the merchant page.	8			12HP34SE

10.6 Purchase Installments Service – Response

The following parameters will be returned in PayFort's Response in addition to Operation - Response Parameters:

Purchase Installments Service Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
installments	Alpha	Used to specify the type of the installments service.	10	YES	
plan_code	Alphanumeric	A code that refers to the "installments plan" the customer selected from the merchant page.	8		NNNN89JJ
issuer_code	Alphanumeric	A code that refers to the "card issuer" the customer selected from the merchant page.	8		12HP34SE
number_of_installments	Numeric	The number of installments the customer has selected in payment page.	2		3

NOTE!
Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

10.7 Installments Merchant Page Customization

The following two figures (3 & 4) illustrate the area related to each of the classes mentioned above:

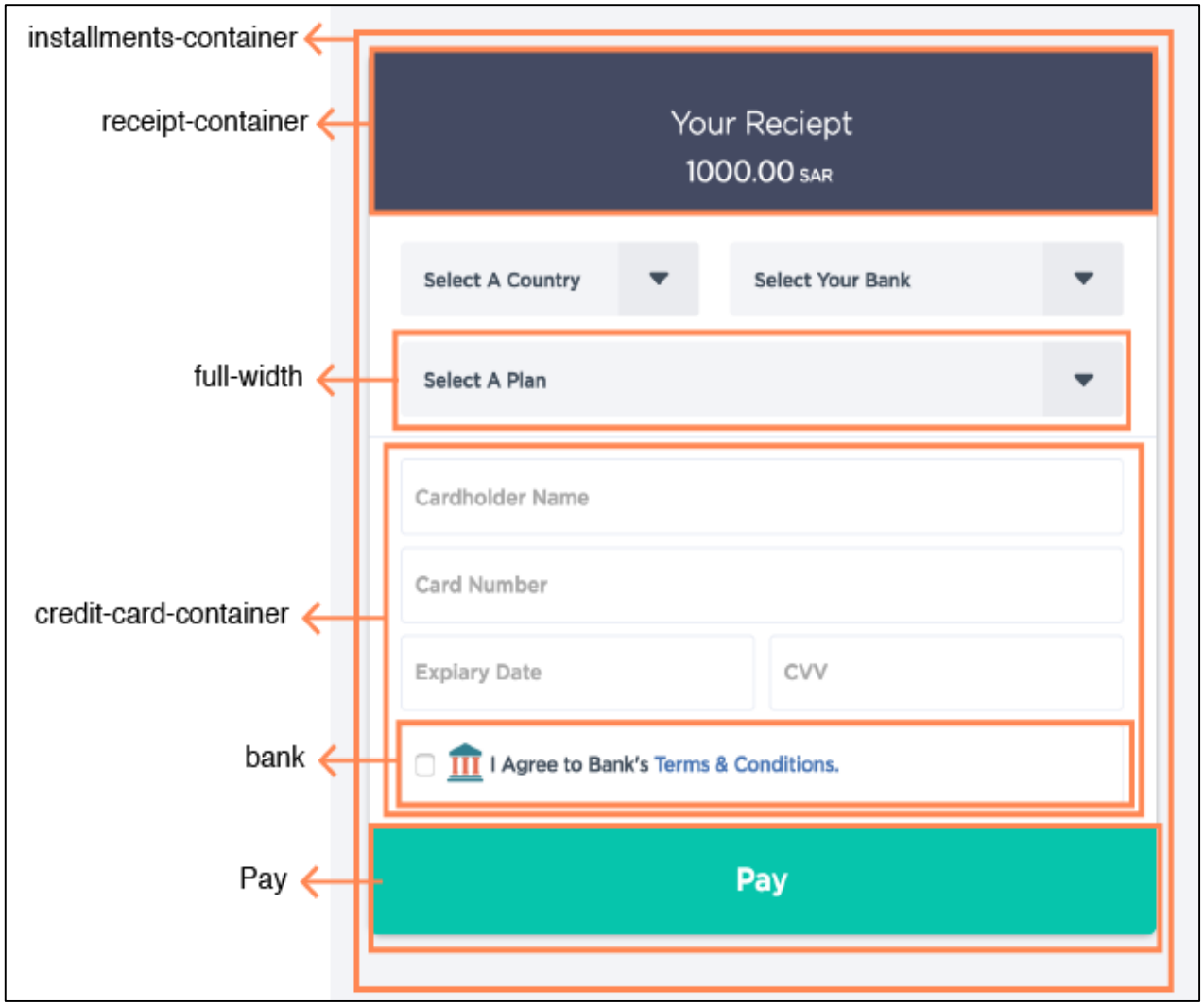

Figure 3: CSS Classes

Figure3 represents the default theme of the Installments Merchant Page. However, it can still be customized and the below figure shows an example of a customization option where plans is looking as a table and removed the receipt container plus changing the theme.

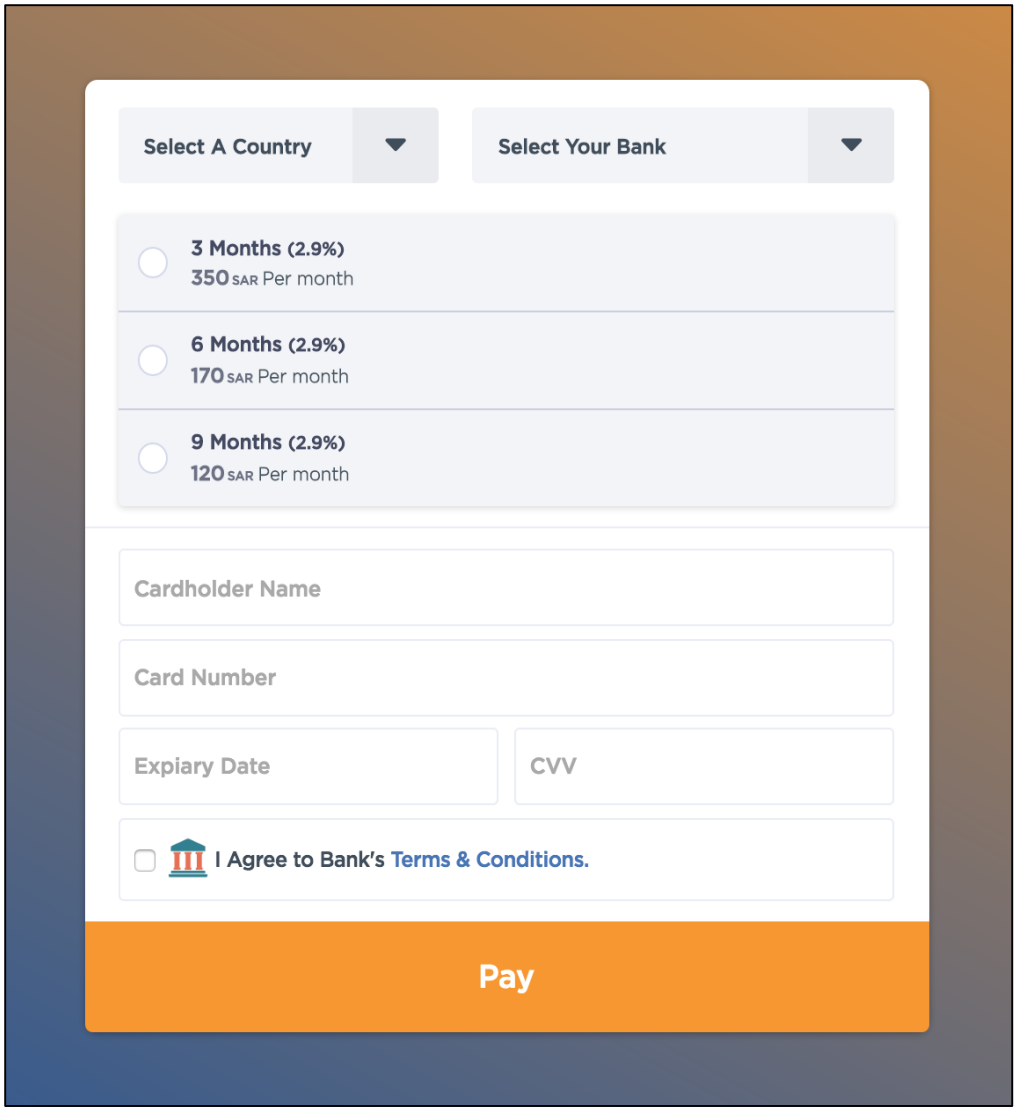

Figure 4: Customized look - Plans as table and theme

11. Redemption Service

This service allows Merchant to **redeem** point or monetary value in exchange for goods, services or Merchant credits. For example, redeeming a Gift Card that will be used to top up the user account balance or in exchange for goods or services the Merchant is offering in return.

11.1 Redemption Service – Overview

There are two ways to integrate the redemption service:

1. **PayFort hosted redemption service:** the redemption service pages are hosted on the FORT. Users are redirected from the Merchant side to PayFort redemption pages. Below is a list of all the operations available for this integration:
    a. **Redeem**: this operation allows the Merchant Gift Card holder to pay for his Purchase using a gift card. This operation should be used if the balance available on the card should be enough to pay for the Purchase.
    b. **Full Redemption**: this operation allows Merchant Gift Card holder to redeem the card's full balance to credit the user's account balance.
    c. **Partial Redemption**: this operation allows Merchant Gift Card holder to redeem a partial amount of the card's balance. This amount can be used to credit the user balance or pay for Purchases.

2. **PayFort RESTful APIs:** Merchants have full control to develop the user experience for the redemption pages. PayFort will offer the following redemption operations to make this possible:
    a. **Redeem**: this operation allows the Merchant to redeem a specific amount from a Merchant Gift Card.
    b. **Reverse**: this operation allows the Merchant to reverse a specific transaction.
    c. **Check Balance**: this operation allows the Merchant to check the available balance and the currency of the Merchant Gift Card.

11.2 PayFort RESTful API URLs

Test Environment URL
https://sbpaymentservices.payfort.com/FortAPI/paymentApi

Production Environment URL
https://paymentservices.payfort.com/FortAPI/paymentApi

11.3 Parameters Submission Type

REST POST request using JSON.

11.4 REDEEM

This operation allows the Merchant to redeem a specific amount from a Merchant Gift Card.

11.4.1 REDEEM – Request

Include the following parameters in the Request you will send to PayFort:

REDEEM Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Yes	Command.	20		REDEEM	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number.	40	- _ .		XYZ9239-yu898
amount	Numeric	Yes	The balance that will be deducted from gift card balance. It is mandatory when using performing a redeem operation only. *Each currency has predefined allowed decimal points that should be taken into consideration when sending the amount.	10			10000
currency	Alpha	Yes	The currency of the transaction's amount in ISO code 3.	3			USD
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
customer_email	Alphanumeric	Yes	The email of the customer.	245	_ - . @		customer@domain.com
gift_card_number	Alphanumeric	Yes	The gift card number, the customer will use it to redeem its balance in exchange of goods or services.	100	. @ - _		123455U48Q44455

signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
customer_name	Alpha	No	The name of the customer.	40	_ \ / - . ' **Space**		John Smith

NOTE!

Before sending the amount value of any transaction, you have to multiply the value with the currency decimal code according to ISO code 3.

For example: If the amount value was 500 AED; according to ISO code 3, you should multiply the value with 100 (2 decimal points); so it will be sent in the request as 50000.

Another example: If the amount value was 100 JOD; according to ISO code 3, you should multiply the value with 1000 (3 decimal points); so it will be sent in the request as 100000.

11.4.2 REDEEM – Response

The following parameters will be returned in PayFort's Response:

REDEEM Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Command.	20	REDEEM	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ9239-yu898
amount	Numeric	The transaction's amount.	10		10000
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		USD

language	Alpha	The checkout page and messages language.	2	- en - ar	
customer_email	Alphanumeric	The email of the customer	245		customer@domain.com
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages)	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
customer_name	Alpha	The name of the customer	40		John Smith
expiry_date	Numeric	The card's expiry date.	4		2105
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses)	
redemption_id	Numeric	The reference to a specific redemption operation.	20		1983887193719
card_bin	Numeric	The first 6 digits of the card number.	6		478773
remaining_balance	Numeric	This is the amount left in the user gift card.	10		200.0
return_url	Alphanumeric	The URL of the Merchant's page to be displayed to the customer when the order is processed.	400		http://www.merchant.com

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

11.5 REVERSE

This operation allows the Merchant to reverse a specific transaction.

11.5.1 REVERSE – Request

Include the following parameters in the Request you will send to PayFort:

REVERSE Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Yes	Command.	20		REVERSE	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number.	40	- _ .		XYZ9239-yu898
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
redemption_id	Numeric	Yes	The reference to a specific redemption operation.	20			1983887193719
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a

11.5.2 REVERSE – Response

The following parameters will be returned in PayFort's Response:

REVERSE Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Command.	20	REVERSE	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ9239-yu898
language	Alpha	The checkout page and messages language.	2	- en - ar	
redemption_id	Numeric	The reference to a specific redemption operation.	20		1983887193719
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages)	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses)	
remaining_balance	Numeric	This is the amount left in the user gift card	10		200.0

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

11.6 Check_balance

This operation allows the Merchant to check the available balance and the currency of the Merchant Gift Card.

11.6.1 Check_balance – Request

Include the following parameters in the Request you will send to PayFort:

Check_balance Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Yes	Command.	20	_	CHECK_BALANCE	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number.	40	- _ .		XYZ9239-yu898
currency	Alpha	Yes	The currency of the transaction's amount in ISO code 3.	3			AED
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
gift_card_number	Alphanumeric	No	The gift card number the customer will use to redeem its balance in exchange of goods or services.	100	. @ - _		123455U48Q44455

11.6.2 Check_balance – Response

The following parameters will be returned in PayFort's Response:

Check_balance Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Command.	20	CHECK_BALANCE	

access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ9239-yu898
amount	Numeric	The transaction's amount.	10		10000
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		USD
language	Alpha	The checkout page and messages language.	2	- en - ar	
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages)	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
expiry_date	Numeric	The card's expiry date.	4		2105
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses)	
gift_card_number	Alphanumeric	The gift card number the customer will use to redeem its balance in exchange of goods or services.	100		123455U48Q44455
remaining_balance	Numeric	The amount of the transaction.	10		200.0

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

12. Fraud Service

12.1 PayFort Fraud Service

This service protects the Merchant form being lured into a scam over the Internet, and as a result minimizes chargebacks.

NOTE!

- This service can be used in both "Authentication" and "Purchase" operations.

- Please note that PayFort's operations team must activate the fraud service.

12.1.1 PayFort Fraud Service – Request/ Response

Include the following parameters in the Request you will send to PayFort, and you will receive the same parameters in the Response:

PayFort Fraud Request / Response Parameters						
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Example**
customer_ip	Alphanumeric	Yes	It holds the customer's IP address. *We support IPv4 and IPv6 as shown in the example on the right hand side.	45	. :	**IPv4**→192.178.1.10 **IPv6**→2001:0db8:3042:0002:5a55:caff:fef6:bdbf

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

12.2 ACI ReD Fraud Service

ACI ReD is a reliable Fraud Screening and Prevention service that will further help safeguard your online payments and minimize chargebacks. It is designed to meet the needs of e-commerce Merchants as well as PSPs. ReD focuses on protecting the Merchant's revenues and support the growth of their business, not to mention enhancing their Customer experience and boosting Customer satisfaction.

12.2.1 ACI ReD Fraud Service – Request

NOTE!
The "fraud_extra" fields are custom fields as their values depend on the sector.

Include the following parameters in the Request you will send to PayFort:

ACI ReD Fraud Service Request Parameters						
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Example**
customer_type	Alpha	No	This parameter is required if any customer detail is present.	1		B
customer_id	Alphanumeric	No	The Customer's ID/ account number.	16	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	Au8vJ9HxLo
customer_first_name	Alpha	No	The Customer's first name.	30	@ - _ . ' / # \ : = ? & ;	Osama

					( ) $ **Space**	
customer_middle_initial	Alpha	No	The Customer's middle name's initial.	1	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	B
customer_last_name	Alpha	No	The Customer's last name.	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	Kamal
customer_address1	Alphanumeric	No	The Customer/ Billing address line 1.	30	@ - _ . '	Amman – Khalda

					/ # \ : = ? & ; ( ) $ **Space**	
customer_address2	Alphanumeric	No	The Customer/ Billing address line 2 (for extra details).	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	Al Sati St.
customer_apartment_no	Alphanumeric	No	The Customer/ Billing apartment number.	30	@ - _ . ' / # \ : = ? & ; ( )	12

					$ **Space**	
customer_city	Alphanumeric	No	The Customer/ Billing city.	20	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	Amman
customer_state	Alpha	No	The Customer/ Billing state code.	10		Jordan
customer_zip_code	Alphanumeric	No	The Customer/ Billing post/ zip code.	9	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	11183
customer_country_code	Alpha	No	The Customer's country code. *ISO 3-digit country code.	3		JOR
customer_phone	Numeric	No	The Customer's home phone number.	19		00962797219966

customer_alt_phone	Numeric	No	The Customer's alternative phone. * For the *Telecommunications* sector, send: **MSISDN**.	19		00962797256645
customer_date_birth	Alphanumeric	No	The Customer's date of birth. Format: YYYY-MM-DD.	10	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	1977-10-03
ship_type	Alpha	No	Shipping details present flag. * This parameter is not applicable for the *Gaming* sector.	1		S
ship_first_name	Alpha	No	Ship to first name. * This parameter is not applicable for the *Gaming* sector.	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	Rana

ship_middle_name	Alpha	No	Ship to middle initial. * This parameter is not applicable for the *Gaming* sector.	1	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	A
ship_last_name	Alpha	No	Ship to last name. * This parameter is not applicable for the *Gaming* sector.	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	Rashdan
ship_address1	Alphanumeric	No	Ship to address line 1. * This parameter is not applicable for the *Gaming* sector.	30	@ - _ . ' / # \ :	Cairo – Egypt

					= ? & ; ( ) $, **Space**	
ship_address2	Alphanumeric	No	Ship to address line 2. * This parameter is not applicable for the *Gaming* sector.	30	@ - _ . ' / # \ : = ? & ; ( ) $, **Space**	Garden City
ship_apartment_no	Alphanumeric	No	Ship to apartment number. * This parameter is not applicable for the *Gaming* sector.	30	@ - _ . ' / # \ : = ? & ; ( )	22

					$ **Space**	
ship_address_city	Alphanumeric	No	Ship to address city. * This parameter is not applicable for the *Gaming* sector.	20	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	Dubai
ship_address_state	Alpha	No	Ship to address state. * This parameter is not applicable for the *Gaming* sector.	3		UAE
ship_zip_code	Alphanumeric	No	Ship to post/ zip code. * This parameter is not applicable for the *Gaming* sector.	9		11183
ship_country_code	Alpha	No	Ship to country code. ISO 3-Digit country code. * This parameter is not applicable for the *Gaming* sector.	3		JOR
ship_phone	Numeric	No	Ship to home phone number. * This parameter is not applicable for the *Gaming* sector.	19		0096265534256
ship_alt_phone	Numeric	No	Ship To alternative phone. * This parameter is not applicable for the *Gaming* sector.	12		0797334465

ship_email	Alphanumeric	No	Ship to email address. * For the *Gaming* sector, send: **Player Email Address**.	256	@ - _ . **Space**	ship@gmail.com
ship_comments	Alphanumeric	No	Any shipping comments. * This parameter is not applicable for the *Gaming* sector.	160	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	(Any shipping comments can be entered).
ship_method	Alpha	No	The shipping method. * This parameter is not applicable for the *Gaming* sector.	1		- N (Next Day Service) - T (Two-Day Service) - W (Three-Day Service) - C (Low-Cost Carrier) - D (Customer Choice) - I (International) - M (Military) - P (Collect at Store) - O (Other)
fraud_extra1	Alphanumeric	No	If the sector is *Retail*, *Gaming*, *Travel*, or *Telecommunications*, then the field value must contain the "Concatenated Billing Address".	256	@ - _ . ' / #	

					\ : = ? & ; ( ) $ **Space**	
fraud_extra2	Alphanumeric	No	If the sector is *Retail*, *Travel*, or *Telecommunications*, the value of the field must be the "Concatenated Shipping Address" as follows: *street +<space> + shipzip if the address is particularly long and space is limited then truncate the first portion of the address and send the postcode/Zip code in full.* * This parameter is not applicable for the *Gaming* sector.	256	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	
fraud_extra3	Alphanumeric	No	If the sector is *Retail*, *Gaming*, *Travel*, or *Telecommunications*, the value must be the "Address Verification (PayPal)".	256	@ - _ . ' / # \ : = ? & ; ( )	

					$ **Space**	
fraud_extra4	Alphanumeric	No	If the sector is *Retail*, *Gaming*, *Travel*, or *Telecommunications*, the value must be the "Account Status (PayPal)".	256	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	
fraud_extra5	Alphanumeric	No	If the sector is *Retail*, *Gaming*, *Travel*, or *Telecommunications*, the value must be the "Eligibility Status (PayPal)".	256	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	
fraud_extra6	Alphanumeric	No	If the sector is *Retail*, *Gaming*, *Travel*, or *Telecommunications*, the value must be the "Outstanding Balance on the Account (PayPal)".	256	@ - _ . ' / #	

					\ : = ? & ; ( ) $ **Space**	
fraud_extra7	Alphanumeric	No	If the sector is *Retail*, *Gaming*, *Travel*, or *Telecommunications*, the value must be the "Credit Score (PayPal)".	256	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	
fraud_extra8	Alphanumeric	No	If the sector is *Telecommunications*, the value must be the "Account Number" (if multiple MSISDN per account).	256	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	

fraud_extra9	Alphanumeric	No	If the sector is *Telecommunications*, the value must be the "MSISDN Age in days".	256	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	
fraud_extra10	Alphanumeric	No	- If the sector is *Travel*, the value must be the "Full Travel Itinerary". - If the sector is *Telecommunications*, the value must be the "Earliest Account Activity/ First Call Date".	256	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	
fraud_extra11	Alphanumeric	No	If the sector is *Retail*, *Gaming*, *Travel*, or *Telecommunications*, the value must be the "Account Age".	30	@ - _ . ' / # \ :	

					= ? & ; ( ) $ **Space**	
fraud_extra12	Alphanumeric	No	If the sector is *Retail*, *Travel*, or *Telecommunications*, the value must be the "Number of Previous Orders Sent to the Shipping Address".	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	
fraud_extra13	Alphanumeric	No	If the sector is *Retail*, *Gaming*, *Travel*, or *Telecommunications*, the value must be the "Number of Days Since the Email Attached to the Account has Changed".	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	

fraud_extra14	Alphanumeric	No	If the sector is *Retail*, *Gaming*, *Travel*, or *Telecommunications*, the value must be the "Number of Days Since the Password was Changed".	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	
fraud_extra16	Alphanumeric	No	If the sector is *Retail*, *Gaming*, *Travel*, or *Telecommunications*, the value must be the "Number of Previous Orders Associated with the Card and Email".	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	
fraud_extra17	Alphanumeric	No	If the sector is *Retail*, *Gaming*, *Travel*, or *Telecommunications*, the value must be the "Event/ Promotion Flag".	30	@ - _ . ' / # \	

					: = ? & ; ( ) $ **Space**	
fraud_extra18	Alphanumeric	No	- If the sector is *Retail*, *Gaming*, or *Telecommunications*, the value must be the "Sales Channel". - If the sector is *Travel*, the value must be the "Third Party Booking Flag, Yes or No".	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	
fraud_extra19	Alphanumeric	No	- If the sector is *Retail*, *Travel*, or *Telecommunications,* the value must be the "Private/ Business/ Trade" (customerType). - If the sector is *Gaming*, the value must be the "Customer Gaming ID".	30	@ - _ . ' / # \ : = ? & ; ( ) $	

					Space	
fraud_extra20	Alphanumeric	No	- If the sector is *Retail*, *Gaming*, or *Telecommunications*, the value must be the "Number of Previous Successful Transactions". - If the sector is *Travel*, the value must be the "Number of Previous Successful Bookings".	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	
fraud_extra21	Alphanumeric	No	- If the sector is *Gaming*, the values must be the "Gift for Other Player Flag". - If the sector is *Travel*, the value must be the "Booking Type". - If the sector is *Telecommunications*, the value must be the "Payment Type".	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	
fraud_extra22	Alphanumeric	No	- If the sector is *Gaming*, the values must be the "Playing Time". - If the sector is *Travel*, the value must be the "Time to First Departure in Hours".	30	@ - _ . ' / #	

			- If the sector is *Telecommunications*, the value must be the "Number of Previous Successful Top-ups".		\ : = ? & ; ( ) $ **Space**	
fraud_extra23	Alphanumeric	No	If the sector is *Retail*, *Gaming*, *Travel*, or *Telecommunications*, the value must be the "Channel (IVR vs. Web vs. Mobile Application, etc.).	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	
fraud_extra24	Alphanumeric	No	- If the sector is *Gaming*, the values must be the "Premium Account Balance". - If the sector is *Travel*, the value must be the "Loyalty Scheme". - If the sector is *Telecommunications*, the value must be the "Sim IMSI (International Mobile Subscriber Identity)".	30	@ - _ . ' / # \ : = ? & ; ( ) $	

					Space	
fraud_extra25	Alphanumeric	No	- If the sector is *Gaming*, the values must be the "Game Account Balance". - If the sector is *Travel*, the value must be the "Loyalty Scheme Member Number". - If the sector is *Telecommunications*, the value must be the "IMEI (International Mobile Equipment Identity)".	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	
cart_details	Alphanumeric	No	This parameter is a parent parameter for other parameters that contain the details of the shopping cart created by the Merchant.	999	$	(Please refer to section cart_details Example Value)
device_fingerprint	Alphanumeric	No	Unique device ID generated by script.	4000	@ - _ . ' / # \ : = ? & ; ( ) $ % + !	04003hQUMXGB0po…

					Space	

12.2.2 ACI ReD Cart Fraud Service – Request

Include the following parameters in the Request you will send to PayFort:

ACI ReD Cart Fraud Service Request Parameters						
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Example**
item_quantity	Alphanumeric	No	The item's quantity. * For the *Gaming* sector, send: **Clan**.	10		4
item_sku	Alphanumeric	No	The item's commodity or "Stock Keeping Unit" code. * For the *Gaming* sector, send: **Gold balance**.	12	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	1ShirtBlueM
item_prod_code	Alphanumeric	No	The item's product code. * For the *Gaming* sector, send: **Silver balance**.	12	@ - _ . ' / # \ : = ? & ; (	MOB111

					) $ **Space**	
item_part_no	Alphanumeric	No	The item's Manufacturers Part or EAN number. * For the *Gaming* sector, send: **Exp balance**. * For the *Travel* sector, send: **Flight**/ **Train**/ **Bus Number**.	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	TSR-1002
item_description	Alphanumeric	No	The item's description. * For the *Gaming* sector, send: Date of first credit. * For the *Travel* sector, send: **Ticket Delivery Method**.	127	- _ ' , . **Space**	iPhone 6-S
item_price	Numeric	No	The item's unit price (lowest denomination). * For the *Travel* sector, send: **Ticket Price**.	10		700
item_shipping_no	Alphanumeric	No	The item's shipping/ tracking number. * For the *Travel* sector, send: **Ticket Departure Date And Time**.	19	@ - _ . ' / # \ : =	AB586985609GB

					? & ; ( ) $ **Space**	
item_shipping_method	Alpha	No	The item's shipping method. * For the *Retail, Travel, Telecommunications* sectors, send: **New Shipping Address Flag**. * This parameter is not applicable for the *Gaming* sector.	1		- N (Next Day Service) - T (Two-Day Service) - W (Three-Day Service) - C (Low-Cost Carrier) - D (Customer Choice) - I (International) - M (Military) - P (Collect at Store) - O (Other)
item_shipping_comments	Alphanumeric	No	The item's shipping comments. * For the *Travel* sector, send: **Ticket Itinerary**.	160	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	(Any shipping comments can be entered).
item_gift_msg	Alphanumeric	No	The item's gift message. * For the *Retail* and *Telecommunications* sectors, send: **High Risk Product Flag**.	160	@ - _ . '	

					/ # \ : = ? & ; ( ) $ **Space**	
rcpt_title	Alphanumeric	No	The Recipient's title. * For the *Retail* and *Telecommunications* sectors, this parameter should be sent if multiple shipping addresses are available. * For the *Travel* sector, send: **Adult/Child/Infant flag**.	5	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	Mr.
rcpt_first_name	Alphanumeric	No	The Recipient's first name. * For the *Retail* and *Telecommunications* sectors, this parameter should be sent if multiple shipping addresses are available. * For the *Travel* sector, send: **Passenger First Name**.	30	@ - _ . ' / # \ : = ? & ; (	Mohammad

					) $ **Space**	
rcpt_middle_initial	Alphanumeric	No	The Recipient's middle initial. * For the *Retail* and *Telecommunications* sectors, this parameter should be sent if multiple shipping addresses are available. * For the *Travel* sector, send: **Passenger Middle Initial**.	1	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	R
rcpt_last_name	Alphanumeric	No	The Recipient's last name. * For the *Retail* and *Telecommunications* sectors, this parameter should be sent if multiple shipping addresses are available. * For the *Travel* sector, send: **Passenger Last Name**.	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	Tawfeeq
rcpt_apartment_no	Alphanumeric	No	The Recipient's apartment number. * For the *Retail* and *Telecommunications* sectors, this parameter should be sent if multiple	30	@ - _ . ' /	12

			shipping addresses are available. * For the *Travel* sector, send: Travel Class; i.e.: **Standard**/ **Economy** etc.		# \ : = ? & ; ( ) $ **Space**	
rcpt_address 1	Alphanumeric	No	The Recipient's address line 1. * For the *Retail* and *Telecommunications* sectors, this parameter should be sent if multiple shipping addresses are available. * For the *Travel* sector, send: **Departure Airport/ Station Code/ City**.	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	Amman – Khalda
rcpt_address 2	Alphanumeric	No	The Recipient's address line 2 (for extra details). * For the *Retail* and *Telecommunications* sectors, this parameter should be sent if multiple shipping addresses are available. * For the *Travel* sector, send: **Arrival Airport/ Station Code/ City**.	30	@ - _ . ' / # \ : = ? & ; ( )	Al Sati St.

					$ **Space**	
rcpt_city	Alphanumeric	No	The Recipient's city. * For the *Retail* and *Telecommunications* sectors, this parameter should be sent if multiple shipping addresses are available. * For the *Travel* sector, send: **Booking Type**.	30	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	Sharjah
rcpt_state	Alphanumeric	No	The Recipient's state. * For the *Retail* and *Telecommunications* sectors, this parameter should be sent if multiple shipping addresses are available. * For the *Travel* sector, send: **Departure Country 3 Digit ISO Code**.	10	@ - _ . ' / # \ : = ? & ; ( ) $ **Space**	Qatar
rcpt_zip_code	Alphanumeric	No	The Recipient's post/ zip code. * For the *Retail* and *Telecommunications* sectors, this parameter should be sent if multiple	10	@ - _ . ' / #	11183

			shipping addresses are available. * For the *Travel* sector, send: Ticket Type; i.e.: **One Way/ Return** etc.		\ : = ? & ; ( ) $ **Space**	
rcpt_country_code	Alpha	No	The Recipient's country code. ISO 3-Digit country code. * For the *Retail* and *Telecommunications* sectors, this parameter should be sent if multiple shipping addresses are available. * For the *Travel* sector, send: **Arrival Country**.	3		JOR
rcpt_phone	Numeric	No	The Recipient's phone number. * For the *Retail* and *Telecommunications* sectors, this parameter should be sent if multiple shipping addresses are available.	19		00962797675543
rcpt_email	Alphanumeric	No	The Recipient's email address. * For the *Retail* and *Telecommunications* sectors, this parameter should be sent if multiple shipping addresses are available. * For the *Travel* sector, send: **Passenger Name Record**.	45	@ - _ . **Space**	recipient@hotmail.com

12.2.3 ACI ReD Fraud – Response

The following parameter will be returned in the Response:

Check_balance Response Parameters					
Parameter Name	Type	Description	Length	Possible/ Expected Values	Example
fraud_comment	Alphanumeric	"fraud_comment" this value represents the feedback of the agent reviewing "in review" transaction. This parameter is part of the Authorization/ Purchase response parameters returned on the notification URL after the In review transaction is updated.	1000		Close

12.2.4 cart_details Example Value

The following is an example value of the "cart_details":

```
"{cart_items:[{item_quantity:1,item_description:'item desc', item_price:50},{item_quantity:2,item_description:'item desc', item_price:50}]}"
```

12.2.5 Device Fingerprint Script

The following is the script you should use to generate the device fingerprint:

NOTE!

The value of the device fingerprint hidden field will be calculated from the below script, you should take this value and send it to PayFort.

<input type="hidden" id="device_fingerprint" name="device_fingerprint"/>

NOTE!

Please don't edit on the values in the script below.

```
<script type="text/javascript" >
var io_bbout_element_id = 'device_fingerprint';//the input id will be used to collect the device fingerprint value
var io_install_stm = false;
var io_exclude_stm = 0;//prevent the iovation Active X control from running on either Windows
var io_install_flash = false;
var io_enable_rip = true;// collect real ip information
</script>

<script type="text/javascript" src="https://mpsnare.iesnare.com/snare.js"></script>
```


13. Invoicing Service

This service enables the Merchant to generate an invoice payment link. The Customer will be able to use this link to pay his invoices using any of the payment options that are configured for the Merchant.

13.1 Invoicing Service URLs

Test Environment URL
https://sbpaymentservices.PayFort.com/FortAPI/paymentApi

Production Environment URL
https://paymentservices.PayFort.com/FortAPI/paymentApi

13.2 Parameters Submission Type

REST POST request using JSON.

13.3 Invoicing Service – Request

Include the following parameters in the Request you will send to PayFort:

Invoicing Service Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Yes	Command.	20	_	PAYMENT_LINK	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number.	40	- _ .		XYZ9239-yu898
amount	Numeric	Yes	The transaction's amount. *Each currency has predefined allowed decimal points that should be taken into	10			100 USD =1.00USD

			consideration when sending the amount.				
currency	Alpha	Yes	The currency of the transaction's amount in ISO code 3.	3			USD
language	Alpha	Yes	The invoice and the received messages language.	2		- en - ar	
customer_email	Alphanumeric	Yes	The customer's email.	254	_ - . @		customer@domain.com
request_expiry_date	Alphanumeric	Yes	The invoice link expiry date.	25	- : +		2017-12-20T15:36:55+03:00
notification_type	Alpha	Yes	The way the Customer wants to use to get his notification. The Merchant can choose more than one way. * If the Customer chooses NONE with "EMAIL" or "SMS", then the NONE will be taken as notification type.	20	,	- SMS - EMAIL - NONE	
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
payment_link_id	Alphanumeric	No	The ID of the generated Invoice payment link.	20	- _ .		1487083927000203 46
payment_option	Alpha	No	Payment option.	10		- MASTERCARD - VISA - AMEX - SADAD (for Purchase operations only) - NAPS (for Purchase operations only) - KNET (for Purchase operations only)	

order_description	Alphanumeric	No	It holds the description of the order.	150	# ' / . _ - : $ **Space**		iPhone 6-S
customer_name	Alpha	No	The Customer's name.	40	_ \ / - . ' **Space**		John Smith
customer_phone	Numeric	No	The Customer mobile number. It's mandatory when selects SMS as notification type.	19			00962797219966
return_url	Alphanumeric	No	The URL of the Merchant's page to be redirected to when the order is processed.	400	$! = ? # & _ - / : .		http://www.merchant.com

NOTE!

If the Customer chooses NONE with "EMAIL" or "SMS", then the NONE will be taken as notification type.

NOTE!

Before sending the amount value of any transaction, you have to multiply the value with the currency decimal code according to ISO code 3.

For example: If the amount value was 500 AED; according to ISO code 3, you should multiply the value with 100 (2 decimal points); so it will be sent in the request as 50000.

Another example: If the amount value was 100 JOD; according to ISO code 3, you should multiply the value with 1000 (3 decimal points); so it will be sent in the request as 100000.

13.4 Invoicing Service – Response

The following parameters will be returned in PayFort's Response:

Invoicing Service Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Command.	20	PAYMENT_LINK	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ2939-yu898
amount	Numeric	The transaction's amount.	10		100 USD =1.00USD
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		USD
language	Alpha	The invoice and received messages language.	2	- en - ar	
customer_email	Alphanumeric	The customer's email.	254		customer@domain.com
request_expiry_date	Alphanumeric	The invoice link expiry date.	25		2017-12-20T15:36:55+03:00
notification_type	Alpha	The way the Customer wants to use to get his notification. The Merchant can choose more than one way. *If the Customer chooses NONE with "EMAIL" or "SMS", then the NONE will be taken as notification type.	20	- SMS - EMAIL - NONE	

signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
payment_link_id	Numeric	The ID of the generated Invoice payment link.	20		148708392700020346
payment_link	Alphanumeric	The generated invoice link notified to the Customer by one of the notification types, used to complete the payment process.	150		https://checkout.payfort.com/dfc3d762
payment_option	Alpha	Payment option.	10	- MASTERCARD - VISA - AMEX - SADAD (for Purchase operations only) - NAPS (for Purchase operations only) - KNET (for Purchase operations only)	
order_description	Alphanumeric	It holds the description of the order.	150		iPhone 6-S
customer_name	Alpha	The customer's name.	40		John Smith
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages).	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	
customer_phone	Numeric	The Customer mobile number. It's mandatory when selects SMS as notification type.	19		00962797219966
return_url	Alphanumeric	The URL to be redirected to when the order is processed.	400		http://www.merchant.com

NOTE!
Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

- After completing the checkout process through the payment link; the following list of parameters will be returned under the “Direct Transaction Feedback”:

NOTE!
To find your “Direct Transaction Feedback” from the back office; follow these steps:

Integration Settings → Technical Settings → Redirection Channel → you will find your “Direct Transaction Feedback”.

Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
command	Alpha	Command.	20	- AUTHORIZATION - PURCHASE	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant’s unique order number.	40		XYZ2939-yu898
amount	Numeric	The transaction's amount.	10		10000
currency	Alpha	The currency of the transaction’s amount in ISO code 3.	3		AED
language	Alpha	The checkout page and messages language.	2	- en - ar	
customer_email	Alphanumeric	The customer's email.	254		customer@domain.com
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
payment_link_id	Numeric	The ID of the generated Invoice payment link.	20		148708392700020346

token_name	Alphanumeric	The Token received from the Tokenization process.	100		Op9Vmp
fort_id	Numeric	The order's unique reference returned by our system.	20		149295435400084008
payment_option	Alpha	Payment option.	10	- MASTERCARD - VISA - AMEX - SADAD (for Purchase operations only) - NAPS (for Purchase operations only) - KNET (for Purchase operations only)	
sadad_olp	Alphanumeric	SADAD Online Payment ID Alias.	12		SABBP2P_UAT2
eci	Alpha	E-commerce indicator.	16	- ECOMMERCE - MOTO	
order_description	Alphanumeric	It holds the description of the order.	150		iPhone 6-S
customer_ip	Alphanumeric	It holds the customer's IP address. *We support IPv4 and IPv6 as shown in the example on the right hand side.	45		**IPv4**→192.178.1.10 **IPv6**→2001:0db8:3042:0002:5a55:caff:fef6:bdbf
customer_name	Alpha	The customer's name.	40		John Smith
merchant_extra	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	999		JohnSmith
merchant_extra1	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra2	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra3	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra4	Alphanumeric	Extra data sent by merchant. Will be received and sent	250		JohnSmith

		back as received. Will not be displayed in any report.			
authorization_code	Alphanumeric	The authorization code returned from the 3rd party.	100		P1000000000000037213 6
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages).	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	
card_holder_name	Alpha	The card holder name.	50		John Smith
expiry_date	Numeric	The card's expiry date.	4		2105
card_number	Numeric	The clear credit card's number.	16		400555******0001
remember_me	Alpha	This parameter provides you with an indication to whether to save this token for the user based on the user selection.	2	NO	
phone_number	Numeric	The customer’s phone number.	19		00962797219966
settlement_reference	Alphanumeric	The Merchant submits this value to the FORT. The value is then passed to the Acquiring bank and displayed to the merchant in the Acquirer settlement file.	34		XYZ9239-yu898

14. MOTO Channel

MOTO (Mobile Order/ Telephone Order) channel allows the Merchant to process MOTO transactions through the FORT API using credit card Tokens ONLY.

14.1 MOTO Channel URLs

Test Environment URL
https://sbpaymentservices.PayFort.com/FortAPI/paymentApi

Production Environment URL
https://paymentservices.PayFort.com/FortAPI/paymentApi

14.2 Parameters Submission Type

REST POST request using JSON.

14.3 MOTO Channel – Request

Include the following parameters in the Request you will send to PayFort:

MOTO Channel Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
command	Alpha	Yes	Command.	20		- AUTHORIZATION - PURCHASE	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number.	40	- _ .		XYZ9239-yu898
amount	Numeric	Yes	The transaction's amount. *Each currency has predefined allowed decimal points that should be taken into	10			10000

			consideration when sending the amount.				
currency	Alpha	Yes	The currency of the transaction's amount in ISO code 3.	3			AED
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
customer_email	Alphanumeric	Yes	The customer's email.	254	_ - . @		customer@domain.com
eci	Alpha	Yes	E-commerce indicator.	16		MOTO	
token_name	Alphanumeric	Yes	The token received from the Tokenization process.	100	. @ - _		Op9Vmp
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
payment_option	Alpha	No	Payment option.	10		- MASTERCARD - VISA - AMEX	
order_description	Alphanumeric	No	It holds the description of the order.	150	# ' / . _ - : $ **Space**		iPhone 6-S
customer_ip	Alphanumeric	No	It holds the customer's IP address.	45	. :		**IPv4**→192.178.1.10

			*It's Mandatory if the fraud service is active. *We support IPv4 and IPv6 as shown in the example on the right hand side.				**IPv6→**2001:0db8:3042:0002:5a55:caff:fef6:bdbf
customer_name	Alpha	No	The customer's name.	40	_ \ / - . ' **Space**		John Smith
phone_number	Numeric	No	The customer's phone number.	19	+ -		00962797219966
settlement_reference	Alphanumeric	No	The Merchant submits this value to the FORT. The value is then passed to the Acquiring bank and displayed to the merchant in the Acquirer settlement file.	34	- _ .		XYZ9239-yu898
return_url	Alphanumeric	No	The URL of the Merchant's page to be redirected to when the order is processed.	400	$! = ? # & _ - / : .		http://www.merchant.com

NOTE!

Before sending the amount value of any transaction, you have to multiply the value with the currency decimal code according to ISO code 3.

For example: If the amount value was 500 AED; according to ISO code 3, you should multiply the value with 100 (2 decimal points); so it will be sent in the request as 50000.

Another example: If the amount value was 100 JOD; according to ISO code 3, you should multiply the value with 1000 (3 decimal points); so it will be sent in the request as 100000.

14.4 MOTO Channel – Response

The following parameters will be returned in PayFort's Response:

MOTO Channel Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
command	Alpha	Command.	20	- AUTHORIZATION - PURCHASE	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ2939-yu898
amount	Numeric	The transaction's amount.	10		10000
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		AED
language	Alpha	The checkout page and messages language.	2	- en - ar	
customer_email	Alphanumeric	The customer's email.	254		customer@domain.com
eci	Alpha	E-commerce indicator.	16	MOTO	
token_name	Alphanumeric	The token received from the Tokenization process.	100		Op9Vmp
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
fort_id	Numeric	The order's unique reference returned by our system.	20		149295435400084008

payment_option	Alpha	Payment option.	10	- MASTERCARD - VISA - AMEX	
order_description	Alphanumeric	It holds the description of the order.	150		iPhone 6-S
customer_ip	Alphanumeric	It holds the customer's IP address. *We support IPv4 and IPv6 as shown in the example on the right hand side.	45		**IPv4**→192.178.1.10 **IPv6**→2001:0db8:3042:0002:5a55:caff:fef6:bdbf
customer_name	Alpha	The customer's name.	40		John Smith
authorization_code	Alphanumeric	The authorization code returned from the 3rd party.	100		P1000000000000372136
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages).	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	
expiry_date	Numeric	The card's expiry date.	4		2105
card_number	Numeric	The clear credit card's number.	16		400555******0001
phone_number	Numeric	The customer's phone number.	19		00962797219966
settlement_reference	Alphanumeric	The Merchant submits this value to the FORT. The value is then passed to the Acquiring bank and displayed to the merchant in the Acquirer settlement file.	34		XYZ9239-yu898
return_url	Alphanumeric	The URL of the Merchant's page to be displayed to the customer when the order is processed.	400		http://www.merchant.com

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

15. Trusted Channel

Trusted channel allows PCI certified Merchants to collect the user's credit card details on the Merchant's checkout page. The Merchants are able to process (Ecommerce, Recurring and MOTO) transactions through the FORT using clear card data and credit card tokens.

15.1 Trusted Channel URLs

Test Environment URL
https://sbpaymentservices.PayFort.com/FortAPI/paymentApi

Production Environment URL
https://paymentservices.PayFort.com/FortAPI/paymentApi

15.2 Parameters Submission Type

REST POST request using JSON.

15.3 Trusted Channel – Request

Include the following parameters in the Request you will send to PayFort:

Trusted Channel Request Parameters							
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/ Expected Values	Example
command	Alpha	Yes	Command.	20		- AUTHORIZATION - PURCHASE	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number.	40	- _ .		XYZ9239-yu898
amount	Numeric	Yes	The transaction's amount. *Each currency has predefined allowed decimal	10			10000

			points that should be taken into consideration when sending the amount.				
currency	Alpha	Yes	The currency of the transaction's amount in ISO code 3.	3			AED
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
customer_email	Alphanumeric	Yes	The customer's email.	254	_ - . @		customer@domain.com
eci	Alpha	Yes	E-commerce indicator.	16		- ECOMMERCE - RECURRING - MOTO	
expiry_date	Numeric	Yes	The card's expiry date.	4			2105
card_number	Numeric	Yes	The clear credit card's number.	16			400555******0001
card_security_code	Numeric	---	The clear card security code collect on the merchant's checkout page. *It's ONLY mandatory in the ecommerce requests.	4			123
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a

card_holder_name	Alpha	No	The card holder name.	50	. - '		John Smith
token_name	Alphanumeric	No	The Token received from the Tokenization process.	100	. @ - _		Op9Vmp
payment_option	Alpha	No	Payment option.	10		- MASTERCARD - VISA - AMEX	
order_description	Alphanumeric	No	It holds the description of the order.	150	# ' / . _ - : $ **Space**		iPhone 6-S
customer_ip	Alphanumeric	No	It holds the customer's IP address. *It's Mandatory if the fraud service is active. *We support IPv4 and IPv6 as shown in the example on the right hand side.	45	. :		**IPv4**→192.178.1.10 **IPv6**→2001:0db8:3042:0002:5a55:caff:fef6:bdbf
customer_name	Alpha	No	The customer's name.	40	_ \ / - . ' **Space**		John Smith
phone_number	Numeric	No	The customer’s	19	+ -		00962797219966

			phone number.				
settlement_reference	Alphanumeric	No	The Merchant submits this value to the FORT. The value is then passed to the Acquiring bank and displayed to the merchant in the Acquirer settlement file.	34	- _ .		XYZ9239-yu898
merchant_extra	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	999	. ; / _ - , ' @		JohnSmith
merchant_extra1	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / _ - , ' @		JohnSmith
merchant_extra2	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / _ - , ' @		JohnSmith
merchant_extra3	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will	250	. ; / _ -		JohnSmith

			not be displayed in any report.		, ' @		
merchant_extra4	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / _ - , ' @		JohnSmith
return_url	Alphanumeric	No	The URL of the Merchant's page to be displayed to the customer when the order is processed.	400	$! = ? # & _ - / : .		http://www.merchant.com

NOTE!

Before sending the amount value of any transaction, you have to multiply the value with the currency decimal code according to ISO code 3.

For example: If the amount value was 500 AED; according to ISO code 3, you should multiply the value with 100 (2 decimal points); so it will be sent in the request as 50000.

Another example: If the amount value was 100 JOD; according to ISO code 3, you should multiply the value with 1000 (3 decimal points); so it will be sent in the request as 100000.

15.4 Trusted Channel – Response

The following parameters will be returned in PayFort's Response:

Trusted Channel Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
command	Alpha	Command.	20	- AUTHORIZATION	

				- PURCHASE	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ2939-yu898
amount	Numeric	The transaction's amount.	10		10000
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		AED
language	Alpha	The checkout page and messages language.	2	- en - ar	
customer_email	Alphanumeric	The customer's email.	254		customer@domain.com
eci	Alpha	E-commerce indicator.	16	- ECOMMERCE - RECURRING - MOTO	
expiry_date	Numeric	The card's expiry date.	4		2105
card_number	Numeric	The clear credit card's number.	16		400555******0001
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
card_holder_name	Alpha	The card holder name	50		John Smith
token_name	Alphanumeric	The Token received from the Tokenization process.	100		Op9Vmp
fort_id	Numeric	The order's unique reference returned by our system.	20		149295435400084008
payment_option	Alpha	Payment option.	10	- MASTERCARD - VISA - AMEX	
order_description	Alphanumeric	It holds the description of the order.	150		iPhone 6-S
customer_ip	Alphanumeric	It holds the customer's IP address.	45		**IPv4**→192.178.1.10 **IPv6**→2001:0db8:3042:0002:5a55:caff:fef6:bdbf

		*We support IPv4 and IPv6 as shown in the example on the right hand side.			
customer_name	Alpha	The customer's name.	40		John Smith
merchant_extra	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	999		JohnSmith
merchant_extra1	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra2	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra3	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra4	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
authorization_code	Alphanumeric	The authorization code returned from the 3rd party.	100		P1000000000000372136
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages).	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	
3ds_url	Alphanumeric	The URL where the Merchant redirects a customer whose card is 3-D Secure for authentication.	300		http://www.3dsecure.com
phone_number	Numeric	The customer's phone number.	19		00962797219966

settlement_ reference	Alphanume ric	The Merchant submits this value to the FORT. The value is then passed to the Acquiring bank and displayed to the merchant in the Acquirer settlement file.	34		XYZ9239-yu898

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

16. Bill Presentment

This service allows the Merchant to generate a unique bill numbers for Customer's orders using the FORT API. The Merchant displays or sends the unique bill number to the Customer. The Customer presents the unique bill number to PayFort's payment partners to pay for his order.

16.1 Bill Presentment URLs

Test Environment URL
https://sbpaymentservices.PayFort.com/FortAPI/paymentApi

Production Environment URL
https://paymentservices.PayFort.com/FortAPI/paymentApi

16.2 Parameters Submission Type

REST POST request using JSON.

16.3 Bill Presentment – Request

Include the following parameters in the Request you will send to PayFort:

Bill Presentment Request Parameters							
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/ Expected Values	Example
service_command	Alpha	Yes	Command.	20	_	BILL_PRESENTMENT	
access_code	Alphanumeric	Yes	Access Code.	20			zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number.	40	- _ .		XYZ2939-yu898
amount	Numeric	Yes	The transaction's amount. *Each currency has predefined allowed decimal points that should be taken into	10			10000

			consideration when sending the amount.				
currency	Alpha	Yes	The currency of the transaction's amount in ISO code 3.	3		EGP	
language	Alpha	Yes	Checkout page and messages language	2		-en -ar	
request_expiry_date	Alphanumeric	Yes	The date when the bill expires. *The merchant will hold the item till the expiry date. If the customer didn't pay, the holding will be canceled.	25	- : +		2017-12-20T15:36:55+03:00
payment_partner	Alpha	Yes	A financial corporation that generate bills to the customer.	5		FAWRY	
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a

NOTE!

Before sending the amount value of any transaction, you have to multiply the value with the currency decimal code according to ISO code 3.

For example: If the amount value was 500 AED; according to ISO code 3, you should multiply the value with 100 (2 decimal points); so it will be sent in the request as 50000.

Another example: If the amount value was 100 JOD; according to ISO code 3, you should multiply the value with 1000 (3 decimal points); so it will be sent in the request as 100000.

16.4 Bill Presentment – Response

The following parameters will be returned in PayFort's Response:

Bill Presentment Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Command.	20	BILL_PRESENTMENT	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ2939-yu898
amount	Numeric	The transaction's amount.	10		10000
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3	EGP	
language	Alpha	The checkout page and messages language.	2	- en - ar	
bill_number	Numeric	A unique number generated by PayFort to pay bills.	14		14823285500005
request_expiry_date	Alphanumeric	The date when the bill expires. *The merchant will hold the item till the expiry date. If the customer didn't pay, the holding will be canceled.	25		2017-12-20T15:36:55+03:00
payment_partner	Alpha	A financial corporation that generate bills to the customer.	5	FAWRY	
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages).	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

17. Digital Wallets

17.1 MasterPass Service

As another move towards a cashless environment, PayFort provides **MasterPass**; a digital wallet that securely stores the buyer's credit card details and shipping addresses and information, making shopping through thousands of online Merchants simple and convenient. This is fulfilled by enhancing and simplifying the buyer's digital shopping experience.

17.1.1 Integration Flow

1. The Merchant submits a form that includes all the parameters of the host-to-host request in addition to one extra parameter; digital_wallet. The Merchant calls the following URL to be redirected to the FORT:

   https://checkout.PayFort.com/FortAPI/paymentPage
2. The FORT returns a response to the Merchant.
3. The FORT inserts the response parameters into a JavaScript.
4. A lightbox appears to the buyer where he enters his credentials, selects the card type and the shipping address, and clicks "Finish Shopping".
5. The FORT either proceeds to Authorize or Purchase the payment based on the value of the command parameter sent in the Merchant's form.

NOTE!

If the Merchant sent the "payment_option" value in his request, the FORT will use the value found in the request, no matter what other options are supported by the Merchant. However, if this value wasn't sent in the Merchant's request, the FORT will retrieve all the payment options supported by the Merchant.

6. The FORT returns a response to the Merchant. (Please refer to section MaterPass Service - Response for the Response Parameters).

NOTE!

In the Redirection workflow, the "Channel" will always be considered **Redirection** and the "Default Operation**"** won't be considered.

An Example Request:

```
<form action="https://sbcheckout.PayFort.com/FortAPI/paymentPage" method="post" id="simulatorForm">
<input type="hidden" name="return_url" id="return_url" value="http://backtothemerchanturl.com"/>
<input type="hidden" name="merchant_identifier" id="merchant_identifier" value="FYIxxxx"/>
<input type="hidden" name="currency" id="currency" value="USD"/>
<input type="hidden" name="merchant_reference" id="merchant_reference" value="1231231xxxxx"/>
<input type="hidden" name="amount" id="amount" value="900"/>
<input type="hidden" name="language" id="language" value="en"/>
<input type="hidden" name="command"id="command" value="AUTHORIZATION"/>
<input type="hidden" name="payment_option"id="payment_option" value="VISA"/>
<input type="hidden" name="access_code" id="access_code" value="0NTDByJfS7xxxxx"/>
<input type="hidden" name="customer_email" id="customer_email" value="someone@email.com"/>
<input type="hidden" name="customer_name" id="customer_name" value="someone"/>
<input type="hidden" name="order_description" id="order_description" value="Jordan"/>
<input type="hidden" name="digital_wallet" id="digital_wallet" value="MASTERPASS"/>
<input type="hidden" name="cart_details" id="cart_details"
value='{"sub_total":"900","cart_items":[{"item_description":"Xbox","item_image":"http://image.com","item_name":"Xbox
360","item_price":"300","item_quantity":"2"},{"item_description":"Playstation
3","item_image":"http://image.com","item_name":"Playstation 3","item_price":"150","item_quantity":"2"}]}'/>
<input type="hidden" name="signature" id="signature" value="e94d9f49b7ba2ac2cf86c5176d4e91b2c9a6569b"/>

<input value="Send" type="submit">
</form>
```

17.1.2 MasterPass Service URLs

Test Environment URL
https://sbcheckout.PayFort.com/FortAPI/paymentPage

Production Environment URL
https://checkout.PayFort.com/FortAPI/paymentPage

17.1.3 Parameters Submission Type

HTTPs Form Post Request.

17.1.4 MasterPass Service – Request

Include the following parameters in the Request you will send to PayFort:

MasterPass Service Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
digital_wallet	Alpha	Yes	The buyer's digital wallet.	100		MASTERPASS	
command	Alpha	Yes	Command.	20		- AUTHORIZATION - PURCHASE	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number.	40	- _ .		XYZ9239-yu898
amount	Numeric	Yes	The transaction's amount. *Each currency has predefined allowed decimal points that should be taken into consideration when sending the amount.	10			10000
currency	Alpha	Yes	The currency of the transaction's amount in ISO code 3.	3			AED
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
customer_email	Alphanumeric	Yes	The customer's email.	254	_ - . @		customer@domain.com
cart_details	Alphanumeric	Yes	This parameter is a parent parameter for other	999	$		*Check the note below the table*

			parameters that contain the details of the shopping cart created by the Merchant.				
cart_items	Alphanumeric	Yes	The items of the shopping cart.	999	$		Tshirt
item_price	Numeric	Yes	The price of a cart item.	10			700
sub_total	Numeric	Yes	The total price of the cart items.	10			550
item_description	Alphanumeric	Yes	A description of a cart's item.	256	- _ ' , . **Space**		iPhone 6-S
item_image	Alphanumeric	Yes	A URL to the item's image.	500	# / : . _ = ? & -		https://www.image.com
item_name	Alphanumeric	Yes	The name of an item in the shopping cart.	100	**Space**		Item1
item_quantity	Alphanumeric	Yes	The quantity of a cart item.	50			4
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
order_description	Alphanumeric	No	It holds the description of the order.	150	# ' / .		iPhone 6-S

					_ - : $ **Space**		
payment_option	Alpha	No	Payment option.	10		- MASTERCARD - VISA	
customer_ip	Alphanumeric	No	It holds the customer's IP address. *It's Mandatory if the fraud service is active. *We support IPv4 and IPv6 as shown in the example on the right hand side.	45	. :		**IPv4**→192.178.1.10 **IPv6**→2001:0db8:3042:0002:5a55:caff:fef6:bdbf
customer_name	Alpha	No	The customer's name.	40	_ \ / - . ' **Space**		John Smith
phone_number	Numeric	No	The customer's phone number.	19	+ -		00962797219966
settlement_reference	Alphanumeric	No	The Merchant submits this value to the FORT. The value is then passed to the Acquiring bank and displayed to the merchant in the Acquirer settlement file.	34	- _ .		XYZ9239-yu898
return_url	Alphanumeric	No	The URL of the Merchant's page to be displayed to the customer when the order is processed.	400	$! = ? # & _		http://www.merchant.com

					- / : .		

NOTE!

The following is an example for "cart_details" parameter:

<input type="hidden" name="cart_details" id="cart_details" value='{"sub_total":"900","cart_items":[{"item_description":"Xbox","item_image":"http://image.com","item_name":"Xbox 360","item_price":"300","item_quantity":"2"},{"item_description":"Playstation 3","item_image":"http://image.com","item_name":"Playstation 3","item_price":"150","item_quantity":"2"}]}'/>

NOTE!

Before sending the amount value of any transaction, you have to multiply the value with the currency decimal code according to ISO code 3.

For example: If the amount value was 500 AED; according to ISO code 3, you should multiply the value with 100 (2 decimal points); so it will be sent in the request as 50000.

Another example: If the amount value was 100 JOD; according to ISO code 3, you should multiply the value with 1000 (3 decimal points); so it will be sent in the request as 100000.

17.1.5 MasterPass Service – Response

The following parameters will be returned in PayFort's Response:

MasterPass Service Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
digital_wallet	Alpha	The buyer's digital wallet.	100	MASTERPASS	
command	Alpha	Command.	20	- AUTHORIZATION - PURCHASE	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ9239-yu898

amount	Numeric	The transaction's amount.	10		10000
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		AED
language	Alpha	The checkout page and messages language.	2	- en - ar	
customer_email	Alphanumeric	The customer's email.	254		customer@domain.com
cart_details	Alphanumeric	This parameter is a parent parameter for other parameters that contain the details of the shopping cart created by the Merchant.	999		
cart_items	Alphanumeric	The items of the shopping cart.	999		Tshirt
item_price	Numeric	The price of a cart item.	10		700
sub_total	Integer	The total price of the cart items.	6		550
item_description	Alphanumeric	A description of a cart's item.	256		iPhone 6-S
item_image	Alphanumeric	A URL to the item's image.	500		https://www.image.com
item_name	Alphanumeric	The name of an item in the shopping cart.	100		Item1
item_quantity	Alphanumeric	The quantity of a cart item.	10		4
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
order_description	Alphanumeric	It holds the description of the order.	150		iPhone 6-S
payment_option	Alpha	Payment option.	10	- MASTERCARD - VISA	
customer_ip	Alphanumeric	It holds the customer's IP address. *We support IPv4 and IPv6 as shown in the example on the right hand side.	45		**IPv4**→192.178.1.10 **IPv6**→2001:0db8:3042:0002:5a55:caff:fef6:bdbf
customer_name	Alpha	The customer's name.	40		John Smith
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages).	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response	5		20064

		status, and the last 3 digits represent the response message.			
authorization_code	Alphanumeric	The authorization code returned from the 3rd party.	100		P1000000000000372136
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	
phone_number	Numeric	The customer's phone number.	19		00962797219966
settlement_reference	Alphanumeric	The Merchant submits this value to the FORT. The value is then passed to the Acquiring bank and displayed to the merchant in the Acquirer settlement file.	34		XYZ9239-yu898
lightbox_callback_url	Alphanumeric	The URL where MasterPass is redirected to the FORT.	400		
lightbox_merchant_checkout_id	Alphanumeric	When a Merchant is added to MasterPass, MasterPass generates this ID.	100		a4a6w4cmliej1igb8j5ha1igi4spzo4xxx
lightbox_version	Alphanumeric	The lightbox version to determine which version to be used.	5		V2
lightbox_allowed_card_types	Alpha	The card types supported by the Merchant. (A MasterPass parameter).	150		MasterCard
lightbox_request_token	Alphanumeric	A token sent by MasterPass to identify the lightbox transaction. (A MasterPass parameter).	100		61c593e2b3524bc7694f893098cbb6dc8611b63a
return_url	Alphanumeric	The URL of the Merchant's page to be displayed to the customer when the order is processed.	400		http://www.merchant.com

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

17.2 Visa Checkout Service

Visa Checkout is a digital wallet that securely stores the buyer's credit card details and shipping addresses and information, making shopping through thousands of online Merchants simple and convenient. This service enhances and simplifies the buyer's online shopping experience. **Visa Checkout** can be offered through two different integrations:

17.2.1 Merchant Hosted Visa Checkout Button

This integration allows the Merchant to host Visa Checkout button on his website giving him maximum control over the look and feel and user experience. The following steps describe how this integration works:

1. The Merchant should include the following JavaScript in the HTML header of its checkout page. This JavaScript loads the Visa Checkout library and defines handlers to initialization and payment events.

```
<head>
<script type="text/javascript">
        function onVisaCheckoutReady() {
          V.init({
                apikey : "#API_KEY#", // This will be provided by PayFort
                externalProfileId : "#PROFILE_NAME#", // This will be provided by PayFort
                settings : {
                        locale : "en_AE",
                        countryCode : "AE", // depends on ISO-3166-1 alpha-2 standard codes
                        review : {
                                message : "Merchant defined message", //
                                buttonAction : "Continue" // The button label
                        },
                        threeDSSetup : {
                                threeDSActive : "false" // true to enable the 3ds false to disable it
                        }
                },
                paymentRequest : {
                        currencyCode : "USD", //depends on ISO 4217 standard alpha-3 code values
                        subtotal : "10.00", // Subtotal of the payment.
                }
          });
          V.on("payment.success", function(payment) {
                document.write(JSON.stringify(payment)); // response when received success operation
          });
          V.on("payment.cancel", function(payment) {
                document.write(JSON.stringify(payment)); // response when cancel operation
          });
          V.on("payment.error", function(payment, error) {
                document.write(JSON.stringify(payment));// response when received error operation
                document.write(error);
          });
        }
</script>
</head>
```

2. The Merchant should use the following class to render Visa Checkout button that a consumer clicks to initiate a payment.

```
<body>
   <img alt="Visa Checkout" class="v-button" role="button"
   src="https://sandbox.secure.checkout.visa.com/wallet-services-web/xo/button.png?cardBrands=VISA,MASTERCARD"
   />
</body>
```

Use the following URLs for test and production environments:

Test Environment URL
https://sandbox.secure.checkout.visa.com/wallet-services-web/xo/button.png

Production Environment URL
https://secure.checkout.visa.com/wallet-services-web/xo/button.png

3. The Merchant should use the following JavaScript to control the operation on Visa Checkout on the website.

```
<body>
    <script type="text/javascript"
    src="https://sandbox-assets.secure.checkout.visa.com/checkout-widget/resources/js/integration/v1/sdk.js">
    </script>
</body>
```

Use the following URLs for test and production environments:

Test Environment URL
https://sandbox-assets.secure.checkout.visa.com/checkoutwidget/resources/js/integration/v1/sdk.js

Production Environment URL
https://assets.secure.checkout.visa.com/checkout-widget/resources/js/integration/v1/sdk.js

4. After completing the previous steps, the consumer clicks on Visa Checkout button, Visa Checkout light box appears and the user complete the checkout process.

5. The Merchant receives a successful response. The response associated with the payment success event returns list of parameters. The Merchant has to collect the value of “call_id” parameter to be used in the following step.

6. The Merchant submits Purchase request to the FORT adding 2 extra parameters: digital-wallet, call_id. Please refer to Merchant Hosted Visa Checkout - Request for more details.

NOTE!
Merchants Page should be activated for to accept Purchase/ Authorization transactions.

7. The Merchant system receives the FORT's purchase request and then uses Visa Checkout update image pixel. Below you can find an example of how to use Visa Checkout update image pixel. Please refer to "Visa checkout PayFort documentation" for more details.

```
<img src="https://sandbox.secure.checkout.visa.com/wallet-services-web/payment/updatepaymentinfo.gif?
apikey=...&callId=...&currencyCode=USD&total=11.00&subtotal=11.00" />
```

The following example shows an HTML web page that loads the Visa Checkout library, defines handlers for initialization and payment events, and creates a Visa Checkout button:

```
<html>
<head>
<script type="text/javascript">
        function onVisaCheckoutReady() {
                V.init({
                        apikey : "#API_KEY#", // This will be provided by PayFort
                        externalProfileId : "#PROFILE_NAME#", // This will be provided by PayFort
                        settings : {
                                locale : "en_AE",
                                countryCode : "AE", // depends on ISO-3166-1 alpha-2 standard codes
                                review : {
                                        message : "Merchant defined message", //
                                        buttonAction : "Continue" // The button label
                                },
                                threeDSSetup : {
                                        threeDSActive : "false" // true to enable the 3ds false to disable it
                                }
                        },
                        paymentRequest : {
                                currencyCode : "USD", //depends on ISO 4217 standard alpha-3 code values
                                subtotal : "10.00", // Subtotal of the payment.
                        }
                });
                V.on("payment.success", function(payment) {
                        document.write(JSON.stringify(payment)); // response when received success operation
                });
```



```
                V.on("payment.cancel", function(payment) {
                        document.write(JSON.stringify(payment)); // response when cancel operation
                });
                V.on("payment.error", function(payment, error) {
                        document.write(JSON.stringify(payment));// response when received error operation
                        document.write(error);
                });
        }
</script>
</head>
<body>
        <img alt="Visa Checkout" class="v-button" role="button"src="https://sandbox.secure.checkout.visa.com/wallet-services-web/xo/button.png?cardBrands=VISA,MASTERCARD,DISCOVER,AMEX" />
        <script type="text/javascript" src="https://sandbox-assets.secure.checkout.visa.com/checkout-widget/resources/js/integration/v1/sdk.js">
</script>
</body>
</html>
```

17.2.1.1 Merchant Hosted Visa Checkout – Request

Include the following parameters to the Merchant page operation – Request parameters:

Merchant Hosted Visa Checkout Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
digital_wallet	Alpha	Yes	The buyer's digital wallet.	100	_	VISA_CHECKOUT	
call_id	Alphanumeric	Yes	Visa Checkout transaction ID, returned by Visa Checkout light box response as “callId” parameter.	100			300054551147939 2001

NOTE!
- Exclude the Token name from the Merchant Page Purchase or Authorization operation request.

17.2.1.2 Merchant Hosted Visa Checkout – Response

The following parameters will be returned in PayFort's Response in additional to the Merchant page operation - Response parameters:

Merchant Hosted Visa Checkout Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
digital_wallet	Alpha	The buyer's digital wallet.	100	VISA_CHECKOUT	
call_id	Alphanumeric	Visa Checkout transaction ID, returned by Visa Checkout light box response as "callId" parameter.	100		30005455114 79392001

NOTE!
Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

17.2.2 PayFort Hosted Visa Checkout Button

This integration allows the Merchant to integrate Visa Checkout using PayFort hosted checkout button. The following steps describe how this integration works:

1. The user clicks on the pay button on the Merchant checkout page.
2. The Merchant submits a Purchase or Authorization request in addition to one extra parameter: digital_wallet. (Please refer to PayFort Hosted Visa Checkout - Request for more details).
3. The user is redirected to a page hosted on PayFort where Visa Checkout light-box page is displayed.

NOTE!
Merchants are able to fully customize the redirection page where Visa Checkout light-box page appear using the FORT's back office.

4. The user enters his credential and complete Visa Checkout process.
5. PayFort processes the transaction and return a valid response back to the Merchant.

NOTE!
- PayFort will update transactions automatically for Merchants using PayFort hosted Visa Checkout integration.

- PayFort automatically update the transaction on Visa Checkout system.

17.2.2.1 PayFort Hosted Visa Checkout – Request

Include the following parameter to the redirection request parameters (Please refer to Authorization/ Purchase – Request section)

PayFort Hosted Visa Checkout Request Parameters						
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/ Expected Values
digital_wallet	Alpha	Yes	The buyer's digital wallet.	100	_	VISA_CHECKOUT

17.2.2.2 PayFort Hosted Visa Checkout – Response

The following parameters will be returned in PayFort's Response in additional to the Authorization/ Purchase - Response parameters:

PayFort Hosted Visa Chcekout Response Parameters				
Parameter Name	Type	Description	Length	Possible/ Expected Values
digital_wallet	Alpha	The buyer's digital wallet.	100	VISA_CHECKOUT

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

18. Other PayFort Services

18.1 FORT Tokenization Service

The Token service allows the Merchant to store the Customer's credit card details in a safe and secure environment and substituting the Customer's sensitive card details with a non-sensitive equivalent referred to as a Token. The Token can be used to process transactions without the use of the card details.

NOTE!

- This service can be used in BOTH "Authorization" and "Purchase" operations.

- PayFort's operations team must activate the Tokenization service.

-The Customer should agree to save his/ her card details.

- The Token will be stored only if the card is valid and if the transaction was processed successfully.

18.1.1 Create Token in Transaction Flow

To create a new Token, include the following parameter in the Authorization/ Purchase Request you will send to PayFort; the same parameter will hold the Token name in PayFort's Response:

Create a New Token Request / Response Parameters						
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Example**
token_name	Alphanumeric	No	Holds the name of the Token to update the Token or rename it.	100	. @ - _	Op9Vmp

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

18.1.2 Create New Token Service

This service allows Merchants to verify and tokenize their Customer's credit cards without charging their Customers.

18.1.2.1 FORT Tokenization Service URLs

Test Environment URL
https://sbcheckout.PayFort.com/FortAPI/paymentPage

Production Environment URL
https://checkout.PayFort.com/FortAPI/paymentPage

18.1.2.2 Parameters Submission Type

HTTPs Form Post Request.

18.1.2.3 Create New Token Service – Request

Include the following parameters in the Request you will send to PayFort:

Create New Token Service Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Yes	Command.	20		CREATE_TOKEN	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number.	40	- _ .		XYZ9239-yu898
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
card_number	Numeric	Yes	The clear credit card's number.	16			400555******0001

expiry_date	Numeric	Yes	The card's expiry date.	4			2105
return_url	Alphanumeric	Yes	The URL of the Merchant's page to be displayed to the customer when the order is processed.	400	$! = ? # & _ - / : .		http://www.merchant.com
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
currency	Alpha	No	The currency of the transaction's amount in ISO code 3.	3			USD
token_name	Alphanumeric	No	The token received from the Tokenization process.	100	. @ - _		Op9Vmp
card_holder_name	Alpha	No	The card holder name.	50	. - '		John Smith

18.1.2.4 Create New Token Service – Response

The following parameters will be returned in PayFort's Response:

Create New Token Service Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Command.	20	CREATE_TOKEN	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ9239-yu898
language	Alpha	The checkout page and messages language.	2	- en - ar	
card_number	Numeric	The clear credit card's number.	16		400555******0001
expiry_date	Numeric	The card's expiry date.	4		2105
return_url	Alphanumeric	The URL of the Merchant's page to be displayed to the customer when the order is processed.	400		http://www.merchant.com
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		USD
token_name	Alphanumeric	The Token received from the Tokenization process.	100		Op9Vmp
card_holder_name	Alpha	The card holder name	50		John Smith
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages).	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	

NOTE!
Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

18.1.3 Update Token Service

This service enables you to update your token details associated with the status of a token via API calls.

18.1.3.1 Update Token Service URLs

Test Environment URL
https://sbpaymentservices.payfort.com/FortAPI/paymentApi

Production Environment URL
https://paymentservices.payfort.com/FortAPI/paymentApi

18.1.3.2 Parameters Submission Type

REST POST request using JSON.

18.1.3.3 Update Token Service – Request

Include the following parameters in the Request you will send to PayFort:

Update Token Service Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Yes	Command.	20	_	UPDATE_TOKEN	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number.	40	- _ .		XYZ9239-yu898
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	

token_name	Alphanumeric	Yes	The token received from the Tokenization process.	100	. @ - _		Op9Vmp
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
expiry_date	Numeric	No	The card's expiry date.	4			2105
card_holder_name	Alpha	No	The card holder name	50	. - '		John Smith
currency	Alpha	No	The currency of the transaction's amount in ISO code 3.	3			USD
token_status	Alpha	No	Presents the token status.	8		-ACTIVE -INACTIVE	
new_token_name	Alphanumeric	No	The new name used to update the existing token.	100	_ - @ .		Test1

18.1.3.4 Update Token Service – Response

The following parameters will be returned in PayFort's Response:

Update Token Service Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Command.	20	UPDATE_TOKEN	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ9239-yu898
language	Alpha	The checkout page and messages language.	2	- en - ar	
token_name	Alphanumeric	The Token received from the Tokenization process.	100		Op9Vmp

signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
expiry_date	Numeric	The card's expiry date.	4		2105
card_number	Numeric	The clear credit card's number.	16		400555******0001
card_holder_name	Alpha	The card holder name	50		John Smith
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		USD
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages).	
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		58000
token_status	Alpha	Presents the token status.	8	-ACTIVE -INACTIVE	
creation_date	Alphanumeric	Creation date of content in UTC format.	30		2017-03-13T10:09:19+02:00
card_brand	Alpha	Issuer account type.	10	- MASTERCARD - VISA - AMEX	
card_bin	Numeric	The first 6 digits of the card number.	6		478773
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses)	

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

18.2 3-D Secure Service

This service provides cardholders a decreased risk of other people being able to use their payment cards fraudulently on the Merchant's site.

Include the following parameters in the Request you will send to PayFort:

3-D Secure Service Request Parameters						
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/ Expected Values
check_3ds	Alpha	No	This parameter allows the Merchant to deactivate the 3-D Secure service per transaction. This parameter can be used with both Authorization and Purchase transactions.	2		NO

NOTE!

Please note that PayFort's operations team must activate the 3-D Secure service.

18.3 Currency Exchange Service

This service allows the Merchant to convert the transaction amount from one currency into another currency using live currency exchange rate.

18.3.1 Currency Exchange URLs

Test Environment URL
https://sbpaymentservices.PayFort.com/FortAPI/paymentApi

Production Environment URL
https://paymentservices.PayFort.com/FortAPI/paymentApi

18.3.2 Parameters Submission Type

REST POST request using JSON.

18.3.3 Currency Exchange – Request

Include the following parameters in the Request you will send to PayFort:

Currency Exchange Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Yes	Command.	20	_	CURRENCY_CONVERSION	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
amount	Numeric	Yes	The transaction's amount. *Each currency has predefined allowed decimal points that should be taken into consideration when sending the amount.	10			10000
currency	Alpha	Yes	The currency of the transaction's amount in ISO code 3.	3			USD
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
converted_currency	Alpha	Yes	The ISO3 currency code of the currency you are converting the amount.	3			AED
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a

			Signature for more details).				

NOTE!

Before sending the amount value of any transaction, you have to multiply the value with the currency decimal code according to ISO code 3.

For example: If the amount value was 500 AED; according to ISO code 3, you should multiply the value with 100 (2 decimal points); so it will be sent in the request as 50000.

Another example: If the amount value was 100 JOD; according to ISO code 3, you should multiply the value with 1000 (3 decimal points); so it will be sent in the request as 100000.

18.3.4 Currency Exchange – Response

The following parameters will be returned in PayFort's Response:

Currency Exchange Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
service_command	Alpha	Command.	20	CURRENCY_CONVERSION	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
amount	Numeric	The transaction's amount.	10		10000
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		USD
language	Alpha	The checkout page and messages language.	2	- en - ar	
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
response_message	Alphanumeric	Message description of the response code. It returns according to the request language.	150	(Please refer to section Messages).	

response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	
converted_amount	Numeric	The amount after converting to another currency.	10		100 USD = 367.298 AED
converted_cerrency	alpha	The ISO3 currency code of the currency you are converting the amount to.	3		AED
conversion_number	Alphanumeric	A unique number generated by PayFort for every valid currency conversion request.	20		1443796866848

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

19. In Common

19.1 Query Operations

A type of query that can be requested through our system, which includes the "Check Status" query.

19.1.1 Check Status

Check Status allows the Merchant to check the status of a specific order and the status of the latest operation performed on that order.

19.1.1.1 URLs

Test Environment URL
https://sbpaymentservices.PayFort.com/FortAPI/paymentApi

Production Environment URL
https://paymentservices.PayFort.com/FortAPI/paymentApi

19.1.1.2 Parameters Submission Type

REST POST request using JSON.

19.1.1.3 Check Status – Request

Include the following parameters in the Request you will send to PayFort:

Check Status Request Parameters							
Parameter Name	**Type**	**Mandatory**	**Description**	**Length**	**Special Characters**	**Possible/ Expected Values**	**Example**
query_command	Alpha	Yes	Query operations command.	50	_	CHECK_STATUS	
access_code	Alphanumeric	Yes	Access code.	20			zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number. *You have the option to send "fort_id" instead of "merchant_reference",	40	- _ .		XYZ9239-yu898

			or you can send them BOTH.				
language	Alpha	Yes	The checkout page and messages language.	2		- en - ar	
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
fort_id	Numeric	No	The order's unique reference returned by our system.	20			149295435400084008

NOTE!
You can send "merchant_reference" and/ or "fort_id" in the check-status request.

19.1.1.4 Check Status – Response

The following parameters will be returned in PayFort's Response:

Check Status Response Parameters					
Parameter Name	**Type**	**Description**	**Length**	**Possible/ Expected Values**	**Example**
query_command	Alpha	Query operations command.	50	CHECK_STATUS	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ9239-yu898
language	Alpha	The checkout page and messages language.	2	- en - ar	
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
fort_id	Numeric	The order's unique reference returned by our system.	20		149295435400084008
response_message	Alphanumeric	Message description of the response code. It is returned	150	(Please refer to section Messages).	

		according to the request language.			
response_code	Numeric	Response code carries the value of our system's response. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5		20064
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	
transaction_status	Numeric	The status of the last operation performed on a specific order.	2	(Please refer to section Statuses).	
transaction_code	Numeric	The message code returned for the last operation performed on a specific order. *The code consists of five digits, the first 2 digits represent the response status, and the last 3 digits represent the response message.	5	(Please refer to section Messages).	
transaction_message	Alphanumeric	The message returned for the last operation performed on a specific order.	150		success
refunded_amount	Numeric	The total refunded amount for the order.	10		10000
captured_amount	Numeric	The total captured amount for the order.	10		10000
authorized_amount	Numeric	The total authorized amount for the order.	10		10000

NOTE!

Every parameter the Merchant sends in the Request should be received by the Merchant in the Response - even the optional ones.

19.2 Service Activation

Services are activated for our Merchants by our back-office team. Once you open your Merchant account and click "Payment Stack" under the **Services** tab, the following page appears displaying your activated services:

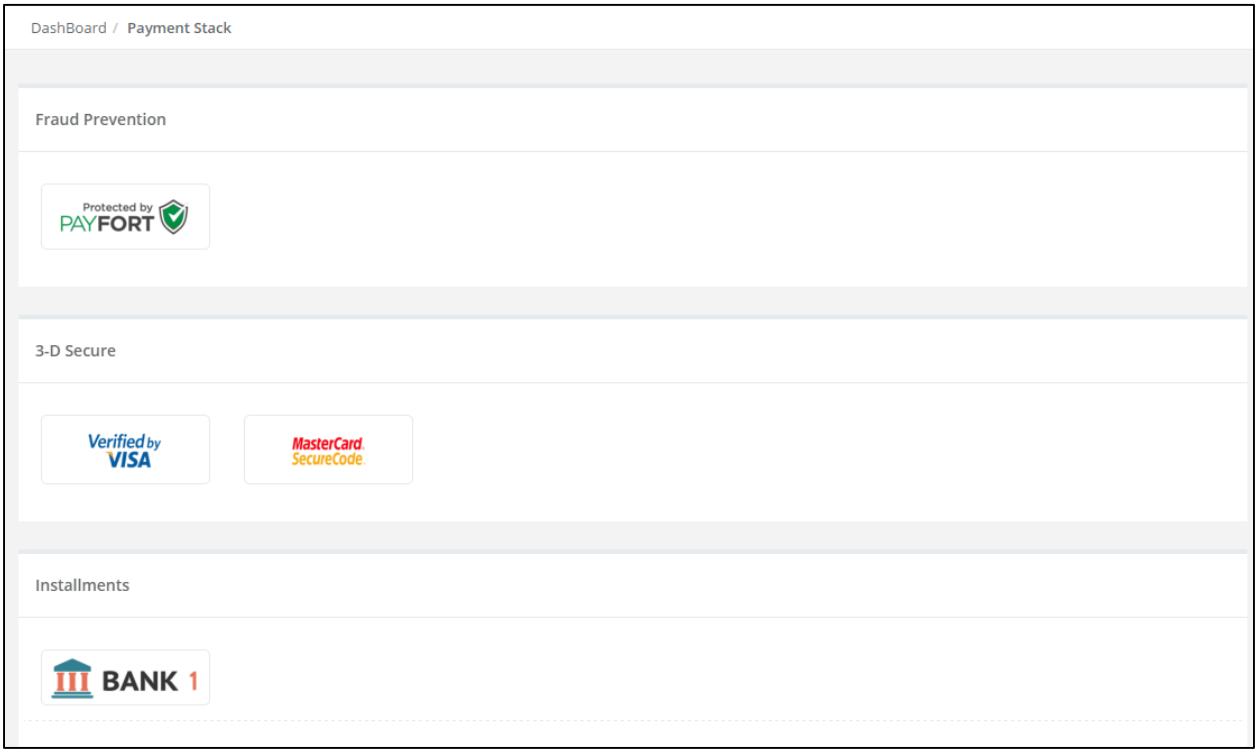

Figure 5: Services - Payment Stack

19.2.1 Fraud Prevention

To manage the Fraud Prevention service, click the image under **Fraud Prevention**. The following page (figure 6) appears:

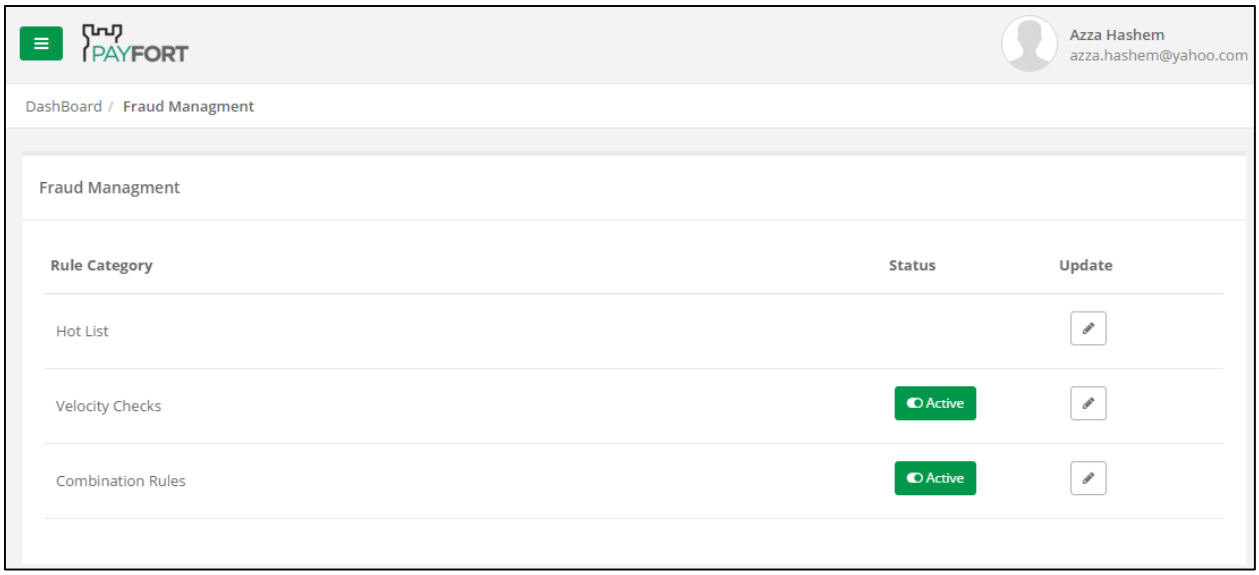

Figure 6: Services – Payment Stack – Fraud Prevention – Fraud Management

The previous page (figure 6) displays the rules related to the Fraud Prevention service and whether they're already activated or not. A green "Active" tab appears next to the activated Fraud Prevention rule. You can deactivate the active rules by clicking the "Active tab" and vice versa. You can also update (block a certain email/ IP/ Country, add a Utilization, or add a Card Country) a certain rule by clicking the "Update" icon.

19.2.2 3-D Secure

This service is activated by default for all Merchants.

19.2.3 Installments

As shown in the following figure (figure 7) the Installments section in the Payment Stack page displays both your issuers as well as all the issuers that deal with the **FORT**. However, issuers you don't deal with will appear shadowed.

Figure 7: Services – Payment Stack – Installments

To activate an issuer, you need to contact the PayFort's back-office team and they will activate it for you from their side.

19.2.4 Tokenization

To manage the Tokenization service, click "Token Management" under the **Services** tab where the currently activated Tokens appear:

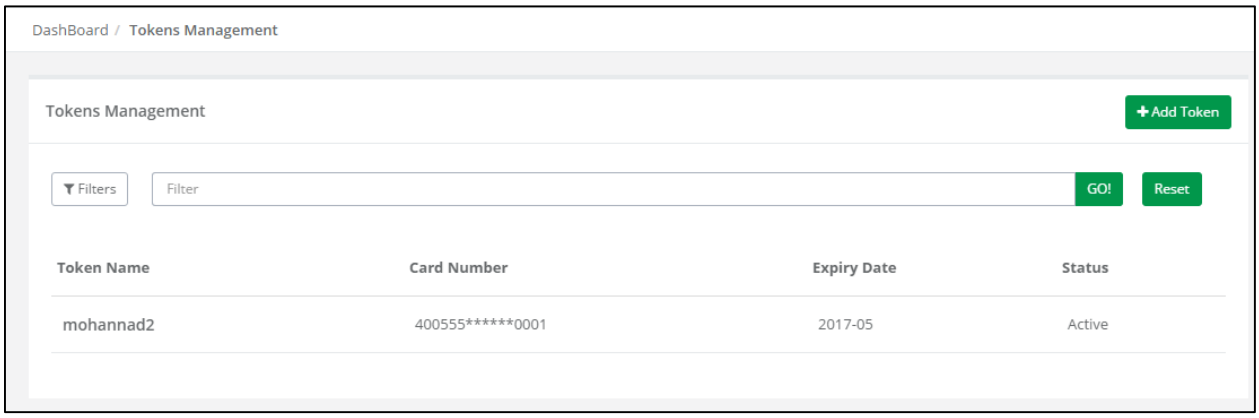

Figure 8: Services – Token Management

You can activate/ deactivate the current Tokens by clicking on the Token name **(Figure 8)** and changing its status from the page that appears:

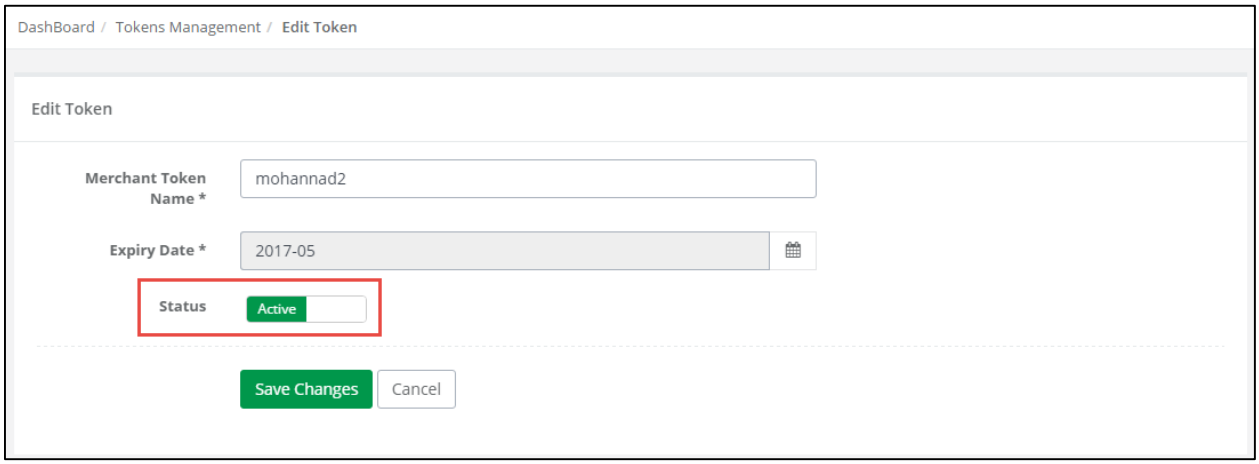

Figure 9: Services – Token Management – Edit Token (Activate/ Deactivate)

19.3 Signature

A parameter that holds the digital signature value calculated by the SHA algorithm. The digital signature is used to authenticate the sender and receiver of the message and allows the receiver to verify the integrity of the message.

19.3.1 Message Digest

Name	Values	Description
SHA Type	* SHA-256 * SHA-512 * SHA 128 (Not recommended).	The Secure Hash Algorithm is a family of cryptographic hash functions published by the National Institute of Standards and Technology (NIST) as a U.S. Federal Information Processing Standard (FIPS), including: SHA-0, SHA-1, SHA-2, SHA-3.
SHA Request Phrase	Dynamic value defined by the Merchant.	This value is used when the Merchant generates the request signature.
SHA Response Phrase	Dynamic value defined by the Merchant.	This value is used by our system to generate the response signature for the Merchant's Request.

19.3.2 Signature Pattern

The below steps describe the signature pattern:

1. Sort all PayFort requests parameters (both mandatory and optional) in an ascending alphabetical order based on the parameters names.
2. Concatenate the parameter name with the value separated by '=' (param_name=param_value).
3. Concatenate all the parameters directly without any separator.

   (param_name1=param_value1param_name2=param_value2).
4. Add the Merchant's Passphrase at the beginning and end of the parameters string.

   (REQUESTPHRASEparam_name1=param_value1param_name2=param_value2REQUESTPHRASE).
5. Use the SHA function to generate the SHA value of the resulted string depending on the type of SHA selected by the Merchant.

19.3.3 Create Signature Value

In this section, you can find examples on how to create the signature value for request and response messages. Please note that all values mentioned in the examples are fictitious.

The following is an example of the Request Parameters:

command = PURCHASE

merchant_reference = Test010

amount = 1000

access_code = SILgpo7pWbmzuURp2qri

merchant_identifier = MxvOupuG

currency = USD

language = en

customer_email = test@gmail.com

Below are the Merchant signature settings on the back-office:

SHA Request Phrase: PASS.

SHA-Type: SHA-256.

After sorting the parameters and completing step 4 of the Signature Pattern, the result will be the following concatenated string:

```
PASSaccess_code=SILgpo7pWbmzuURp2qriamount=1000command=PURCHASEcurrency=USDcustomer_email=test@gmail.comlanguage=enmerchant_identifier=MxvOupuGmerchant_reference=Test010PASS
```

After applying step 5 of the Signature pattern, the result will be as follows:

```
Signature = 94C38AFC7BDAE0114FC8C740EDF12416F22998241CE4B4EA70D5521233A2C882
```

The following is an example for the Merchant Page 2.0 request signature calculations:

NOTE!

The calculations for the Merchant Page 2.0 require you to calculate the signature without including the following parameters in the signature even if these parameters included in the request of Merchant Page 2.0: card_security_code, card_number, expiry_date, card_holder_name, remember_me.

Assume you have the below parameters included in the request of Merchant Page 2.0:

- service_command = TOKENIZATION
- language = en
- merchant_identifier = MxvOupuG
- access_code = SILgpo7pWbmzuURp2qri
- merchant_reference = MyReference0001
- card_security_code = 123
- card_number = 4005550000000001
- expiry_date = 2105
- remember_me = YES
- card_holder_name = John Smith

Below are the Merchant signature settings from the back-office:

SHA Request Phrase: PASS.

SHA-Type: SHA-256.

The string to hash should be prepared for the above request is the following “step 4 of the Signature Pattern”:

```
PASSaccess_code=SILgpo7pWbmzuURp2qrilanguage=enmerchant_identifier=MxvOupuGmerchant_reference=MyReference0001service_command=TOKENIZATIONPASS
```

After applying step 5 of the Signature pattern, the result will be as follows:

```
Signature = 7EE560CCD621DA61BFC772F2F1B5849BABDA768F5EE36D4DE67EFA88403E4B99
```


The following is an example for the Reporting API request signature calculations:

Assume you have the below parameters included in the request of Reporting API:

- query_command = GENERATE_REPORT
- access_code = zx0IPmPy5jp1vAzBPlWT
- merchant_identifier = shouldbegenerated
- merchant_reference = MyReference0001
- columns = [acquirer_name, authorization_code, amount, bin_number]
- filters = [{key=acquirer_name, value=Acquirer Simulator}, {key=authorization_code, value=751689}, {key=bin_number, value=341946}]
- from_date = 2017-08-16T00:00:01+03:00
- to_date = 2017-08-22T23:59:59+03:00
- response_format = JSON

Below are the Merchant signature settings on the back-office:

SHA Request Phrase: PASS.

SHA-Type: SHA-256.

The string to hash should be prepared for the above request is the following **step 4** of the Signature Pattern:

NOTE!

- In the columns parameter; you should:
  1. Open brackets.
  2. Put a “comma” then a “space” between the columns value.

Example: columns=[acquirer_name, authorization_code, amount, bin_number]

- In the filters parameter; you should:
  1. Open brackets.
  2. Then open a curly brackets.
  3. Write the “key”
  4. Put a “comma” then a “space.
  5. Write the “value” of the key.

Example: filters=[{key=acquirer_name, value=Acquirer Simulator}, {key=authorization_code, value=751689}, {key=bin_number, value=341946}]

PASSaccess_code=zx0IPmPy5jp1vAzBPlWTcolumns=[acquirer_name, authorization_code, amount, bin_number]filters=[{key=acquirer_name, value=Acquirer Simulator}, {key=authorization_code, value=751689}, {key=bin_number, value=341946}]from_date=2017-08-16T00:00:01+03:00merchant_identifier=shouldbegeneratedmerchant_reference=MyReference0001query_command=GENERATE_REPORTresponse_format=JSONto_date=2017-08-22T23:59:59+03:00PASS

After applying **step 5** of the Signature pattern, the result will be as follows:

Signature = 2be0075bd5eb99c9d1d4eedd2eb597e5ed4391085391e4ecd90894a601aa25a1

PayFort Gateway includes the signature in the Response so you can check the integrity of the received data. You do this by calculating the secure hash using the above method, then comparing your calculation with the value you received from PayFort Gateway. If the values match, then you can be assured that we received the data you sent, and you received the data we sent.

19.4 Transaction's Response Codes

The Response code is made up of 5 digits; a combination of a 2-digit Status (Please see section Statuses) and a 3-digit Message (Please see section Messages).

19.4.1 Statuses

Status Code	Description
00	Invalid Request.
01	Order Stored.
02	Authorization Success.
03	Authorization Failed.
04	Capture Success.
05	Capture Failed.
06	Refund Success.
07	Refund Failed.
08	Authorization Voided Successfully.
09	Authorization Void Failed.
10	Incomplete.
11	Check Status Failed.
12	Check Status Success.
13	Purchase Failure.
14	Purchase Success.

15	Uncertain Transaction.
17	Tokenization Failed.
18	Tokenization Success.
19	Transaction Pending.
20	On Hold.
21	SDK Token Creation Failure.
22	SDK Token Creation Success.
23	Failed to Process Digital Wallet Service.
24	Digital Wallet Order Processed Successfully.
27	Check Card Balance Failed.
28	Check Card Balance Success.
29	Redemption Failed.
30	Redemption Success.
31	Reverse Redemption Transaction Failed.
32	Reverse Redemption Transaction Success.
40	Transaction in Review.
42	Currency Conversion Success.
43	Currency Conversion Failed.
46	Bill Creation Success.
47	Bill Creation Failed.
48	Generating Invoice Payment Link Success.
49	Generating Invoice Payment Link Failed.
52	Token Created Successfully.
53	Token Creation Failed.
58	Token Updated Successfully.
59	Token Updated Failed.

19.4.2 Messages

Message Code	Message English Value
000	Success.
001	Missing parameter.
002	Invalid parameter format.
003	Payment option is not available for this merchant's account.
004	Invalid command.
005	Invalid amount.

006	Technical problem.
007	Duplicate order number.
008	Signature mismatch.
009	Invalid merchant identifier.
010	Invalid access code.
011	Order not saved.
012	Card expired.
013	Invalid currency.
014	Inactive payment option.
015	Inactive merchant account.
016	Invalid card number.
017	Operation not allowed by the acquirer.
018	Operation not allowed by processor.
019	Inactive acquirer.
020	Processor is inactive.
021	Payment option deactivated by acquirer.
023	Currency not accepted by acquirer.
024	Currency not accepted by processor.
025	Processor integration settings are missing.
026	Acquirer integration settings are missing.
027	Invalid extra parameters.
029	Insufficient funds.
030	Authentication failed.
031	Invalid issuer.
032	Invalid parameter length.
033	Parameter value not allowed.
034	Operation not allowed.
035	Order created successfully.
036	Order not found.
037	Missing return URL.
039	No active payment option found.
040	Invalid transaction source.
042	Operation amount exceeds the authorized amount.
043	Inactive Operation.
044	Token name does not exist.

046	Channel is not configured for the selected payment option.
047	Order already processed.
048	Operation amount exceeds captured amount.
049	Operation not valid for this payment option.
050	Merchant per transaction limit exceeded.
051	Technical error.
052	Consumer is not in OLP database.
053	Merchant is not found in OLP Engine DB.
054	Transaction cannot be processed at this moment.
055	OLP ID Alias is not valid. Please contact your bank.
056	OLP ID Alias does not exist. Please enter a valid OLP ID Alias.
057	Transaction amount exceeds the daily transaction limit.
058	Transaction amount exceeds the per transaction limit.
059	Merchant Name and SADAD Merchant ID do not match.
060	The entered OLP password is incorrect. Please provide a valid password.
062	Token has been created.
063	Token has been updated.
064	3-D Secure check requested.
065	Transaction waiting for customer's action.
066	Merchant reference already exists.
067	Dynamic Descriptor not configured for selected payment option.
068	SDK service is inactive.
069	Mapping not found for the given error code.
070	device_id mismatch.
071	Failed to initiate connection.
072	Transaction has been cancelled by the Consumer.
073	Invalid request format.
074	Transaction failed.
075	Transaction failed.
076	Transaction not found in OLP.
077	Error transaction code not found.
078	Failed to check fraud screen.
079	Transaction challenged by fraud rules.
080	Invalid payment option.
082	Fraud service inactive.

083	Unexpected user behavior.
084	Transaction amount is either bigger than maximum or less than minimum amount accepted for the selected plan.
086	Installment plan is not configured for Merchant account.
087	Card BIN does not match accepted issuer bank.
088	Token name was not created for this transaction.
090	Transaction in review.
092	Invalid issuer code.
093	Service inactive.
094	Invalid Plan Code.
095	Inactive Issuer.
096	Inactive Plan.
097	Operation not allowed for service.
098	Invalid or expired call_id.
099	Failed to execute service.
100	Invalid bill expiry date.
103	Duplicate subscription ID.
110	Contradicting parameters, please refer to the integration guide.
111	Service not applicable for payment option.
112	Service not applicable for payment operation.
113	Service not applicable for e-commerce indicator.
114	Token already exist.
115	Expired invoice payment link.
116	Inactive notification type.
117	Invoice payment link already processed.
118	Order bounced.
119	Request dropped.
120	Payment link terms and conditions not found.
121	Card number is not verified.
122	Invalid date interval.
123	You have exceeded the maximum number of attempts.
124	Account successfully created.
125	Invoice already paid.
126	Duplicate invoice ID.
127	Merchant reference is not generated yet.
128	The generated report is still pending, you can’t download it now.

129	“Downloaded report” queue is full. Wait till its empty again.
134	Your search results have exceeded the maximum number of records.
662	Operation not allowed. The specified order is not confirmed yet.
666	Transaction declined.
773	Transaction closed.
777	The transaction has been processed, but failed to receive confirmation.
778	Session timed-out.
779	Transformation error.
780	Transaction number transformation error.
781	Message or response code transformation error.
783	Installments service inactive.
784	Transaction still processing you can’t make another transaction.
785	Transaction blocked by fraud check.
787	Failed to authenticate the user.

19.5 Security Settings

Security Settings are configurations to the Merchant account. The Security Settings differ based on the Merchant Account. The validation takes place based on the settings pertaining to each Merchant Account.

19.5.1 Security Settings Configuration

To configure your security settings, do the following:

1. Select "Security Settings" under the **Integration Settings** tab. The following page appears:

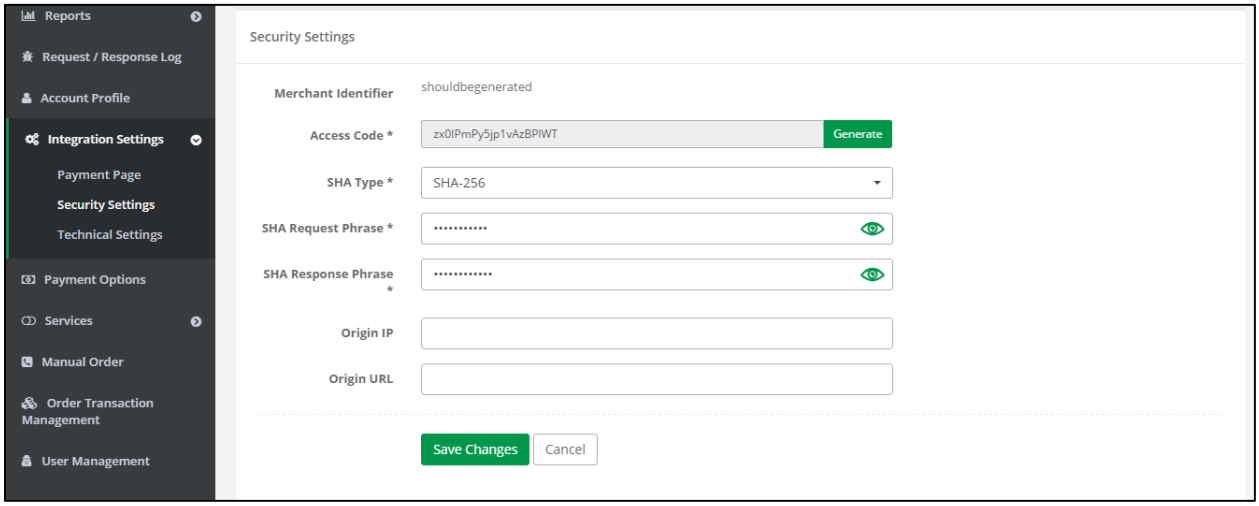

Figure 10: Integration Setting – Security Settings

2. Click "Generate" to generate your **Access Code**.
3. Select the **SHA Type** from the available drop-down list.
4. Enter the **SHA Request Phrase** and the **SHA Response Phrase**.
5. Enter the **Origin IP** or the **Origin URL**.
6. Click "Save Changes".

20. Appendix 1 – Test Cards Details

The below details are for Credit Cards that can be used for testing purposes:

Credit Cards:

Card Type	Card Number	Expiry Date	CVV/ CVC
Visa	4005550000000001	05/21	123
MasterCard	5313581000123430		
AMEX	345678901234564	05/21	1234

3-D Secure Credit Cards:

Card Type	Card Number	Expiry Date	CVV/ CVC
Visa	4557012345678902	05/21	123
MasterCard	5313581000123430		
AMEX	345678901234564	05/21	1234

Local Payment Methods:

Payment Option	Card Number	Expiry Date	CVV/ CVC
Knet	0000000001	05/17	1234

Payment Option	Card Number	Expiry Date	OTP	PIN
Naps	4215375500883243	06/17	1234	1234

Payment Option	Payment ID	Password	OTP
Sadad	sadadOlpTest	1234	112358

Payment Option	Number	Card Type
E-dirham	4724439901004942	Gold Card

Digital Wallets:

Payment Option	Card Number	Expiry Date	CVV/ CVC
MasterPass	4000000000000002	05/21	123
Visa Checkout	4000000000000002		

21. Appendix 2 – FORT XML Response Builder

Through this section you can discover one of the FORT services that enables you to receive the FORT response in XML format.

21.1 Structure

```
<response>
  <FORT_PARAMETER_NAME_1>VALUE</FORT_PARAMETER_NAME_1>
  <FORT_PARAMETER_NAME_2_list>
        <FORT_PARAMETER_NAME_2>
            <FORT_PARAMETER_NAME_3>VALUE</FORT_PARAMETER_NAME_3>
            <FORT_PARAMETER_NAME_4>VALUE</FORT_PARAMETER_NAME_4>
            <FORT_PARAMETER_NAME_5>VALUE</FORT_PARAMETER_NAME_5>
        </FORT_PARAMETER_NAME_2>
        <FORT_PARAMETER_NAME_2>
            <FORT_PARAMETER_NAME_3>VALUE</FORT_PARAMETER_NAME_3>
            <FORT_PARAMETER_NAME_4>VALUE</FORT_PARAMETER_NAME_4>
            <FORT_PARAMETER_NAME_5>VALUE</FORT_PARAMETER_NAME_5>
      </FORT_PARAMETER_NAME_2>
   </FORT_PARAMETER_NAME_2_list>
   <FORT_PARAMETER_NAME_3>VALUE</FORT_PARAMETER_NAME_3>
</response>
```

The XML response builder results specifications are:

1. The root node name is ‘response’.
2. The FORT_PARAMETER of type “List” has a special tag name format; where the parent node tag name format is:

   <FORT_PARAMETER + “_list”>
3. The list child nodes tag name’s is the name of the parameter name itself.

21.2 Sample Code

```
<response>
  <response_code>54000</response_code>
  <from_date>2017-01-19T12:20:00+02:00</from_date>
  <data_list>
    <data>
      <card_number>455701******8902</card_number>
      <expiry_date>2105</expiry_date>
      <token_name>466E93413AB648DEE053320A10AC5986</token_name>
      <card_brand>VISA</card_brand>
      <card_bin>455701</card_bin>
      <token_status>ACTIVE</token_status>
      <creation_date>2017-01-20T08:25:37+13:00</creation_date>
    </data>
    <data>
      <card_number>400555******0001</card_number>
      <expiry_date>1705</expiry_date>
      <token_name>tkn001</token_name>
      <card_brand>VISA</card_brand>
      <card_bin>455701</card_bin>
      <token_status>ACTIVE</token_status>
      <creation_date>2016-05-13T14:34:09+13:00</creation_date>
    </data>
  </data_list>
  <signature>4b6b1f0219169b0dc77f7ceac83b930cf71995ab7a4fcc435a70e2ce60c4ef04</signature>
  <merchant_identifier>uZOJfKqb</merchant_identifier>
  <access_code>AwvucffCjzibl0eZYTB3</access_code>
  <language>en</language>
  <response_format>XML</response_format>
  <response_message>Success</response_message>
  <to_date>2017-01-19T12:30:00+02:00</to_date>
  <query_command>GET_TOKENS</query_command>
  <data_count>1</data_count>
  <status>54</status>
</response>
```