

PAYFORT

Merchant Integration Guide

Document Version: 10.0

July, 2019



Copyright Statement

All rights reserved. No part of this document may be reproduced in any form or by any means or used to make any derivative such as translation, transformation, or adaptation without the prior written permission from PayFort Corporation.

Trademark

2014-2019 PayFort ©, all rights reserved. Contents are subject to change without prior notice.

Contact Us

integration@PayFort.com

www.PayFort.com

Contents

1. FORT in a Glimpse	11
2. About this Document.....	12
2.1 Intended Audience	12
3. Request/ Response Value Type.....	13
4. Before Starting the Integration with FORT.....	14
5. Redirection.....	15
5.1 Authorization/ Purchase URLs	15
5.2 Parameters Submission Type	15
5.3 Authorization/ Purchase – Request.....	15
5.4 Authorization/ Purchase – Response	20
5.5 How to add the Tokenization service on the Redirection Channel?	23
5.6 FORT Transaction Feedback.....	24
5.6.1 Overview.....	24
5.6.2 Registering Transaction Feedback URLs.....	24
5.6.3 Transaction Feedback Implementation	24
6. Maintenance Operations	26
6.1 Capture Operation	26
6.1.1 Capture Operation URLs	26
6.1.2 Parameters Submission Type	26
6.1.3 Capture Operation – Request	26
6.1.4 Capture Operation – Response	28
6.2 Void-Authorization Operation	30
6.2.1 Void-Authorized Operation URLs	30
6.2.2 Parameters Submission Type	30
6.2.3 Void-Authorization Operation – Request.....	30
6.2.4 Void-Authorization Operation – Response	31
6.3 Refund Operation	32
6.3.1 Refund Operation URLs.....	32
6.3.2 Parameters Submission Type	32
6.3.3 Refund Operation – Request	33
6.3.4 Refund Operation – Response.....	34
7. Merchant Page	36
7.1 Features	36

7.2	How It Works - Overview.....	36
7.3	Integration Flow	36
7.4	Merchant Page URLs.....	37
7.5	Parameters Submission Type	37
7.6	Merchant Page – Request	37
7.7	Merchant Page – Response.....	39
7.8	Merchant Page Operations	40
7.8.1	Merchant Page Operations URLs	40
7.8.2	Parameters Submission Type	40
7.8.3	Operation – Request.....	40
7.8.4	Operation – Response	45
7.9	How to add the Tokenization service on the Merchant Page channel?.....	48
7.10	FORT Transaction Feedback.....	48
7.10.1	Overview.....	48
7.10.2	Registering Transaction Feedback URLs.....	48
7.10.3	Transaction Feedback implementation.....	48
7.11	Merchant Page Customization	49
8.	Merchant Page 2.0.....	53
8.1	Features	53
8.2	How It Works – Overview.....	53
8.3	Integration Flow	53
8.4	Merchant Page 2.0 URLs.....	54
8.5	Parameters Submission Type	54
8.6	Merchant Page 2.0 – Request	54
8.7	Merchant Page 2.0 – Response.....	56
8.8	Merchant Page 2.0 Operations	58
8.8.1	Merchant Page 2.0 URLs.....	58
8.8.2	Parameters Submission Type	58
8.8.3	Operation – Request.....	58
8.8.4	Operation – Response	62
8.9	How to add the Tokenization service on the Merchant Page 2.0 channel?.....	65
8.10	FORT Transaction Feedback.....	65
8.10.1	Overview.....	65
8.10.2	Registering Transaction Feedback URLs.....	65

8.10.3	Transaction Feedback Implementation	66
9.	Mobile SDK.....	67
9.1	How to add the Tokenization service on the Mobile SDK Channel?	67
10.	Apple Pay Service	68
10.1	Apple Pay Service.....	68
10.1.1	Get started.....	68
10.1.2	Apple Pay URLs	68
10.1.3	Parameters Submission Type	68
10.1.4	Apple Pay Authorization/ Purchase – Request.....	68
10.1.5	Apple Pay Authorization/ Purchase – Response	75
10.2	Apple Pay SDK Service	77
10.2.1	Requirements	77
10.2.2	Get Started	78
10.2.3	Apple Pay SDK Operations.....	81
10.3	FORT Transaction Feedback.....	86
10.3.1	Overview.....	86
10.3.2	Registering Transaction Feedback URLs.....	86
10.3.3	Transaction Feedback Implementation	86
11.	Recurring Transaction	88
11.1	How It Works – Overview.....	88
11.2	Recurring URLs	88
11.3	Parameters Submission Type	88
11.4	Recurring – Request.....	89
11.5	Recurring – Response	92
11.6	FORT Transaction Feedback.....	94
11.6.1	Overview.....	94
11.6.2	Registering Transaction Feedback URLs.....	94
11.6.3	Transaction Feedback Implementation	94
12.	Installments Service	96
12.1	Installments Redirection.....	96
12.1.1	Redirection Installments Service – Request.....	96
12.1.2	Redirection Installments Service – Response	96
12.2	Installments Merchant Page (iframe).....	97
12.2.1	Merchant Page Installments Service – Request.....	97

12.2.2	Merchant Page Installments Service – Response	97
12.2.3	Purchase Installments Service – Request.....	98
12.2.4	Purchase Installments Service – Response	99
12.3	Installments Hosted Checkout	99
12.3.1	Get Installments Plans API	99
12.3.2	Merchant Page 2.0 tokenization.....	109
12.3.3	Merchant Page 2.0 Operations	113
12.4	Installments Hosted for Trusted Channel	120
12.4.1	Trusted Hosted Installments – Request	120
12.4.2	Trusted Hosted Installments – Response.....	120
12.5	FORT Transaction Feedback.....	121
12.5.1	Overview.....	121
12.5.2	Registering Transaction Feedback URLs.....	121
12.5.3	Transaction Feedback Implementation	121
12.6	Installments Merchant Page Customization	122
13.	Fraud Service	124
13.1	PayFort Fraud Service	124
13.1.1	PayFort Fraud Service – Request/ Response	124
13.2	ACI ReD Fraud Service	124
13.2.1	ACI ReD Fraud Service – Request	125
13.2.2	ACI ReD Cart Fraud Service – Request.....	143
13.2.3	ACI ReD Fraud – Response	151
13.2.4	cart_details Example Value.....	151
13.2.5	Device Fingerprint Script.....	152
14.	Invoicing Service	153
14.1	Invoicing Service URLs.....	153
14.2	Parameters Submission Type	153
14.3	Invoicing Service – Request.....	153
14.4	Invoicing Service – Response.....	156
14.5	FORT Transaction Feedback.....	161
14.5.1	Overview.....	161
14.5.2	Registering Transaction Feedback URLs.....	161
14.5.3	Transaction Feedback Implementation	162
15.	MOTO Channel	163

15.1	MOTO Channel URLs.....	163
15.2	Parameters Submission Type	163
15.3	MOTO Channel – Request.....	163
15.4	MOTO Channel – Response.....	167
15.5	FORT Transaction Feedback.....	169
15.5.1	Overview.....	169
15.5.2	Registering Transaction Feedback URLs.....	169
15.5.3	Transaction Feedback Implementation	169
16.	Trusted Channel.....	171
16.1	Trusted Channel URLs	171
16.2	Parameters Submission Type	171
16.3	Trusted Channel – Request	171
16.4	Trusted Channel – Response	176
16.5	How to add the Tokenization service on the Merchant Page 2.0 channel?.....	179
16.6	FORT Transaction Feedback.....	179
16.6.1	Overview.....	179
16.6.2	Registering Transaction Feedback URLs.....	179
16.6.3	Transaction Feedback Implementation	179
17.	Bill Presentment	181
17.1	Bill Presentment URLs.....	181
17.2	Parameters Submission Type	181
17.3	Bill Presentment – Request.....	181
17.4	Bill Presentment – Response.....	183
18.	Digital Wallets.....	185
18.1	MasterPass Service	185
18.1.1	MasterPass Redirection.....	185
18.1.2	MasterPass Hosted.....	192
18.2	Visa Checkout Service	199
18.2.1	Merchant Hosted Visa Checkout Button.....	199
18.2.2	PayFort Hosted Visa Checkout Button	203
18.3	FORT Transaction Feedback.....	204
18.3.1	Overview.....	204
18.3.2	Registering Transaction Feedback URLs.....	205
18.3.3	Transaction Feedback Implementation	205

19.	Reporting API	206
19.1	Report Builder URLs	206
19.2	Parameters Submission Type	206
19.3	How it works	206
19.4	Generate Report – Request	206
19.4.1	Columns Parameter	207
19.4.2	Filters Parameter	210
19.5	Generate Report - Response	216
19.6	Download Report - Request	218
19.7	Download Report – Response	220
19.8	Reporting Pagination API	223
19.8.1	Report Pagination API URLs	223
19.8.2	Parameters Submission Type	223
19.8.3	How it works	223
19.8.4	Get Report – Request	224
19.8.5	Get Report - Response	233
20.	3-D Secure Services	239
20.1	Check 3-D Secure & Flex 3-D Secure Services	239
20.1.1	Check 3-D Secure Service	239
20.1.2	Flex 3-D Secure Service	240
20.2	External MPI & Expose 3-D Secure Services	241
20.2.1	External MPI 3-D Secure Service	241
20.2.2	Expose 3-D Secure Service	249
20.3	FORT Transaction Feedback	259
20.3.1	Overview	259
20.3.2	Registering Transaction Feedback URLs	259
20.3.3	Transaction Feedback Implementation	259
21.	Verify Service Command	261
21.1	Before Starting	261
21.2	Verify Service Command	261
21.2.1	Verify Service Command on Trusted URLs	261
21.2.2	Parameters Submission Type	261
21.2.3	Verify Service Command on Trusted – Request	261
21.2.4	Verify Service Command on Trusted – Response	264

21.3	Check Status for Verify Service Command	265
21.3.1	Check Status for Verify Service Command URLs	265
21.3.2	Parameters Submission Type	266
21.3.3	Check Status for Verify Service Command – Request	266
21.3.4	Check Status for Verify Service Command – Response	267
21.4	FORT Transaction Feedback	268
21.4.1	Overview	268
21.4.2	Registering Transaction Feedback URLs	269
21.4.3	Transaction Feedback Implementation	269
22.	Other PayFort Services	270
22.1	FORT Tokenization Service	270
22.1.1	Create Token in Transaction Flow	270
22.1.2	Create New Token Service	270
22.1.3	Update Token Service	274
22.2	3-D Secure Service	277
22.3	Flex 3-D Secure Service	277
22.3.1	How it works?	277
22.4	Currency Exchange Service	278
22.4.1	Currency Exchange URLs	278
22.4.2	Parameters Submission Type	278
22.4.3	Currency Exchange – Request	278
22.4.4	Currency Exchange – Response	280
23.	In Common	282
23.1	Query Operations	282
23.1.1	Check Status	282
23.2	Service Activation	285
23.2.1	Fraud Prevention	286
23.2.2	3-D Secure	286
23.2.3	Installments	286
23.2.4	Tokenization	287
23.2.5	Batch service	288
23.3	Signature	288
23.3.1	Message Digest	288
23.3.2	Signature Pattern	289

23.3.3	Create Signature Value.....	289
23.4	Transaction's Response Codes	292
23.4.1	Statuses.....	292
23.4.2	Messages	293
23.5	Security Settings.....	298
23.5.1	Security Settings Configuration	298
24.	Appendix 1 – Test Cards Details	299
25.	Appendix 2 – FORT XML Response Builder.....	301
25.1	Structure	301
25.2	Sample Code.....	302

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 <u>alphabetic (A-a) to (Z-z)</u> , <u>numeric values (0-9)</u> , 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. Before Starting the Integration with FORT

Step 1: Access your test account

You have to make sure that you get access to a test account, it's a full test environment allow you to simulate and process simulation transactions. You can contact support@payfort.com to get your test account.

Step 2: make sure that you are using the correct integration type

Before building the integration, you need to make sure that you are selecting and using the proper parameters in the API calls as per the required integration type.

All the mandatory parameters mentioned in every section in the API documentation.

Step 3: Create the Transaction Request

Process a valid API request depends on transaction parameters included, you need to check the documentation and read every parameter possible values in order to reduce the errors in processing the transaction.

Step 4: Process the Transaction Response

After each payment processed, PayFort returns the transaction's response on the URL configured in your account under Technical Settings channel configuration.

You can find more details in the API documentation section [Direct Transaction Feedback](#).

You need to validate the response parameters returned on this URL by calculating the [signature](#) for the response parameters using the SHA Response Phrase configured in your account under Security Settings.

Step 5: Test and Go Live

You can use our [testing cards](#) to test your integration and simulate your test cases.

PayFort requires to test your integration before going live to verify the integration and make sure it's implemented properly.

5. 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.

5.1 Authorization/ Purchase URLs

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

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

5.2 Parameters Submission Type

HTTPs Form Post Request.

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

5.3 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			zx0IPmPy5j p1vAz8Kpg 7
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.	10			10000

			*Each currency has predefined allowed decimal 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
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f021 2ed933c9a5 d5dffa31661 acf2c827a
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)	

						<ul style="list-style-type: none"> - KNET (for Purchase operations only) - MADA (for Purchase operations only and eci Ecommerce). Click here to download MADA branding document. - MEEZA (for Purchase operations and ECOMMERCE eci 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		<ul style="list-style-type: none"> - 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	45	. :		IPv4 →192.178.1.10 IPv6 →2001:0db8:3042:0002:5a55:caff:fef6:bdbf

			example on the right hand side.				
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	250	. ; ,		JohnSmith

			and sent back as received. Will not be displayed in any report.		/ — - , ' @		
merchant_ext ra5	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.	2		NO	
phone_number	Numeric	No	The customer's phone number.	19	+ - () Space		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.co m

					:		
					.		

**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.

5.4 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	<ul style="list-style-type: none"> - MASTERCARD - VISA - AMEX - SADAD (for Purchase operations only) - NAPS (for Purchase operations only) - KNET (for Purchase operations only) - MADA (for Purchase operations only and eci Ecommerce). Click here to download MADA branding document. - MEEZA (for Purchase operations and ECOMMERCE eci only) 	
sadad_olp	Alphanumeric	SADAD Online Payment ID Alias.	12		SABBP2P_UAT2
knet_ref_number	Alphanumeric	The reference number of KNET. *In case of sending KNET payment option.	100		832911577112
third_party_transaction_number	Alphanumeric	The third party transaction number. *In case of sending KNET payment option.	50		9547069411183290
eci	Alpha	E-commerce indicator.	16	<ul style="list-style-type: none"> - 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
merchant_extra5	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 masked credit card's number. *Only the MEEZA payment option takes 19 digits card number.	19		400555*****0001

		*AMEX payment option takes 15 digits card number. *Otherwise, they take 16 digits card number.			
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.

5.5 How to add the Tokenization service on the Redirection Channel?

The Tokenization service is applicable to be integrated through the Redirection Channel through the below steps:

1. The Customer enables the remember_me option displayed in the payment page.
2. Processes the first PURCHASE/ AUTHORIZATION payment successfully.
3. The Merchant will receive a token_name in the response. This token_name should be considered as a permanent token name, and it can be used in the future customer's payments by submitting the token_name in the next PURCHASE/ AUTHORIZATION payment.

If the Customer wants to update/ delete his card, you should check [Update Token](#) section.

**NOTE!**

Please refer to section [FORT Tokenization Service](#) for more details about the token name parameter.

5.6 FORT Transaction Feedback

5.6.1 Overview

The FORT transaction Feedback system provides Merchants with two types of configurable notifications:

1. Direct Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction is processed.
2. Notification Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction status is updated.

5.6.2 Registering Transaction Feedback URLs

1. Log in to your back-office account.
2. Select the active channel under Integration Settings → Technical Settings.
3. Enter your Direct Transaction Feedback URL and Notification Transaction Feedback URL.
4. Click "Save Changes" button.

5.6.3 Transaction Feedback Implementation

The Transaction Feedback URL is required to send the Merchant the response parameters after processing the transaction on the Merchant's server side.

For the Direct Transaction Feedback, it sends the immediate payments response in all cases, like if the user closed the browser before getting redirected to the Redirection URL due to a drop in the internet connection or he closed the browser during the Redirection, the Merchant will create an endpoint which accepts the notifications received from PayFort side as POST Method.

For the Notification Transaction Feedback, it's required to provide the Merchant the transaction final status update whenever received, like if the Transaction was pending due to the unavailability for any party, the final update will be pushed to the Notification Feedback URL as POST Method.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10 times with 10 seconds in between until it's properly acknowledged.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10, times with 10 seconds in between until it's properly acknowledged.



NOTE!

- You can check the Direct and Notification Feedback logs in your PayFort back-office Account to check the details related to the submission like the Transaction Feedback URL which was triggered, The response which our FORT system pushed, The response Code and Status returned from your Transaction Feedback URL.

- The specifics of the data will differ based upon the financial operation that has been processed. Please refer to the FORT integration guide for more details.
- If you want to change the submission type to JSON or XML, you can contact us on integration@payfort.com.
- If you want to change the grace period or the time interval between the retries please contact us on integration@payfort.com.

6. Maintenance Operations

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

6.1 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.

6.1.1 Capture Operation URLs

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

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

6.1.2 Parameters Submission Type

REST POST request using JSON.

6.1.3 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			zx0IPmPy5j p1vAz8Kpg 7
merchant_id ntifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_ref erence	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.	10			10000

			*Each currency has predefined allowed decimal 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	
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f021 2ed933c9a5 d5dffa31661 acf2c827a
fort_id	Numeric	No	The order's unique reference returned by our system.	20			1492954354 00084008
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.

6.1.4 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.

6.2 Void-Authorization Operation

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

6.2.1 Void-Authorized Operation URLs

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

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

6.2.2 Parameters Submission Type

REST POST request using JSON.

6.2.3 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 to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a

fort_id	Numeric	No	The order's unique reference returned by our system.	20			149295435 400084008
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.

6.2.4 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		7cad05f0212ed933c9a5d5dfa31661acf2c827a
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	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).	

**NOTE!**

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

6.3 Refund Operation

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

6.3.1 Refund Operation URLs

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

6.3.2 Parameters Submission Type

REST POST request using JSON.

6.3.3 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
maintenance_reference	Alphanumeric	No	The Refund's unique order number. * You will be able to retry on the refund request using the same maintenance reference if the refund transaction was declined.	200			customer123
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.

6.3.4 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		7cad05f0212ed93 3c9a5d5dffa31661 acf2c827a
maintenance_reference	Alphanumeric	The Refund's unique order number. * You will be able to retry on the refund request using the same maintenance reference if the refund transaction was declined.	200		customer123
fort_id	Numeric	The order's unique reference returned by our system.	20		149295435400084 008
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.

7. 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.

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 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).

7.3 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. Then the Customer enters the card's details on the Merchant page.
3. PayFort checks the card details.
4. PayFort creates a token for the Customer transaction and sends it to the Merchant.
5. The Merchant then sends a [JSON request](#) along with the token to PayFort.
6. 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.

7. PayFort completes the operation based on the 3-D Secure response and returns the response to the Merchant.
8. 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.

7.4 Merchant Page 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 – 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			zx0IPmPy5j p1vAz8Kpg 7
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	
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f021 2ed933c9a5 d5dffa31661 acf2c827a
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.co m

7.7 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 masked credit card's number. *Only the MEEZA payment option takes 19 digits card number. *AMEX payment option takes 15 digits card number. *Otherwise, they take 16 digits card number.	19		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. *If the card number for MEEZA was of length 19 then the card bin will be the first 8 digits.	8		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.

7.8 Merchant Page Operations

7.8.1 Merchant Page Operations 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_id ntifier	Alphanu meric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_ref erence	Alphanu meric	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_em ail	Alphanu meric	Yes	The customer's email.	254	— - . @ +		customer@d omain.com
customer_ip	Alphanu meric	Yes	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 →192.17 8.1.10 IPv6 →2001:0 db8:3042:000 2:5a55:caff:fe f6:bdbf
token_name	Alphanu meric	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		<ul style="list-style-type: none"> - MASTERCARD - VISA - AMEX - MADA (for Purchase operations and eci Ecommerce only). Click here to download MADA branding document. - MEEZA (for Purchase operations and ECOMMERCE eci only) 	
eci	Alpha	No	Ecommerce indicator.	16		<ul style="list-style-type: none"> - ECOMMERCE - MOTO - RECCURING 	
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. * Only AMEX accepts card security code of 4 digits.	4			123
customer_name	Alpha	No	The customer's name.	40	— \ / - . ,		John Smith

					Space		
merchant_ext ra	Alphanu meric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	999	. ; / — - , ' @		JohnSmith
merchant_ext ra1	Alphanu meric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / — - , ' @		JohnSmith
merchant_ext ra2	Alphanu meric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / — - , ' @		JohnSmith
merchant_ext ra3	Alphanu meric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / — - , ' @		JohnSmith
merchant_ext ra4	Alphanu meric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / — - , ' @		JohnSmith
merchant_ext ra5	Alphanu meric	No	Extra data sent by merchant. Will be	250	. ; / — - , ' @		JohnSmith

			received and sent back as received. 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	+ - () Space		00962797219 966
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.m erchant.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
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
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	<ul style="list-style-type: none"> - MASTERCARD - VISA - AMEX - MADA (for Purchase operations and eci Ecommerce only). Click here to download MADA branding document. - MEEZA (for Purchase operations and ECOMMERCE eci only) 	
eci	Alpha	E-commerce indicator.	16	<ul style="list-style-type: none"> - ECOMMERCE - MOTO - RECCURING 	
order_description	Alphanumeric	It holds the description of the order.	150		iPhone 6-S
authorization_code	Alphanumeric	The authorization code returned from the 3 rd 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_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	250		JohnSmith

		received. Will not be displayed in any report.			
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
merchant_extra5	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 masked credit card's number. *Only the MEEZA payment option takes 19 digits card number. *AMEX payment option takes 15 digits card number. *Otherwise, they take 16 digits card number.	19		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.

7.9 How to add the Tokenization service on the Merchant Page channel?

The Tokenization service is applicable to be integrated through the Merchant Page Channel through the below steps:

1. Processes the first PURCHASE/ AUTHORIZATION payment successfully.
2. The Merchant will receive a token_name in the response. This token_name should be considered as a permanent token name, and it can be used in the future customer's payments by submitting the token_name in the next PURCHASE/ AUTHORIZATION payment with card_security_code parameter.
3. No need to open the Merchant Page to fill all the card details again in the next checkouts.

If the Customer wants to update/ delete his card, you should check [Update Token](#) section.



NOTE!

Please refer to section [FORT Tokenization Service](#) for more details about the token name parameter.

7.10 FORT Transaction Feedback

7.10.1 Overview

The FORT transaction Feedback system provides Merchants with two types of configurable notifications:

1. Direct Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction is processed.
2. Notification Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction status is updated.

7.10.2 Registering Transaction Feedback URLs

1. Log in to your back-office account.
2. Select the active channel under Integration Settings → Technical Settings.
3. Enter your Direct Transaction Feedback URL and Notification Transaction Feedback URL.
4. Click "Save Changes" button.

7.10.3 Transaction Feedback implementation

The Transaction Feedback URL is required to send the Merchant the response parameters after processing the transaction on the Merchant's server side.

For the Direct Transaction Feedback, it sends the immediate payments response in all cases, like if the user closed the browser before getting redirected to the Redirection URL due to a drop in the internet connection or he closed the browser during the Redirection, the Merchant will create an endpoint which accepts the notifications received from PayFort side as POST Method.

For the Notification Transaction Feedback, it's required to provide the Merchant the transaction final status update whenever received, like if the Transaction was pending due to the unavailability for any party, the final update will be pushed to the Notification Feedback URL as POST Method.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10 times with 10 seconds in between until it's properly acknowledged.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10, times with 10 seconds in between until it's properly acknowledged.

**NOTE!**

- You can check the Direct and Notification Feedback logs in your PayFort back-office Account to check the details related to the submission like the Transaction Feedback URL which was triggered, The response which our FORT system pushed, The response Code and Status returned from your Transaction Feedback URL.
- The specifics of the data will differ based upon the financial operation that has been processed. Please refer to the FORT integration guide for more details.
- If you want to change the submission type to JSON or XML, you can contact us on integration@payfort.com.
- If you want to change the grace period or the time interval between the retries please contact us on integration@payfort.com.

7.11 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:

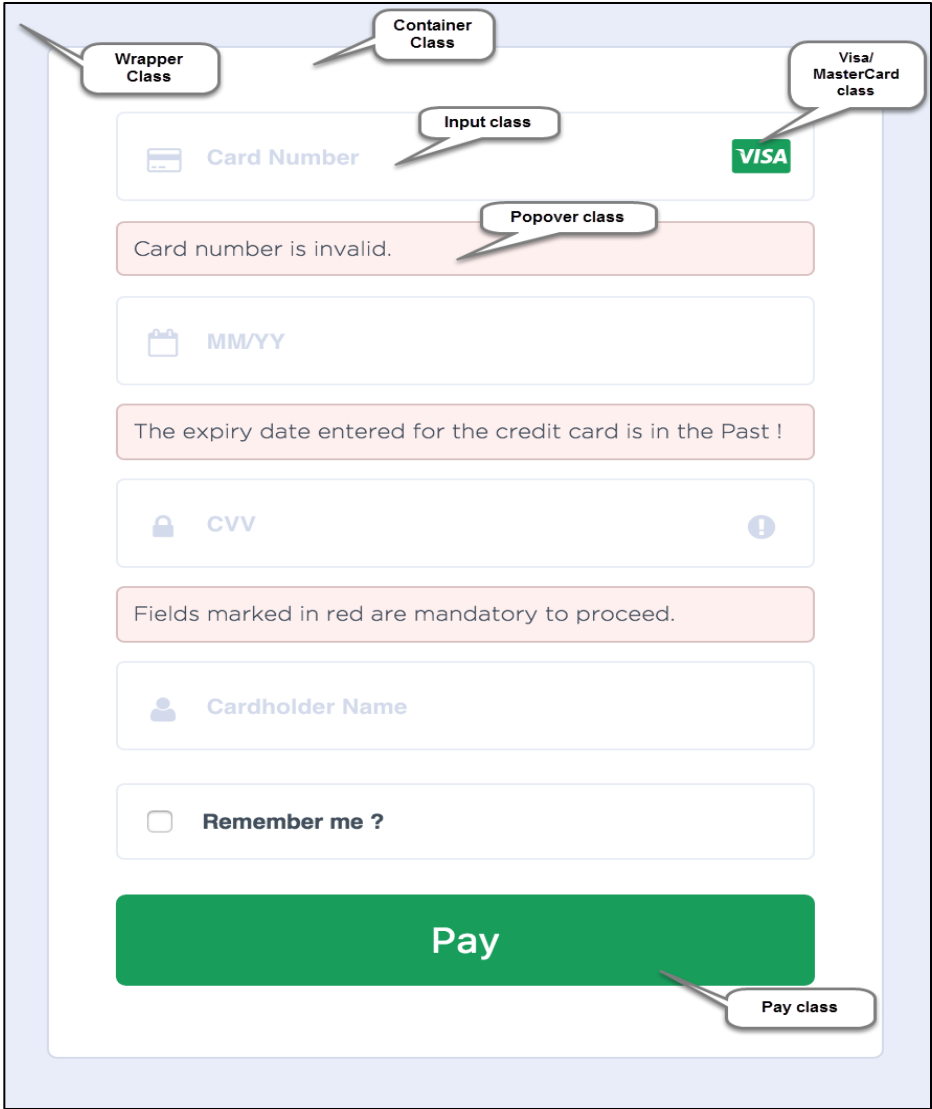


Figure 1: CSS Classes

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.

The image shows a payment form layout. At the top is a 'Card Number' field with a card icon on the left and a 'VISA' logo on the right. Below this is a row of two fields: 'MM/YY' with a calendar icon on the left, and 'CVV' with a lock icon and an exclamation mark icon on the right. A callout bubble points to the 'MM/YY' field with the text 'Half-container class'. Below these is a 'Cardholder Name' field with a person icon on the left. Then there is a 'Remember me ?' checkbox. At the bottom is a large green 'Pay' button.

Figure 2: Customized Fields – Half-container Class

8. 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.

8.1 Features

No customer redirection.

No PCI-Compliance needed.

A replica of your website appearance and payment flow.

8.2 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.

8.3 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. Then the Customer enters the card's details on the Merchant page.
3. PayFort validates the card format.
4. PayFort creates a Token for the card details and sends it back to the Merchant.
5. The Merchant stores the Token and proceeds with the transaction.
6. The Merchant sends a payment request along with the Token to PayFort.
7. 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.

8. PayFort completes the operation based on the 3-D secure response and returns the response to the

Merchant.

9. 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.

8.4 Merchant Page 2.0 URLs

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

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

8.5 Parameters Submission Type

HTTPs Form Post Request.

8.6 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			zx0lpmPy5p1vAz
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. *Only the MEEZA payment option takes 19 digits card number. *AMEX payment option takes 15 digits card number. *Otherwise, they take 16 digits card number.	19			4005550 0000000 01
card_security_code	Numeric	Yes	A security code for the card. * Only AMEX accepts card security code of 4 digits.	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			7cad05f0 212ed93 3c9a5d5 dffa3166 1acf2c82 7a
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.

8.7 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		zx0lPmPy5jp1vAz
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 masked credit card's number. *Only the MEEZA payment option takes 19 digits card number. *AMEX payment option takes 15 digits card number.	19		400555*****0001

		*Otherwise, they take 16 digits card number.			
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
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. *If the card number for MEEZA was of length 19 then the card bin will be the first 8 digits.	8		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.

8.8 Merchant Page 2.0 Operations

8.8.1 Merchant Page 2.0 URLs

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

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

8.8.2 Parameters Submission Type

REST POST request using JSON.

8.8.3 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
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:fe6:bdbf
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 - MADA (for Purchase operations and eci Ecommerce only). Click here to download MADA branding document. - MEEZA (for Purchase operations and ECOMMERCE eci only)	
eci	Alpha	No	Ecommerce indicator.	16		- ECOMMERCE - MOTO - RECCURING	
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. * Only AMEX accepts card security code of 4 digits.	4			123
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. Will not be displayed in any report.	250	.		JohnSmith
					;		
					/		
					—		
					-		
					,		
					'		
					@		
merchant_extra5	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	+		0096279 7219966
					-		
					(
)		
					Space		
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	400	\$		http://www.merchant.com
					!		
					=		

			customer when the order is processed.		? # & - - / : .		
--	--	--	---------------------------------------	--	--------------------------------------	--	--

**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.

8.8.4 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
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:fe6:bdbf
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		7cad05f0212ed933c9a5d5dfa31661acf2c827a
fort_id	Numeric	The order's unique reference returned by our system.	20		149295435400084008
payment_option	Alpha	Payment option.	10	<ul style="list-style-type: none"> - MASTERCARD - VISA - AMEX - MADA (for Purchase operations and eci Ecommerce only). Click here to download MADA branding document. - MEEZA (for Purchase operations and ECOMMERCE eci only) 	
eci	Alpha	E-commerce indicator.	16	<ul style="list-style-type: none"> - ECOMMERCE - MOTO - RECCURING 	
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_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_extra 1	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra 2	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra 3	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra 4	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra 5	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 masked credit card's number. *Only the MEEZA payment option takes 19 digits card number. *AMEX payment option takes 15 digits card number. *Otherwise, they take 16 digits card number.	19		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.

8.9 How to add the Tokenization service on the Merchant Page 2.0 channel?

The Tokenization service is applicable to be integrated through the Merchant Page 2.0 Channel through the below steps:

1. Processes the first PURCHASE/ AUTHORIZATION payment successfully.
2. The Merchant will receive a token_name in the response. This token_name should be considered as a permanent token name, and it can be used in the future customer's payments by submitting the token_name in the next PURCHASE/ AUTHORIZATION payment with card_security_code parameter.
3. No need to open the Merchant Page to fill all the card details again in the next checkouts.

If the Customer wants to update/ delete his card, you should check [Update Token](#) section.

**NOTE!**

Please refer to section [FORT Tokenization Service](#) for more details about the token name parameter.

8.10 FORT Transaction Feedback

8.10.1 Overview

The FORT transaction Feedback system provides Merchants with two types of configurable notifications:

1. Direct Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction is processed.
2. Notification Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction status is updated.

8.10.2 Registering Transaction Feedback URLs

1. Log in to your back-office account.
2. Select the active channel under Integration Settings → Technical Settings.

3. Enter your Direct Transaction Feedback URL and Notification Transaction Feedback URL.
4. Click “Save Changes” button.

8.10.3 Transaction Feedback Implementation

The Transaction Feedback URL is required to send the Merchant the response parameters after processing the transaction on the Merchant’s server side.

For the Direct Transaction Feedback, it sends the immediate payments response in all cases, like if the user closed the browser before getting redirected to the Redirection URL due to a drop in the internet connection or he closed the browser during the Redirection, the Merchant will create an endpoint which accepts the notifications received from PayFort side as POST Method.

For the Notification Transaction Feedback, it’s required to provide the Merchant the transaction final status update whenever received, like if the Transaction was pending due to the unavailability for any party, the final update will be pushed to the Notification Feedback URL as POST Method.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10 times with 10 seconds in between until it’s properly acknowledged.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10, times with 10 seconds in between until it’s properly acknowledged.



NOTE!

- You can check the Direct and Notification Feedback logs in your PayFort back-office Account to check the details related to the submission like the Transaction Feedback URL which was triggered, The response which our FORT system pushed, The response Code and Status returned from your Transaction Feedback URL.
- The specifics of the data will differ based upon the financial operation that has been processed. Please refer to the FORT integration guide for more details.
- If you want to change the submission type to JSON or XML, you can contact us on integration@payfort.com.
- If you want to change the grace period or the time interval between the retries please contact us on integration@payfort.com.

9. 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**.

9.1 How to add the Tokenization service on the Mobile SDK Channel?

The Tokenization service is applicable to be integrated through the Mobile SDK Channel through the below steps:

1. The Customer enables the remember_me option displayed in the payment page.
2. Processes the first PURCHASE/ AUTHORIZATION payment successfully.
3. The Merchant will receive a token_name in the response. This token_name should be considered as a permanent token name, and it can be used in the future customer's payments by submitting the token_name in the next PURCHASE/ AUTHORIZATION payment.

If the Customer wants to update/ delete his card, you should check [Update Token](#) section.

**NOTE!**

Please refer to section [FORT Tokenization Service](#) for more details about the token name parameter.

10. Apple Pay Service

We offer you a digital wallet that allows Merchant's customers to make payments using different Apple devices.

10.1 Apple Pay Service

Apple Pay is a digital wallet that allows Merchant's customers to make payments using different Apple devices. The customer can complete the payment using his fingerprint.

10.1.1 Get started

Before you start Apple Pay integration please refer to the following URL <https://developer.apple.com/apple-pay/get-started/> to complete the following steps:

1. Setup you Apple Pay account.
2. Complete the integration with Apple Pay; Apple Pay JS, and/or Apple Pay SDK.
3. After completing the integration with Apple you should upload the Payment Processing certificate that received from Apple in your PayFort account under "Apple Pay Settings" tab.

After completing the integration with Apple Pay proceed with PayFort integration to process Authorization/ Purchase request.

10.1.2 Apple Pay URLs

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

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

10.1.3 Parameters Submission Type

REST POST request using JSON.

10.1.4 Apple Pay Authorization/ Purchase – Request

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

Apple Pay 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	–	APPLE_PAY	
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
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
apple_data	Alphanumeric	Yes	This string represent the encrypted payment data.	500	/ + =		<i>Check Example 1 below the table.</i>
apple_signature	Alphanumeric	Yes	Signature of the payment and header data. The signature includes the signing certificate, its intermediate CA certificate, and information about	3000	/ + =		MIAGCSqGS1b3DQEHAqCAMIACAQExDzANBg1ghkgBZQMEAgEFADCABgkqhkiG9w0BwEAAK

			the signing algorithm.				CAMIID5j CC...
apple_header	List	Yes	Additional version-dependent information used to decrypt and verify the payment.	-			<i>Check Example 2 below the table.</i>
apple_transactionId	Alphanumeric	Yes	Transaction identifier, generated on the device.	100			93eec76 cbdaed ca44648 e3d5c31 4766906 e4e78ce 33cd3b8 396f105a 1c0daed
apple_ephemeralPublicKey	Alphanumeric	Yes	Ephemeral public key bytes.	200			MFkwEw YHKoZlZj 0CAQYI KoZlZj0D AQcDQg AEM9Jq F04vDIGI ...
apple_publicKeyHash	Alphanumeric	Yes	Hash of the X.509 encoded public key bytes of the merchant's certificate.	100	/ + =		bVTUiyT v0uCJgQ z8SNYH BHOIHM D6sR1q DuCqTa ETzkw=
apple_applicationData	Alphanumeric	No	Hash of the applicationData property of the original PKPaymentRequest object.	200			5173d4e 05f2e07d c4e7ea9 669bda1 85712ffff e1d6cfce 2d4e854 d7661e7 0d67...
apple_paymentMethod	List	Yes	The details of the credit card.	-			<i>Check Example 3 below the table.</i>
apple_displayName	Alphanumeric	Yes	The credit card name.	50	Space		Visa 0492
apple_network	Alpha	Yes	The credit card payment option.	20		- Visa - MasterCard - AmEx	

apple_type	Alpha	Yes	The credit card type.	20			credit
apple_version	Alphanumeric	No	Version information about the payment token.	10	—	EC_v1	
eci	Alpha	No	Ecommerce indicator.	16		ECOMMERCE	
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 →19 2.178.1.1 0 IPv6 →20 01:0db8: 3042:000 2:5a55:c aff:fe6:b dbf
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 h
merchant_extra1	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not	999	. ; / —		JohnSmith h

			be displayed in any report.		- , ' @		
merchant_extra2	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_extra3	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_extra4	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_extra5	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; , / — - , ' @		JohnSmith
phone_number	Numeric	No	The customer's phone number.	19	+ - () Space		0096279 7219966



Example 1!

The following is an example for “apple_data”

[illegible]

Example 2!

```
"apple_header": {
  "apple_transactionId":
    "93eec76cbedaedca44648e3d5c314766906e4e78ce33cd3b8396f105a1c0daed",
  "apple_ephemeralPublicKey":
    "MFkwEwYHKoZIzj0CAQYIKoZIzj0DAQcDQgAEM9JqF04vDIGIHEzWsaDm4bG
    BITJdCn3+DH8ptlAmOSwVddD7/FN93A2o+I7i2U6Lmj8WWhKJcz6ZB+2MabcF4g
    ==",
  "apple_publicKeyHash":
    "bVTUiYTv0uCJgQz8SNYHBOIHMD6sR1qDuCqTaETzkw="
}
```

The following is an example for “apple_paymentMethod” parameter:

```
"apple_paymentMethod": {
  "apple_displayName": "Visa 0492",
  "apple_network": "Visa",
  "apple_type": "debit"
}
```

**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.

10.1.5 Apple Pay Authorization/ Purchase – Response

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

Apple Pay Service Response Parameters					
Parameter Name	Type	Description	Length	Possible/ Expected Values	Example
digital_wallet	Alpha	The buyer's digital wallet.	100	APPLE_PAY	
command	Alpha	Command.	20	- AUTHORIZATION - PURCHASE	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp 1vAz
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@d omain.com
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212 ed933c9a5d5 dffa31661acf 2c827a
fort_id	Numeric	The order's unique reference returned by our system.	20		14929543540 0084008
payment_option	Alpha	Payment option.	10	- MASTERCARD	

				- VISA - MADA (for Purchase operations and eci Ecommerce only).	
eci	Alpha	E-commerce indicator.	16	ECOMMERCE	
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		P100000000 0000372136
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		14000
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 →192.17 8.1.10 IPv6 →2001:0 db8:3042:000 2:5a55:caff:fe f6: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.	999		JohnSmith
merchant_extra2	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	999		JohnSmith
merchant_extra3	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	999		JohnSmith

merchant_extra4	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	999		JohnSmith
merchant_extra5	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 masked 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
phone_number	Numeric	The customer's phone number.	19		00962797219 966

**NOTE!**

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

10.2 Apple Pay SDK Service

Apple Pay is a digital wallet that allows Merchant's customers to make payments using different Apple devices through FORT iOS SDK. The Customer authenticate his identity with Touch ID fingerprint verification to complete the payment.

10.2.1 Requirements

Before you start Apple Pay SDK integration; you need to check the following points:

- You will need to have one of these iOS devices (iPhone 6, iPhone 6s, iPhone 6 Plus, iPhone 6s Plus, iPhone 7, iPhone 7 Plus, iPhone SE, iPad Air 2, iPad mini 3, iPad mini 4, and iPad Pro models) running iOS 8.1 or later.
- You will need a Mac with Xcode 6.1 or newer installed. You can install or upgrade Xcode in the [Mac App Store](#).
- You will also need an apple developer account and a membership in the iOS Developer Program. You can create a one from [here](#).
- You will need to download the FORT iOS Mobile SDK, click [here](#).

10.2.2 Get Started

Before you start Apple Pay integration with PayFort please refer to the following URL <https://developer.apple.com/apple-pay/get-started/> to complete the following steps:

1. Setup your Apple Pay account.
2. Complete the integration with Apple Pay SDK.

After completing the integration with Apple Pay, check that you have got the following:

- Apple merchantID.
- Merchant certificate.
- Payment processing certificate.

Then copy the following sample code to complete integration with FORT Mobile SDK:

➤ Objective C:

```
#pragma mark - PKPaymentAuthorizationViewControllerDelegate

(void)paymentAuthorizationViewController:
(PKPaymentAuthorizationViewController *)controller
didAuthorizePayment:(PKPayment *)payment
completion:(void (^)(PKPaymentAuthorizationStatus status))completion
{

BOOL asyncSuccessful = payment.token.paymentData.length != 0;

if(asyncSuccessful) {

PayFortController *payFort = [[PayFortController
alloc]initWithEnviroment:(KPayFortEnviroment)_enviromentSegment.selectedSegmentIndex];

NSMutableDictionary *request = [[NSMutableDictionary alloc] init];

[request setValue:@"10000" forKey:@"amount"];

[request setValue:@"AUTHORIZATION" forKey:@"command"];
```

```

[request setValue:@"USD" forKey:@"currency"];
[request setValue:@"email@domain.com" forKey:@"customer_email"];
[request setValue:@"en" forKey:@"language"];
[request setValue:@"merchant" forKey:@"merchant_reference"];
[request setValue:@"" forKey:@"sdk_token"];
[request setValue:@"APPLE_PAY" forKey:@"digital_wallet"];

[payFort callPayFortForApplePayWithRequest:request
applePayPayment:payment
currentViewController:self
Success:^(NSDictionary *requestDic, NSDictionary *responseDic) {
completion(PKPaymentAuthorizationStatusSuccess);

}

Fail:^(NSDictionary *requestDic, NSDictionary *responseDic, NSString *message) {
completion(PKPaymentAuthorizationStatusFailure);

}];

} else {
completion(PKPaymentAuthorizationStatusFailure);
}
}

```

➤ Swift:

```

func paymentAuthorizationController(_ controller: PKPaymentAuthorizationController,
didAuthorizePayment payment: PKPayment, completion: @escaping (PKPaymentAuthorizationStatus) -
> Void) {

```

```
//Perform some very basic validation on the provided contact information

let asyncSuccessful = payment.token.paymentData.count != 0

if asyncSuccessful {

let payFort = PayFortController.init(enviroment: KPayFortEnviromentSandBox)
let request = NSMutableDictionary.init()
request.setValue("100100000", forKey: "amount")
request.setValue("AUTHORIZATION", forKey: "command")
request.setValue("USD", forKey: "currency")
request.setValue("email@domain.com", forKey: "customer_email")
request.setValue("en", forKey: "language")
request.setValue("merchant", forKey: "merchant_reference")
request.setValue("gr66zzwW9" , forKey: "sdk_token")
request.setValue("APPLE_PAY" , forKey: "digital_wallet")

payFort?.callPayFortForApplePay(withRequest: request,
applePay: payment,
currentViewController: self
, success: { (requestDic, responseDic) in
completion(.success)
}, faild:{ (requestDic, responseDic, message) in
completion(.failure)
})
}else {
completion(.failure)
```



```

}
}

```

10.2.3 Apple Pay SDK Operations

The FORT Mobile SDK allows the Merchant's application to process Authorization and Purchase operations.

10.2.3.1 Apple Pay SDK Authorization/ Purchase - Request Parameters

Request Parameters							
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/ Expected Values	Example
command	Alpha	Yes	Command.	20		- AUTHORIZATION - PURCHASE	
digital_wallet	Alpha	Yes	The buyer's digital wallet.	100		APPLE_PAY	
merchant_reference	Alphanumeric	Yes	The Merchant's unique order number.	40	- _ .		XYZ9239-yu898
amount	Numeric	Yes	The transaction's value. *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
sdk_token	Alphanumeric	Yes	An SDK token to enable using the FORT Mobile SDK.	100			Dwp78q3
payment_option	Alpha	No	Payment option.	10		- MASTERCARD - VISA	

						- MADA (for Purchase operations and eci Ecommerce only).	
eci	Alpha	No	E-commerce indicator.	16		ECOMMERCE	
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.	45	.		192.178.1.10
customer_name	Alpha	No	The customer's name.	40	— \ / - : ;		John Smith
phone_number	Alphanumeric	No	The customer's phone number.	19	+ - () Space		00962797219966
token_name	Alphanumeric	No	The Token name.	100	. @ - —		Op9Vmp
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	Alphanu meric	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	Alphanu meric	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	Alphanu meric	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	Alphanu meric	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	Alphanu meric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / — - , ' @		JohnSmith
merchant_ extra5	Alphanu meric	No	Extra data sent by merchant. Will be received and sent back as received. Will not	250	. ; / —		JohnSmith

			be displayed in any report.		- , ' @		
--	--	--	-----------------------------	--	----------------------	--	--

**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.

10.2.3.2 Apple Pay SDK Authorization/ Purchase - Response Parameters

Response Parameters					
Parameter Name	Type	Description	Length	Possible/ Expected Values	Example
command	Alpha	Command.	20	- AUTHORIZATION - PURCHASE	
digital_wallet	Alpha	The buyer's digital wallet.	100	APPLE_PAY	
merchant_reference	Alphanumeric	The Merchant's unique order number.	40		XYZ2939-yu898
amount	Numeric	The transaction's value. *The amount parameter is returned by our system according to the predefined allowed decimal points per currency.	10		10000
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		AED
customer_email	Alphanumeric	The customer's email.	254		customer@domain.com
fort_id	Numeric	The order's unique reference returned by our system.	20		1443796866848
sdk_token	Alphanumeric	An SDK token to enable using the FORT Mobile SDK.	100		Dwp78q3
payment_option	Alpha	Payment option.	10	- MASTERCARD	

				- VISA - MADA (for Purchase operations and eci Ecommerce only).	
eci	Alpha	E-commerce indicator.	16	ECOMMERCE	
authorization_code	Alphanumeric	The authorization code returned from the 3rd party.	100		P100000000 0000372136
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		Insufficient Funds
response_code	Numeric	Response Code carries the value of our system's response. The code is made up of five digits.	5	(Please refer to section Messages).	
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	
customer_ip	Alphanumeric	It holds the customer's IP address.	45		192.178.1.10
expiry_date	Numeric	The card's expiry date.	4		1705
card_number	Numeric	The masked credit card's number.	16		400555***** 0001
customer_name	Alpha	The customer's name.	40		John Smith
phone_number	Alphanumeric	The customer's phone number.	19		00962797219 966
token_name	Alphanumeric	The Token name.	100		Op9Vmp
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
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	Alphanu meric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra5	Alphanu meric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith

**NOTE!**

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

10.3 FORT Transaction Feedback

10.3.1 Overview

The FORT transaction Feedback system provides Merchants with two types of configurable notifications:

1. Direct Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction is processed.
2. Notification Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction status is updated.

10.3.2 Registering Transaction Feedback URLs

1. Log in to your back-office account.
2. Select the active channel under Integration Settings → Technical Settings.
3. Enter your Direct Transaction Feedback URL and Notification Transaction Feedback URL.
4. Click "Save Changes" button.

10.3.3 Transaction Feedback Implementation

The Transaction Feedback URL is required to send the Merchant the response parameters after processing the transaction on the Merchant's server side.

For the Direct Transaction Feedback, it sends the immediate payments response in all cases, like if the user closed the browser before getting redirected to the Redirection URL due to a drop in the internet connection or he closed the browser during the Redirection, the Merchant will create an endpoint which accepts the notifications received from PayFort side as POST Method.

For the Notification Transaction Feedback, it's required to provide the Merchant the transaction final status update whenever received, like if the Transaction was pending due to the unavailability for any party, the final update will be pushed to the Notification Feedback URL as POST Method.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received.

If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10 times with 10 seconds in between until it's properly acknowledged.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10, times with 10 seconds in between until it's properly acknowledged.

**NOTE!**

- You can check the Direct and Notification Feedback logs in your PayFort back-office Account to check the details related to the submission like the Transaction Feedback URL which was triggered, The response which our FORT system pushed, The response Code and Status returned from your Transaction Feedback URL.
- The specifics of the data will differ based upon the financial operation that has been processed. Please refer to the FORT integration guide for more details.
- If you want to change the submission type to JSON or XML, you can contact us on integration@payfort.com.
- If you want to change the grace period or the time interval between the retries please contact us on integration@payfort.com.

11. 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.

11.1 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.

11.2 Recurring 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 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			7cad05f0212 ed933c9a5d5 dffa31661acf 2c827a
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_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. Will not be displayed in any report.	250	. ; / — - , , @		JohnSmith
merchant_extra5	Alphanumeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / — - , , @		JohnSmith
phone_number	Numeric	No	The customer's phone number.	19	+ - () Space		00962797219 966
settlement_reference	Alphanumeric	No	The Merchant submits this value to the FORT. The value is then passed to the Acquiring bank	34	- — .		XYZ9239- yu898

			and displayed to the merchant in the Acquirer settlement file.				
--	--	--	--	--	--	--	--

**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.

11.5 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		7cad05f0212e d933c9a5d5df fa31661acf2c8 27a
payment_option	Alpha	Payment option.	10	- MASTERCARD - VISA - AMEX	
fort_id	Numeric	The order's unique reference returned by our system.	20		14929543540 0084008
order_description	Alphanumeric	It holds the description of the order.	150		iPhone 6-S
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_extra 1	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra 2	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra 3	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra 4	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra 5	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 masked credit card's number.	16		400555*****0 001
authorization_code	Alphanumeric	The authorization code returned from the 3rd party.	100		P1000000000 000372136
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		00962797219 966
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.

11.6 FORT Transaction Feedback

11.6.1 Overview

The FORT transaction Feedback system provides Merchants with two types of configurable notifications:

1. Direct Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction is processed.
2. Notification Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction status is updated.

11.6.2 Registering Transaction Feedback URLs

1. Log in to your back-office account.
2. Select the active channel under Integration Settings → Technical Settings.
3. Enter your Direct Transaction Feedback URL and Notification Transaction Feedback URL.
4. Click "Save Changes" button.

11.6.3 Transaction Feedback Implementation

The Transaction Feedback URL is required to send the Merchant the response parameters after processing the transaction on the Merchant's server side.

For the Direct Transaction Feedback, it sends the immediate payments response in all cases, like if the user closed the browser before getting redirected to the Redirection URL due to a drop in the internet connection

or he closed the browser during the Redirection, the Merchant will create an endpoint which accepts the notifications received from PayFort side as POST Method.

For the Notification Transaction Feedback, it's required to provide the Merchant the transaction final status update whenever received, like if the Transaction was pending due to the unavailability for any party, the final update will be pushed to the Notification Feedback URL as POST Method.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10 times with 10 seconds in between until it's properly acknowledged.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10, times with 10 seconds in between until it's properly acknowledged.

**NOTE!**

- You can check the Direct and Notification Feedback logs in your PayFort back-office Account to check the details related to the submission like the Transaction Feedback URL which was triggered, The response which our FORT system pushed, The response Code and Status returned from your Transaction Feedback URL.
- The specifics of the data will differ based upon the financial operation that has been processed. Please refer to the FORT integration guide for more details.
- If you want to change the submission type to JSON or XML, you can contact us on integration@payfort.com.
- If you want to change the grace period or the time interval between the retries please contact us on integration@payfort.com.

12. 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 appear displaying your activated services.

12.1 Installments Redirection

12.1.1 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

12.1.2 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.

12.2 Installments Merchant Page (iframe)

12.2.1 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.

12.2.2 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.

12.2.3 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

12.2.4 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.

12.3 Installments Hosted Checkout

12.3.1 Get Installments Plans API

This service allows you to know the installment plan details and issuers configured in your account for the installment service.

12.3.1.1 Get Installments Plans API URLs

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

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

12.3.1.2 Parameters Submission Type

REST POST request using JSON.

12.3.1.3 Get Installments Plans API - Request

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

Get Installments Plans API Request Parameters							
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/ Expected Values	Example
query_command	Alpha	Yes	Query operations command.	50	–	GET_INSTALLMENTS_PLANS	
access_code	Alphanumeric	Yes	Access Code.	20			zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	Yes	The ID of the Merchant.	20			CycHZxVj
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
amount	Numeric	No	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	No	The currency of the transaction's amount in ISO code 3.	3			USD
language	Alpha	No	Checkout page and messages language	2		-en -ar	
issuer_code	Alphanumeric	No	This code revert the details, plans and BINs for a specific issuer.	8			12HP34SE



NOTE!

Please note that you can't send these parameters (amount/currency) separately; you should send them together or not sending them at all.



NOTE!

If you send the amount and the currency in get plans API, you will receive AmountPerMonth parameter calculated from our side, and

no need to use the formulas returned to complete the amount calculations.

12.3.1.4 Get Installments Plans API - Response

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

Get Installments Plans API Response Parameters					
Parameter Name	Type	Description	Length	Possible/ Expected Values	Example
query_command	Alpha	Query operations command.	50	GET_INSTALLMENTS_PLANS	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
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	
issuer_code	Alphanumeric	This code revert the details, plans and BINs for a specific issuer.	8		12HP34SE
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		62000
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses)	
installment_detail	List	This parameter is a parent parameter for other parameters that contain the details of installment.	-	(Please refer to section issuer_detail)	

**NOTE!**

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

12.3.1.5 Issuer_detail Parameter

This parameter is a sub parameter of the “installment_detail” parameter, the table below shows the child parameters of the “issuer_detail”:

issuer_detail parameters					
Parameter Name	Type	Description	Length	Possible/ Expected Values	Example
issuer_code	Alphanumeric	This code revert the details, plans and BINs for a specific issuer.	8		12HP34SE
issuer_name_ar	Alphanumeric	The issuer name in Arabic.	50		Issuer2عربي
issuer_name_en	Alphanumeric	The issuer name in English.	50		Issuer2
terms_and_condition_ar	Alphanumeric	The Arabic terms and condition URL.	200		http://www.gmail.com
terms_and_condition_en	Alphanumeric	The English terms and condition URL.	200		http://www.yahoo.com
country_code	Alpha	The country's code in ISO 3-digits.	3		JOR
issuer_logo_ar	Alphanumeric	The issuer logo for the Arabic version.	350		https://payfort-fort-images-lt.s3.amazonaws.com/frontend/files/logos/issuer/logo_en_164.jpg
issuer_logo_en	Alphanumeric	The issuer logo for the English version.	350		https://payfort-fort-images-lt.s3.amazonaws.com/frontend/files/logos/issuer/logo_en_164.jpg
banking_system	Alpha	The type of institutions that provide financial services.	11	- Non Islamic - Islamic	
formula	Alphanumeric	The equation of calculating the installment value.	100		(amount +(amount *effective rate/100))/period

					Please check the note below the table for more details.
plan_detail	List	This parameter contain all the plans for this issuer.	-	(Please refer to section plan_detail)	
bins	List	List of 6 digits of the card number related to this issuer.	-	(Please refer to section bins)	
confirmation_message_ar	Alphanumeric	This parameter shows to the customer the confirmation message that the merchant configure on his back-office in Arabic.	500		
disclaimer_message_ar	Alphanumeric	This parameter shows to the customer the disclaimer message that the merchant configure on his back-office in Arabic.	500		
processing_fees_message_ar	Alphanumeric	This parameter shows to the customer the processing fee message that the merchant configure on his back-office in Arabic.	500		
confirmation_message_en	Alphanumeric	This parameter shows the customer to the confirmation message that the merchant configure on his back-office in English.	500		
disclaimer_message_en	Alphanumeric	This parameter shows to the customer the disclaimer message that the merchant configure on his back-office in English.	500		
processing_fees_message_en	Alphanumeric	This parameter shows to the customer the processing fee message that the merchant configure on his back-office in English.	500		

**NOTE!**

What does each of the formula parameters mean:

Example: $(\text{amount} + (\text{amount} * \text{effective rate} / 100)) / \text{period}$

Amount: The transaction amount.

Effective rate: The fee_amount retrieved in the response inside the [plan_detail](#).

Period: number_of_installment retrieved in the response inside the [plan_detail](#).

12.3.1.6 Plan_detail Parameter

This parameter is a sub parameter of the “issuer_detail” parameter, the table below shows the child parameters of the “plan_detail”:

plan_detail parameters					
Parameter Name	Type	Description	Length	Possible/ Expected Values	Example
plan_code	Alphanumeric	A code that refers to the “installments plan”.	8		NNNN89JJ
currency_code	Alpha	The currency of the transaction's amount in ISO code 3.	3		USD
number_of_installment	Numeric	The number of installments.	2		3
fees_type	Alpha	The type of the fee.	10	- Fixed - Percentage *Please refer to the formulas section to know the difference.	
fees_amount	Numeric	The amount of the fee.	10		11
processing_fees_type	Alpha	The type of the processing fee.	10	- Fixed - Percentage *Please refer to the formulas section to know the difference.	
processing_fees_amount	Numeric	The amount of the processing fee.	10		11
rate_type	Numeric	The type of the rate.	15	- Reducing Balance - Flat	
plan_merchant_type	Alpha	The type of agreement between the plan and Merchant.	11	- Partner - Non Partner	
plan_type	Alpha	The type of the installments plan.	12	- Local - Cross-Border	
fee_display_value	Numeric	The display value that represent the fees amount.	10		11.0
minimum_amount	Numeric	The minimum range of the accepted amount for this plan.	10		1000
maximum_amount	Numeric	The maximum range of the accepted amount for this plan.	10		1000000
amountPer Month	Numeric	The payable amount per month.	10		3.00

12.3.1.7 Bins Parameter

This parameter is a sub parameter of the “issuer_detail” parameter, the table below shows the child parameters of the “bins”:

bins parameters					
Parameter Name	Type	Description	Length	Possible/ Expected Values	Example
bin	Numeric	The first 6 digits of the card number.	6		478773
country_code	Alpha	The country's code in ISO 3-digits.	3		JOR
currency_code	Alpha	The currency of the transaction's amount in ISO code 3.	3		USD
card_brand_code	Alpha	The type of the credit card.	16	- VISA - Master Card - American Express	

12.3.1.8 Installments API Formulas

The monthly installments amount that are displayed on PayFort payment pages are calculated based on the below formulas:

- **Percentage Fees:** Installments interest rate in percent (%) charged to the customer by the bank.

- Rate Flat:

- Non Islamic:

Issuer:

$((\text{amount} + ((\text{amount} * (\text{fees} / 100)) * \text{months}))) / \text{months}$

Issuer:

$(\text{amount} + (\text{amount} * (\text{fees} / 100))) / \text{months}$

- Islamic:

$((\text{months} * (\text{fees} / 100)) + 1) * \text{amount} / \text{months}$

- Rate Reducing

PMT (excel function)

- **Fixed Fees:** Installments fees in fixed amount charged to the customer by the bank.

$(\text{amount} + \text{fees}) / \text{months}$

12.3.1.9 Get Installments Plans Response Sample

The following is sample of a response of an installments API request:

```
{
  "response_code": "62000",
  "response_message": "Success",
  "signature": "9b02960d319318256efbc17cf57dbc1f7e7fd046e20e49215d0bed32a065c3ae",
  "merchant_identifier": "bxgOlxlz",
  "access_code": "Ru8n1ciSJXWm8WFHLKsR",
  "query_command": "GET_INSTALLMENTS_PLANS",
  "issuer_code": "fHkigRtu",
  "installment_detail": {
    "issuer_detail": [
      {
        "issuer_code": "fHkigRtu",
        "issuer_name_ar": "بنك الامارات دبي الوطني",
        "issuer_name_en": "Emirates NBD Egypt",
        "terms_and_condition_ar": "http://www.emiratesnbd.com.eg/egypt-en/index.cfm/retail-banking/cards/special-offers/",
        "terms_and_condition_en": "http://www.emiratesnbd.com.eg/egypt-en/index.cfm/retail-banking/cards/special-offers/",
        "country_code": "EGY",
        "issuer_logo_ar": "https://stgstatic.payfort.com/frontend/files/logos/issuer/logo\_ar\_7.jpeg",
        "issuer_logo_en": "https://stgstatic.payfort.com/frontend/files/logos/issuer/logo\_en\_7.jpg",
        "banking_system": "Non Islamic",
        "formula": "((amount + ((amount * (effective rate/100)) * period))) / period",
        "plan_details": [
          {
            "plan_code": "zAS4XyG2",
            "currency_code": "USD",
            "number_of_installment": 33,
```

```
    "fees_type": "Percentage",
    "fees_amount": 300,
    "processing_fees_type": null,
    "processing_fees_amount": null,
    "rate_type": "Flat",
    "plan_merchant_type": "Non Partner",
    "plan_type": "Cross-Border",
    "fee_display_value": 400,
    "minimum_amount": 300,
    "maximum_amount": 33333300,
    "amountPerMonth": "3.00"
  }
],
"bins": [
  {
    "bin": "427838",
    "country_code": "EGY",
    "currency_code": "EGP",
    "card_brand_code": "VISA"
  },
  {
    "bin": "522025",
    "country_code": "EGY",
    "currency_code": "EGP",
    "card_brand_code": "Master Card"
  },
  {
    "bin": "543173",
    "country_code": "EGY",
```

```
        "currency_code": "EGP",
        "card_brand_code": "Master Card"
    },
    {
        "bin": "546350",
        "country_code": "EGY",
        "currency_code": "EGP",
        "card_brand_code": "Master Card"
    },
    {
        "bin": "427837",
        "country_code": "EGY",
        "currency_code": "EGP",
        "card_brand_code": "VISA"
    }
],
"confirmation_message_ar": null,
"disclaimer_message_ar": null,
"processing_fees_message_ar": null,
"confirmation_message_en": null,
"disclaimer_message_en": null,
"processing_fees_message_en": null
}
]
},
"status": "62"
}
```

12.3.2 Merchant Page 2.0 tokenization


NOTE!

First, you need to send a [Get Instalments Plans API](#) request; to get the instalments details.

12.3.2.1 Merchant Page 2.0 Tokenization URLs

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

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

12.3.2.2 Parameters Submission Type

HTTPs Form Post Request.

12.3.2.3 Merchant Page 2.0 Tokenization – Request

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

Merchant Page 2.0 Tokenization 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			4005550 0000000 01
card_security_code	Numeric	Yes	A security code for the card. * Only AMEX accepts card security code of 4 digits.	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			7cad05f0 212ed93 3c9a5d5 dffa3166 1acf2c82 7a
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.

12.3.2.4 Merchant Page 2.0 Tokenization – Response

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

Merchant Page 2.0 Tokenization 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 masked 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
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	5		20064

		status , and the last 3 digits represent the response message .			
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. *If the card number for MEEZA was of length 19 then the card bin will be the first 8 digits.	8		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.

12.3.3 Merchant Page 2.0 Operations

12.3.3.1 Merchant Page 2.0 Operations URLs

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

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

12.3.3.2 Parameters Submission Type

REST POST request using JSON.

12.3.3.3 Merchant Page 2.0 Operations – Request

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

Merchant Page 2.0 Operations 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			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
installments	Alpha	Yes	Used to specify the type of the Installments service.	10		HOSTED	
issuer_code	Alphanumeric	Yes	A code that refers to the “card issuer” the customer selected from the merchant page.	8			12HP34SE
plan_code	Alphanumeric	Yes	A code that refers to the “installments plan” the customer selected from the merchant page.	8			NNNN89JJ
customer_ip	Alphanumeric	Yes	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:fe6:bdbf
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	
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. * Only AMEX accepts card security code of 4 digits.	4			123
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 h
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 h
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 h
merchant_extra3	Alphanumeric	No	Extra data sent by merchant. Will be received and sent	250	. ; ;		JohnSmith h

			back as received. Will not be displayed in any report.		/		
					—		
					-		
					,		
					'		
					@		
merchant_ extra4	Alphanu meric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	.		
					;		
					/		
					—		
					-		
					,		
					'		
					@		JohnSmit h
merchant_ extra5	Alphanu meric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	.		
					;		
					/		
					—		
					-		
					,		
					'		
					@		JohnSmit h
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_nu mber	Numeric	No	The customer's phone number.	19	+		
					-		
					(
)		
					Space		0096279 7219966
settlement_ reference	Alphanu meric	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.

12.3.3.4 Merchant Page 2.0 Operations – Response

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

Merchant Page 2.0 Operations Response Parameters					
Parameter Name	Type	Description	Length	Possible/ Expected Values	Example
command	Alpha	Command.	20	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
installments	Alpha	Used to specify the type of the Installments service.	10	HOSTED	
issuer_code	Alphanumeric	A code that refers to the "card issuer" the customer selected from the merchant page.	8		12HP34SE
plan_code	Alphanumeric	A code that refers to the "installments plan" the customer selected from the merchant page.	8		NNNN89JJ
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
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	
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_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_extra 1	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra 2	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra 3	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra 4	Alphanumeric	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250		JohnSmith
merchant_extra 5	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 masked 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.

12.4 Installments Hosted for Trusted Channel

12.4.1 Trusted Hosted Installments – Request

Include the following parameters in the [Trusted Channel – Request Parameters](#) you will send to PayFort:

Trusted Hosted Installments 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		HOSTED	
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

12.4.2 Trusted Hosted Installments – Response

The following parameters will be returned in PayFort’s Response in addition to [Trusted Channel – 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	HOSTED	
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

12.5 FORT Transaction Feedback

12.5.1 Overview

The FORT transaction Feedback system provides Merchants with two types of configurable notifications:

1. Direct Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction is processed.
2. Notification Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction status is updated.

12.5.2 Registering Transaction Feedback URLs

1. Log in to your back-office account.
2. Select the active channel under Integration Settings → Technical Settings.
3. Enter your Direct Transaction Feedback URL and Notification Transaction Feedback URL.
4. Click "Save Changes" button.

12.5.3 Transaction Feedback Implementation

The Transaction Feedback URL is required to send the Merchant the response parameters after processing the transaction on the Merchant's server side.

For the Direct Transaction Feedback, it sends the immediate payments response in all cases, like if the user closed the browser before getting redirected to the Redirection URL due to a drop in the internet connection or he closed the browser during the Redirection, the Merchant will create an endpoint which accepts the notifications received from PayFort side as POST Method.

For the Notification Transaction Feedback, it's required to provide the Merchant the transaction final status update whenever received, like if the Transaction was pending due to the unavailability for any party, the final update will be pushed to the Notification Feedback URL as POST Method.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10 times with 10 seconds in between until it's properly acknowledged.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10, times with 10 seconds in between until it's properly acknowledged.



NOTE!

• You can check the Direct and Notification Feedback logs in your PayFort back-office Account to check the details related to the submission like the Transaction Feedback URL which was triggered, The response which our FORT system pushed, The response Code and Status returned from your Transaction Feedback URL.

- The specifics of the data will differ based upon the financial operation that has been processed. Please refer to the FORT integration guide for more details.
- If you want to change the submission type to JSON or XML, you can contact us on integration@payfort.com.
- If you want to change the grace period or the time interval between the retries please contact us on integration@payfort.com.

12.6 Installments Merchant Page Customization

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

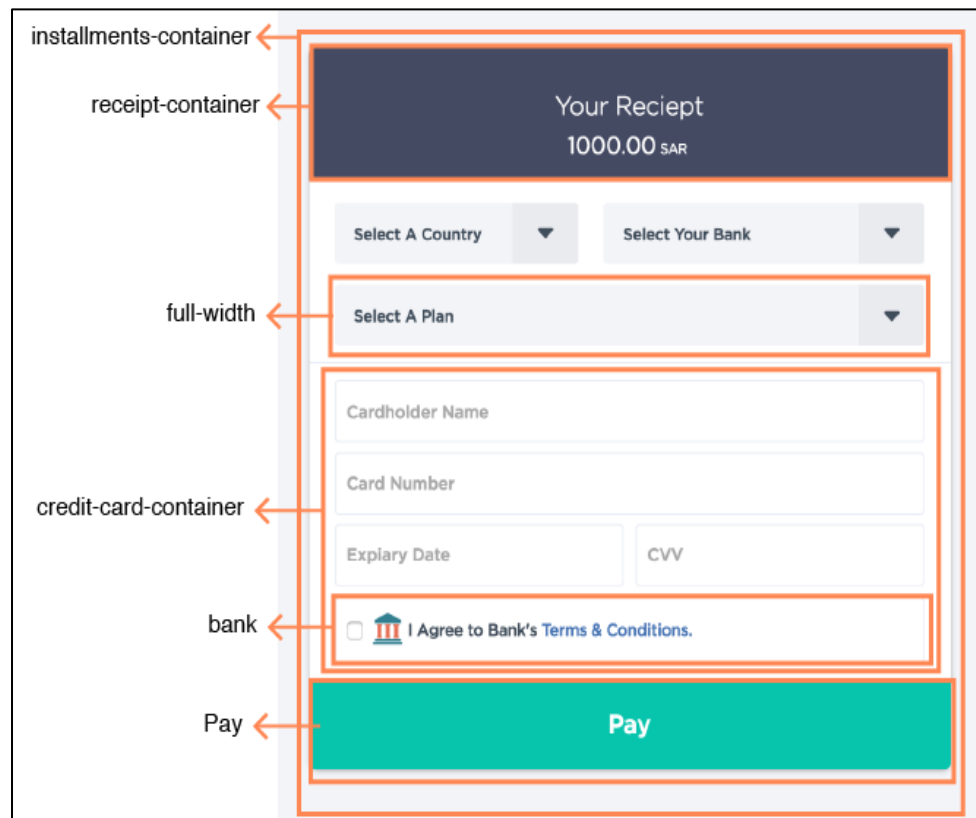


Figure 3: CSS Classes

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.

Select A Country▼

Select Your Bank▼


<input type="radio"/> 3 Months (2.9%) 350 SAR Per month
<input type="radio"/> 6 Months (2.9%) 170 SAR Per month
<input type="radio"/> 9 Months (2.9%) 120 SAR Per month

Cardholder Name

Card Number

Expiary Date

CVV

☐  I Agree to Bank's [Terms & Conditions](#).

Pay

Figure 4: Customized look - Plans as table and theme

13. Fraud Service

13.1 PayFort Fraud Service

This service protects the Merchant from 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.

13.1.1 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:caf:fef6:bdbf



NOTE!

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

13.2 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.

13.2.1 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		009627972199 66

customer_alt_phone	Numeric	No	The Customer's alternative phone. * For the <i>Telecommunications</i> sector, send: MSISDN .	19		009627972566 45
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 <i>Gaming</i> sector.	1		S
ship_first_name	Alpha	No	Ship to first name. * This parameter is not applicable for the <i>Gaming</i> sector.	30	@ - _ . , / # \ : = ? & ; () \$ Space	Rana

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

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

ship_address_city	Alphanumeric	No	Ship to address city. * This parameter is not applicable for the <i>Gaming</i> sector.	20	@ - _ . , / # \ : = ? & ; () \$ Space	Dubai
ship_address_state	Alpha	No	Ship to address state. * This parameter is not applicable for the <i>Gaming</i> sector.	3		UAE
ship_zip_code	Alphanumeric	No	Ship to post/ zip code. * This parameter is not applicable for the <i>Gaming</i> sector.	9		11183
ship_country_code	Alpha	No	Ship to country code. ISO 3-Digit country code. * This parameter is not applicable for the <i>Gaming</i> sector.	3		JOR
ship_phone	Numeric	No	Ship to home phone number. * This parameter is not applicable for the <i>Gaming</i> sector.	19		0096265534256
ship_alt_phone	Numeric	No	Ship To alternative phone. * This parameter is not applicable for the <i>Gaming</i> sector.	12		0797334465
ship_email	Alphanumeric	No	Ship to email address.	256	@ - _ .	ship@gmail.com

			* For the <i>Gaming</i> sector, send: Player Email Address .		Space	
ship_comments	Alphanumeric	No	Any shipping comments. * This parameter is not applicable for the <i>Gaming</i> sector.	160	@ - — . , / # \ : = ? & ; () \$ Space	(Any shipping comments can be entered).
ship_method	Alpha	No	The shipping method. * This parameter is not applicable for the <i>Gaming</i> sector.	1		<ul style="list-style-type: none"> - 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 <i>Retail, Gaming, Travel, or Telecommunications</i> , then the field value must contain the "Concatenated Billing Address".	256	@ - — . , / # \ : =	

					? & ; () \$ Space	
fraud_extra2	Alphanumeric	No	If the sector is <i>Retail</i> , <i>Travel</i> , or <i>Telecommunications</i> , the value of the field must be the "Concatenated Shipping Address" as follows: <i>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.</i> * This parameter is not applicable for the <i>Gaming</i> sector.	256	@ - — . ' / # \ : = ? & ; () \$ Space	
fraud_extra3	Alphanumeric	No	If the sector is <i>Retail</i> , <i>Gaming</i> , <i>Travel</i> , or <i>Telecommunications</i> , the value must be the "Address Verification (PayPal)".	256	@ - — . ' / # \ : = ? & ; () \$ Space	
fraud_extra4	Alphanumeric	No	If the sector is <i>Retail</i> , <i>Gaming</i> , <i>Travel</i> , or	256	@ -	

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

					() \$ Space	
fraud_extra7	Alphanumeric	No	If the sector is <i>Retail, Gaming, Travel, or Telecommunications</i> , the value must be the "Credit Score (PayPal)".	256	@ - — . , / # \ : = ? & ; () \$ Space	
fraud_extra8	Alphanumeric	No	If the sector is <i>Telecommunications</i> , the value must be the "Account Number" (if multiple MSISDN per account).	256	@ - — . , / # \ : = ? & ; () \$ Space	
fraud_extra9	Alphanumeric	No	If the sector is <i>Telecommunications</i> , the value must be the "MSISDN Age in days".	256	@ - — . , / # \ : = ? & ; () \$ Space	

					# \ : = ? & ; () \$ Space	
fraud_extra10	Alphanumeric	No	<p>- If the sector is <i>Travel</i>, the value must be the "Full Travel Itinerary".</p> <p>- If the sector is <i>Telecommunications</i>, the value must be the "Earliest Account Activity/ First Call Date".</p>	256	@ - — . , / # \ : = ? & ; () \$ Space	
fraud_extra11	Alphanumeric	No	If the sector is <i>Retail</i> , <i>Gaming</i> , <i>Travel</i> , or <i>Telecommunications</i> , the value must be the "Account Age".	30	@ - — . , / # \ : = ? & ; () \$ Space	

fraud_extra12	Alphanumeric	No	If the sector is <i>Retail, Travel, or Telecommunications</i> , the value must be the "Number of Previous Orders Sent to the Shipping Address".	30	@ - — . ' / # \ : = ? & ; () \$ Space	
fraud_extra13	Alphanumeric	No	If the sector is <i>Retail, Gaming, Travel, or Telecommunications</i> , 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 <i>Retail, Gaming, Travel, or Telecommunications</i> , the value must be the "Number of Days Since the Password was Changed".	30	@ - — . ' / # \ : = ?	

					? & ; () \$ Space	
fraud_extra16	Alphanumeric	No	If the sector is <i>Retail, Gaming, Travel, or Telecommunications</i> , 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 <i>Retail, Gaming, Travel, or Telecommunications</i> , the value must be the "Event/Promotion Flag".	30	@ - — . , / # \ : = ? & ; () \$ Space	
fraud_extra18	Alphanumeric	No	- If the sector is <i>Retail, Gaming, or</i>	30	@ -	

			<p><i>Telecommunications</i>, the value must be the "Sales Channel".</p> <p>- If the sector is <i>Travel</i>, the value must be the "Third Party Booking Flag, Yes or No".</p>		<p>— . , / # \ : = ? & ; () \$ Space</p>	
fraud_extra19	Alphanumeric	No	<p>- If the sector is <i>Retail</i>, <i>Travel</i>, or <i>Telecommunications</i>, the value must be the "Private/ Business/ Trade" (customerType).</p> <p>- If the sector is <i>Gaming</i>, the value must be the "Customer Gaming ID".</p>	30	<p>@ - — . , / # \ : = ? & ; () \$ Space</p>	
fraud_extra20	Alphanumeric	No	<p>- If the sector is <i>Retail</i>, <i>Gaming</i>, or <i>Telecommunications</i>, the value must be the "Number of Previous Successful Transactions".</p> <p>- If the sector is <i>Travel</i>, the value must be the "Number of Previous Successful Bookings".</p>	30	<p>@ - — . , / # \ : = ? &</p>	

					; () \$ Space	
fraud_extra21	Alphanumeric	No	- If the sector is <i>Gaming</i> , the values must be the "Gift for Other Player Flag". - If the sector is <i>Travel</i> , the value must be the "Booking Type". - If the sector is <i>Telecommunications</i> , the value must be the "Payment Type".	30	@ - — : ' / # \ : = ? & ; () \$ Space	
fraud_extra22	Alphanumeric	No	- If the sector is <i>Gaming</i> , the values must be the "Playing Time". - If the sector is <i>Travel</i> , the value must be the "Time to First Departure in Hours". - If the sector is <i>Telecommunications</i> , the value must be the "Number of Previous Successful Top-ups".	30	@ - — : ' / # \ : = ? & ; () \$ Space	
fraud_extra23	Alphanumeric	No	If the sector is <i>Retail</i> , <i>Gaming</i> , <i>Travel</i> , or <i>Telecommunications</i> , the value must be the "Channel (IVR	30	@ - — .	

			vs. Web vs. Mobile Application, etc.).		' / # \ : = ? & ; () \$ Space	
fraud_extra24	Alphanumeric	No	<ul style="list-style-type: none"> - If the sector is <i>Gaming</i>, the values must be the "Premium Account Balance". - If the sector is <i>Travel</i>, the value must be the "Loyalty Scheme". - If the sector is <i>Telecommunications</i>, the value must be the "Sim IMSI (International Mobile Subscriber Identity)". 	30	@ - — . ' / # \ : = ? & ; () \$ Space	
fraud_extra25	Alphanumeric	No	<ul style="list-style-type: none"> - If the sector is <i>Gaming</i>, the values must be the "Game Account Balance". - If the sector is <i>Travel</i>, the value must be the "Loyalty Scheme Member Number". - If the sector is <i>Telecommunications</i>, 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	@ - _ . : / # \ : = ? & ; () \$ % + ! Space	04003hQUMX GB0po...

13.2.2 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 <i>Gaming</i> sector, send: Clan .	10		4
item_sku	Alphanumeric	No	The item's commodity or "Stock Keeping Unit" code. * For the <i>Gaming</i> sector, send: Gold balance .	12	@ - _ . :	1ShirtBlueM

					/ # \ : = ? & ; () \$ Space	
item_prod_code	Alphanumeric	No	The item's product code. * For the <i>Gaming</i> sector, send: Silver balance .	12	@ - — : , / # \ : = ? & ; () \$ Space	MOB111
item_part_no	Alphanumeric	No	The item's Manufacturers Part or EAN number. * For the <i>Gaming</i> sector, send: Exp balance . * For the <i>Travel</i> sector, send: Flight/ Train/ Bus Number .	30	@ - — : , / # \ : = ? & ; (TSR-1002

) \$ Space	
item_description	Alphanumeric	No	The item's description. * For the <i>Gaming</i> sector, send: Date of first credit. * For the <i>Travel</i> sector, send: Ticket Delivery Method .	256	- — , , . Space	iPhone 6-S
item_price	Numeric	No	The item's unit price (lowest denomination). * For the <i>Travel</i> sector, send: Ticket Price .	10		700
item_shipping_no	Alphanumeric	No	The item's shipping/tracking number. * For the <i>Travel</i> sector, send: Ticket Departure Date And Time .	19	@ - — . , / # \ : = ? & ; () \$ Space	AB586985609 GB
item_shipping_method	Alpha	No	The item's shipping method. * For the <i>Retail</i> , <i>Travel</i> , <i>Telecommunications</i> sectors, send: New Shipping Address Flag . * This parameter is not applicable for the <i>Gaming</i> 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 <i>Travel</i> sector, send: Ticket Itinerary .	160	@ - — . , / # \ : = ? & ; () \$ Space	(Any shipping comments can be entered).
item_gift_message	Alphanumeric	No	The item's gift message. * For the <i>Retail</i> and <i>Telecommunications</i> sectors, send: High Risk Product Flag .	160	@ - — . , / # \ : = ? & ; () \$ Space	
rcpt_title	Alphanumeric	No	The Recipient's title. * For the <i>Retail</i> and <i>Telecommunications</i> sectors, this parameter should be sent if multiple shipping addresses are available.	5	@ - — . , / #	Mr.

			* For the <i>Travel</i> sector, send: Adult/Child/Infant flag.		\ : = ? & ; () \$ Space	
rcpt_first_name	Alphanumeric	No	The Recipient's first name. * For the <i>Retail</i> and <i>Telecommunications</i> sectors, this parameter should be sent if multiple shipping addresses are available. * For the <i>Travel</i> sector, send: Passenger First Name.	30	@ - _ . , / # \ : = ? & ; () \$ Space	Mohammad
rcpt_middle_initial	Alphanumeric	No	The Recipient's middle initial. * For the <i>Retail</i> and <i>Telecommunications</i> sectors, this parameter should be sent if multiple shipping addresses are available. * For the <i>Travel</i> sector, send: Passenger Middle Initial.	1	@ - _ . , / # \ : = ? & ; () \$ Space	R

rcpt_last_name	Alphanumeric	No	The Recipient's last name. * For the <i>Retail</i> and <i>Telecommunications</i> sectors, this parameter should be sent if multiple shipping addresses are available. * For the <i>Travel</i> sector, send: Passenger Last Name.	30	@ - — . , / # \ : = ? & ; () \$ Space	Tawfeeq
rcpt_apartment_no	Alphanumeric	No	The Recipient's apartment number. * For the <i>Retail</i> and <i>Telecommunications</i> sectors, this parameter should be sent if multiple shipping addresses are available. * For the <i>Travel</i> sector, send: Travel Class; i.e.: Standard/ Economy etc.	30	@ - — . , / # \ : = ? & ; () \$ Space	12
rcpt_address 1	Alphanumeric	No	The Recipient's address line 1. * For the <i>Retail</i> and <i>Telecommunications</i> sectors, this parameter should be sent if multiple shipping addresses are available. * For the <i>Travel</i> sector, send:	30	@ - — . , / # \ : = ? & ; () \$ Space	Amman – Khalda

			Departure Airport/ Station Code/ City.		= ? & ; () \$ Space	
rcpt_address 2	Alphanumeric	No	The Recipient's address line 2 (for extra details). * For the <i>Retail</i> and <i>Telecommunications</i> sectors, this parameter should be sent if multiple shipping addresses are available. * For the <i>Travel</i> sector, send: Arrival Airport/ Station Code/ City.	30	@ - — . , / # \ : = ? & ; () \$ Space	Al Sati St.
rcpt_city	Alphanumeric	No	The Recipient's city. * For the <i>Retail</i> and <i>Telecommunications</i> sectors, this parameter should be sent if multiple shipping addresses are available. * For the <i>Travel</i> sector, send: Booking Type.	30	@ - — . , / # \ : = ? & ; () \$ Space	Sharjah
rcpt_state	Alphanumeric	No	The Recipient's state.	10	@ -	Qatar

			<p>* For the <i>Retail</i> and <i>Telecommunications</i> sectors, this parameter should be sent if multiple shipping addresses are available.</p> <p>* For the <i>Travel</i> sector, send: Departure Country 3 Digit ISO Code.</p>		<p>— . , / # \ : = ? & ; () \$ Space</p>	
rcpt_zip_code	Alphanumeric	No	<p>The Recipient's post/zip code.</p> <p>* For the <i>Retail</i> and <i>Telecommunications</i> sectors, this parameter should be sent if multiple shipping addresses are available.</p> <p>* For the <i>Travel</i> sector, send: Ticket Type; i.e.: One Way/Return etc.</p>	10	<p>@ - — . , / # \ : = ? & ; () \$ Space</p>	11183
rcpt_country_code	Alpha	No	<p>The Recipient's country code.</p> <p>ISO 3-Digit country code.</p> <p>* For the <i>Retail</i> and <i>Telecommunications</i> sectors, this parameter should be sent if multiple shipping addresses are available.</p> <p>* For the <i>Travel</i> sector, send: Arrival Country.</p>	3		JOR

rcpt_phone	Numeric	No	The Recipient's phone number. * For the <i>Retail</i> and <i>Telecommunications</i> sectors, this parameter should be sent if multiple shipping addresses are available.	19		009627976755 43
rcpt_email	Alphanumeric	No	The Recipient's email address. * For the <i>Retail</i> and <i>Telecommunications</i> sectors, this parameter should be sent if multiple shipping addresses are available. * For the <i>Travel</i> sector, send: Passenger Name Record.	45	@ - _ . Space	recipient@hotmail.com

13.2.3 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

13.2.4 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}]}"
```

13.2.5 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>
```


14. 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.

14.1 Invoicing Service 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 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 consideration when sending the amount.	10			100 USD =1.00USD
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
link_command	Alphanumeric	No	Link operation to be executed.	15		- AUTHORIZATION - PURCHASE	
payment_link_id	Alphanumeric	No	The ID of the generated Invoice payment link.	20	- — .		148708392700020346
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)	

						- MADA (for Purchase operations and eci Ecommerce only). Click here to download MADA branding document. - MEEZA (for Purchase operations and ECOMMERCE eci 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.

14.4 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
link_command	Alphanumeric	Link operation to be executed.	15	- AUTHORIZATION - PURCHASE	
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) - MADA (for Purchase operations and eci Ecommerce only). Click here to download MADA branding document. - MEEZA (for Purchase operations and ECOMMERCE eci 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) - MADA (for Purchase operations and eci Ecommerce only). Click here to download MADA branding document. - MEEZA (for Purchase operations and ECOMMERCE eci 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
merchant_extra5	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	5		20064

		represent the response message .			
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 masked credit card's number. *Only the MEEZA payment option takes 19 digits card number. *AMEX payment option takes 15 digits card number. *Otherwise, they take 16 digits card number.	19		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

14.5 FORT Transaction Feedback

14.5.1 Overview

The FORT transaction Feedback system provides Merchants with two types of configurable notifications:

1. Direct Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction is processed.
2. Notification Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction status is updated.

14.5.2 Registering Transaction Feedback URLs

1. Log in to your back-office account.
2. Select the active channel under Integration Settings → Technical Settings.
3. Enter your Direct Transaction Feedback URL and Notification Transaction Feedback URL.
4. Click "Save Changes" button.

14.5.3 Transaction Feedback Implementation

The Transaction Feedback URL is required to send the Merchant the response parameters after processing the transaction on the Merchant's server side.

For the Direct Transaction Feedback, it sends the immediate payments response in all cases, like if the user closed the browser before getting redirected to the Redirection URL due to a drop in the internet connection or he closed the browser during the Redirection, the Merchant will create an endpoint which accepts the notifications received from PayFort side as POST Method.

For the Notification Transaction Feedback, it's required to provide the Merchant the transaction final status update whenever received, like if the Transaction was pending due to the unavailability for any party, the final update will be pushed to the Notification Feedback URL as POST Method.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10 times with 10 seconds in between until it's properly acknowledged.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10, times with 10 seconds in between until it's properly acknowledged.

**NOTE!**

- You can check the Direct and Notification Feedback logs in your PayFort back-office Account to check the details related to the submission like the Transaction Feedback URL which was triggered, The response which our FORT system pushed, The response Code and Status returned from your Transaction Feedback URL.
- The specifics of the data will differ based upon the financial operation that has been processed. Please refer to the FORT integration guide for more details.
- If you want to change the submission type to JSON or XML, you can contact us on integration@payfort.com.
- If you want to change the grace period or the time interval between the retries please contact us on integration@payfort.com.

15. MOTO Channel

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

15.1 MOTO 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 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			zx0IPmPy5 jp1vAz8Kp g7
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	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			7cad05f02 12ed933c9 a5d5dffa31 661acf2c82 7a
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.	45	. :		IPv4 →192.178.1.10 IPv6 →2001:0db8:3042:0002:5a5

			*We support IPv4 and IPv6 as shown in the example on the right hand side.				5: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	+ - () Space		009627972 19966
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.	250	.		JohnSmith

			Will be 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
merchant_extra5	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 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.

15.4 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:c aff:fef6:bdbf
customer_name	Alpha	The customer's name.	40		John Smith
authorization_code	Alphanumeric	The authorization code returned from the 3rd party.	100		P1000000000000 372136
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 masked 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
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
merchant_extra5	Alphanumeric	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	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.

15.5 FORT Transaction Feedback

15.5.1 Overview

The FORT transaction Feedback system provides Merchants with two types of configurable notifications:

1. Direct Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction is processed.
2. Notification Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction status is updated.

15.5.2 Registering Transaction Feedback URLs

1. Log in to your back-office account.
2. Select the active channel under Integration Settings → Technical Settings.
3. Enter your Direct Transaction Feedback URL and Notification Transaction Feedback URL.
4. Click "Save Changes" button.

15.5.3 Transaction Feedback Implementation

The Transaction Feedback URL is required to send the Merchant the response parameters after processing the transaction on the Merchant's server side.

For the Direct Transaction Feedback, it sends the immediate payments response in all cases, like if the user closed the browser before getting redirected to the Redirection URL due to a drop in the internet connection or he closed the browser during the Redirection, the Merchant will create an endpoint which accepts the notifications received from PayFort side as POST Method.

For the Notification Transaction Feedback, it's required to provide the Merchant the transaction final status update whenever received, like if the Transaction was pending due to the unavailability for any party, the final update will be pushed to the Notification Feedback URL as POST Method.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10 times with 10 seconds in between until it's properly acknowledged.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10, times with 10 seconds in between until it's properly acknowledged.

**NOTE!**

- You can check the Direct and Notification Feedback logs in your PayFort back-office Account to check the details related to the submission like the Transaction Feedback URL which was triggered, The response which our FORT system pushed, The response Code and Status returned from your Transaction Feedback URL.
- The specifics of the data will differ based upon the financial operation that has been processed. Please refer to the FORT integration guide for more details.
- If you want to change the submission type to JSON or XML, you can contact us on integration@payfort.com.
- If you want to change the grace period or the time interval between the retries please contact us on integration@payfort.com.

16. 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.

16.1 Trusted Channel 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 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	Alpha numeric	Yes	Access code.	20			zx0IPmPy5j p1vAz8Kpg 7
merchant_identifier	Alpha numeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alpha numeric	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	Alpha numeric	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. *Only the MEEZA payment option takes 19 digits card number. *AMEX payment option takes 15 digits card number. *Otherwise, they take 16 digits card number.	19			4005550000 000001
card_security_code	Numeric	---	The clear card security code collect on the merchant's checkout page. *It's ONLY mandatory in the ecommerce requests. * Only AMEX accepts card security code of 4 digits.	4			123

customer_ip	Alpha numeric	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
signature	Alpha numeric	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	Alpha numeric	No	The Token received from the Tokenization process.	100	.	@	Op9Vmp
payment_option	Alpha	No	Payment option.	10			- MASTERCARD - VISA - AMEX - MADA (for Purchase operations and eci Ecommerce only). Click here to download MADA branding document. - MEEZA (for Purchase operations and ECOMMERCE eci only)
order_description	Alpha numeric	No	It holds the description of the order.	150	#		iPhone 6-S

					Space		
customer_name	Alpha	No	The customer's name.	40	— \ / - . ' Space		John Smith
phone_number	Numeric	No	The customer's phone number.	19	+ - () Space		0096279721 9966
settlement_reference	Alpha numeric	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	Alpha numeric	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	Alpha numeric	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	Alpha numeric	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	Alpha numeric	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	Alpha numeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / — - , ' @		JohnSmith
merchant_extra5	Alpha numeric	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	Alpha numeric	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.

16.4 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 masked credit card's number. *Only the MEEZA payment option takes 19 digits card number. *AMEX payment option takes 15 digits card number. *Otherwise, they take 16 digits card number.	19		400555*****0001

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
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dfa31661acf2c827a
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	<ul style="list-style-type: none"> - MASTERCARD - VISA - AMEX - MADA (for Purchase operations and eci Ecommerce only). Click here to download MADA branding document. - MEEZA (for Purchase operations and ECOMMERCE eci 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
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	250		JohnSmith

		received. Will not be displayed in any report.			
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
merchant_extra5	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	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.

16.5 How to add the Tokenization service on the Merchant Page 2.0 channel?

The Tokenization service is applicable to be integrated through the Merchant Page 2.0 Channel through the below steps:

1. Processes the first PURCHASE/ AUTHORIZATION payment successfully.
2. The Merchant will receive a token_name in the response. This token_name should be considered as a permanent token name, and it can be used in the future customer's payments by submitting the token_name in the next PURCHASE/ AUTHORIZATION payment with card_security_code parameter.
3. No need to open the Merchant Page to fill all the card details again in the next checkouts.

If the Customer wants to update/ delete his card, you should check [Update Token](#) section.



NOTE!

Please refer to section [FORT Tokenization Service](#) for more details about the token name parameter.

16.6 FORT Transaction Feedback

16.6.1 Overview

The FORT transaction Feedback system provides Merchants with two types of configurable notifications:

1. Direct Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction is processed.
2. Notification Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction status is updated.

16.6.2 Registering Transaction Feedback URLs

1. Log in to your back-office account.
2. Select the active channel under Integration Settings → Technical Settings.
3. Enter your Direct Transaction Feedback URL and Notification Transaction Feedback URL.
4. Click "Save Changes" button.

16.6.3 Transaction Feedback Implementation

The Transaction Feedback URL is required to send the Merchant the response parameters after processing the transaction on the Merchant's server side.

For the Direct Transaction Feedback, it sends the immediate payments response in all cases, like if the user closed the browser before getting redirected to the Redirection URL due to a drop in the internet connection or he closed the browser during the Redirection, the Merchant will create an endpoint which accepts the notifications received from PayFort side as POST Method.

For the Notification Transaction Feedback, it's required to provide the Merchant the transaction final status update whenever received, like if the Transaction was pending due to the unavailability for any party, the final update will be pushed to the Notification Feedback URL as POST Method.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10 times with 10 seconds in between until it's properly acknowledged.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10, times with 10 seconds in between until it's properly acknowledged.

**NOTE!**

- You can check the Direct and Notification Feedback logs in your PayFort back-office Account to check the details related to the submission like the Transaction Feedback URL which was triggered, The response which our FORT system pushed, The response Code and Status returned from your Transaction Feedback URL.
- The specifics of the data will differ based upon the financial operation that has been processed. Please refer to the FORT integration guide for more details.
- If you want to change the submission type to JSON or XML, you can contact us on integration@payfort.com.
- If you want to change the grace period or the time interval between the retries please contact us on integration@payfort.com.

17. 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.

17.1 Bill Presentment URLs

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

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

17.2 Parameters Submission Type

REST POST request using JSON.

17.3 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 consideration when sending the amount.	10			10000

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			7cad05f02 12ed933c 9a5d5dffa 31661acf2 c827a
customer_email	Alphanumeric	No	The customer's email.	254	— - . @ +		customer@domain.com
customer_name	Alpha	No	The customer's name.	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.

17.4 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		zx0lPmPy5jp1vAz8Kpg7
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
customer_email	Alphanumeric	The customer's email.	254		customer@domain.com
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.	5		20064

		*The code consists of five digits, the first 2 digits represent the response status , and the last 3 digits represent the response message .			
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. Digital Wallets

18.1 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.

**NOTE!**

PAYFORT now supports MasterPass Redirect v7 in addition to v6.

18.1.1 MasterPass Redirection

18.1.1.1 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 [MasterPass 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>
```

18.1.1.2 MasterPass Service URLs

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

18.1.1.3 Parameters Submission Type

HTTPs Form Post Request.

18.1.1.4 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			zx0IPmPy5j p1vAz8Kpg 7
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	\$		<i>Check the note below the table</i>

			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			7cad05f021 2ed933c9a5 d5dffa31661 acf2c827a
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	+ - () Space		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.

18.1.1.5 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		zx0IPmPy5jp1vA z8Kpg7
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:fe6: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



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

MasterPass Hosted accepts digital wallet transactions without redirection to Masterpass pages and instead; it will be hosted on the Merchant website.

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

REST POST request using JSON.

18.1.2.3 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			zx0IPmPy5j p1vAz8Kpg 7
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

					. @ +		
oauth_verifier	Alphanumeric	Yes	MasterPass transaction ID, returned by MasterPass light box response.	100			ed91ead4faa0c00673fe771c1027f247f7ddf04
cart_details	Alphanumeric	Yes	This parameter is a parent parameter for other parameters that contain the details of the shopping cart created by the Merchant.	999	\$		<i>Check the note below the table</i>
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			7cad05f021 2ed933c9a5 d5dffa31661 acf2c827a
order_description	Alphanumeric	No	It holds the description of the order.	150	# , / . — - : \$ Space		iPhone 6-S
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 →192.1 78.1.10 IPv6 →2001: 0db8:3042:0 002:5a55:ca ff:fef6:bdbf
customer_name	Alpha	No	The customer's name.	40	— \ / - . , Space		John Smith
phone_number	Numeric	No	The customer's phone number.	19	+ - () Space		0096279721 9966
settlement_reference	Alphanumeric	No	The Merchant submits this value to the	34	- — .		XYZ9239- yu898

			FORT. The value is then passed to the Acquiring bank and displayed 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!**

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.

18.1.2.4 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		zx0IPmPy5jp1vA z8Kpg7
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
oauth_verifier	Alphanumeric	MasterPass transaction ID, returned by MasterPass light box response.	100		ed91ead4afaa0c 00673fe771c102 7f247f7ddf04
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		7cad05f0212ed9 33c9a5d5dffa316 61acf2c827a
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:bd bf
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
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		a4a6w4cm1iej1igb8j5ha1igi4spzo4xxx
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.

18.2 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:

18.2.1 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>
```

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

```
<body>
  
</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

- 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

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

```

```

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

```

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_CHEC KOUT	

call_id	Alphanumeric	Yes	Visa Checkout transaction ID, returned by Visa Checkout light box response as "callId" parameter.	100			3000545 5114793 92001
---------	--------------	-----	---	-----	--	--	-----------------------------

**NOTE!**

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

2.1.2 Merchant Hosted Visa Checkout – Response

The following parameters will be returned in PayFort's Response in addition 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.

18.2.2 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.

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

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 Checkout 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.

18.3 FORT Transaction Feedback

18.3.1 Overview

The FORT transaction Feedback system provides Merchants with two types of configurable notifications:

1. Direct Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction is processed.
2. Notification Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction status is updated.

18.3.2 Registering Transaction Feedback URLs

1. Log in to your back-office account.
2. Select the active channel under Integration Settings → Technical Settings.
3. Enter your Direct Transaction Feedback URL and Notification Transaction Feedback URL.
4. Click “Save Changes” button.

18.3.3 Transaction Feedback Implementation

The Transaction Feedback URL is required to send the Merchant the response parameters after processing the transaction on the Merchant’s server side.

For the Direct Transaction Feedback, it sends the immediate payments response in all cases, like if the user closed the browser before getting redirected to the Redirection URL due to a drop in the internet connection or he closed the browser during the Redirection, the Merchant will create an endpoint which accepts the notifications received from PayFort side as POST Method.

For the Notification Transaction Feedback, it’s required to provide the Merchant the transaction final status update whenever received, like if the Transaction was pending due to the unavailability for any party, the final update will be pushed to the Notification Feedback URL as POST Method.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10 times with 10 seconds in between until it’s properly acknowledged.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10, times with 10 seconds in between until it’s properly acknowledged.



NOTE!

- You can check the Direct and Notification Feedback logs in your PayFort back-office Account to check the details related to the submission like the Transaction Feedback URL which was triggered, The response which our FORT system pushed, The response Code and Status returned from your Transaction Feedback URL.
- The specifics of the data will differ based upon the financial operation that has been processed. Please refer to the FORT integration guide for more details.
- If you want to change the submission type to JSON or XML, you can contact us on integration@payfort.com.
- If you want to change the grace period or the time interval between the retries please contact us on integration@payfort.com.

19. Reporting API

This service allows Merchants to generate a customized report via FORT API. Merchants can specify the columns to be included and filters, then download the generated report. The Merchant is allowed to use this service once daily on production environment, the report is limited to 200,000 transactions.

19.1 Report Builder URLs

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

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

19.2 Parameters Submission Type

REST POST request using JSON.

19.3 How it works

1. The Merchant submits “Generate report” request. This request allows the merchant to generate specify the filters and columns included in the downloaded report.
2. The FORT returns the “Generate Report” response.
3. The Merchant submits the “download report.” request using the same merchant reference used to generate the report.

19.4 Generate Report – Request

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

Generate Report Request Parameters							
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/ Expected Values	Example
query_command	Alpha	Yes	Query operations command.	50	–	GENERATE_REPORT	
access_code	Alphanumeric	Yes	Merchant account Access Code.	20			zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	Yes	FORT Merchant Account identifier.	20			CycHZxVj
merchant_reference	Alphanumeric	Yes	The Merchant's unique reference for a specific request.	40	- _ .		XYZ9239-yu898

from_date	Alphanumeric	Yes	Query parameter to filter from a specific date.	30	+ - :		2017-01-01T14:36:55+03:00
to_date	Alphanumeric	Yes	Query parameter to filter the results till a specific date.	30	+ - :		2017-06-28T14:36:55+03:00
columns	List	Yes	The columns the merchant wants to include in the generated report.	110	–	(Please refer to section column parameters).	
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0 212ed93 3c9a5d5 dffa3166 1acf2c82 7a
language	Alpha	No	The checkout page and messages language.	2		- en - ar	
response_format	Alpha	No	The FORT response format; whether its JSON or XML. *The default response format is "JSON".	4		- JSON - XML	
filters	List	No	The filters the merchant wants to use to filter the generated report results.	10			(Please refer to section filters Parameters).

19.4.1 Columns Parameter

The following table contains all the possible values you want to revert in your response, you can choose any of them:

The values of columns parameter	
Value	Description
fort_id	The order's unique reference returned by our system.
merchant_reference	The Merchant's unique order number.

authorization_code	The authorization code returned from the 3 rd party responsible for processing the transaction.
customer_name	The Customer's name.
customer_ip	The customer's IP address; where the Merchant sends as part of the authorization/ purchase request.
geolocation_ip	The card for the Customer's computer.
customer_email	The Customer's email; where the Merchant sends with the authorization/purchase request.
acquirer_name	The name of the Acquirer.
payment_option	The payment option use to process the authorization/ purchase request.
channel	The FORT channel used to receive the authorization/purchase request.
transaction_date	The date of the transaction.
card_number	The card number used to process the transaction.
expiry_date	The card's expiry date.
card_holder_name	The cardholder's name.
amount	The transaction's amount.
currency	The currency of the transaction's amount in ISO code 3.

card_bin	The bank identification number (BIN); which is the initial four to eight numbers that appear on a credit card.
eci	The E-commerce indicator associated with the transactions authorization/ purchase request.
operation	The operation type (authorization, purchase, void authorization, capture, and refund).
token_name	The Token associated with the card used to process the transaction.
3ds_indicator	This indicator will hold the value “yes” in case 3-D Secure check was performed on a specific transaction. Otherwise, it will holds the value “no”.
fraud_indicator	This indicator will hold the value “yes” in case fraud check was performed on a specific transaction. Otherwise, it will holds the value “no”.
installments_indicator	This indicator will hold the value “yes” in case installments service was applied on a specific transaction. Otherwise, it will holds the value “no”.
status	A two-digit numeric value that indicates the status of the transaction.
response_code	Carries the value of our system's response.
response_message	The Message description of the response code. It returns according to the request language.
third_party_message	The message retrieved from the third party.
third_party_code	The code retrieved from the third party.
order_date	The creation date of the order.
order_description	The description of the order provided by the merchant.

acquirer_mid	The Acquirer Merchant identifier.
acquirer_response_code	The code the Acquirer returns.
acquirer_response_message	The message the Acquirer returns.
processor_response_code	The code the Processor returns.
sadad_olp	SADAD Online Payment ID Alias. The value that SADAD's Customer provides to process SADAD order.
sadad_transaction_id	The identifier returned by SADAD for a specific SADAD transaction.
payment_link_id	Payment link unique identifier.
invoice_id	The identification for a specific subscription service.
digital_wallet	The buyer's digital wallet.

19.4.2 Filters Parameter

Include the following parameters into “filters” parameter you will send to PayFort:

filters parameters						
Parameter Name	Type	Description	Length	Special Characters	Possible/ Expected Values	Example
key	Alphanumeric	The name of the column you want to filter. You can choose more than key.	110	# , \, / . — - @	(Please refer to section key Parameters).	

				:		
				Space		
value	Alphanu meric	The value of the key you want to revert in your response. It depends on the key you have chosen to revert.				

19.4.2.1 Key Parameter

The following table contains all the possible values of the “key” parameter, you can choose any of them:

The values of key parameter		
Value	Description	Possible/ Expected Values
fort_id	The order's unique reference returned by our system.	
merchant_reference	The Merchant's unique order number.	
authorization_code	The authorization code returned from the 3 rd party responsible for processing the transaction.	
customer_name	The Customer's name.	
customer_ip	The customer's IP address; where the Merchant sends as part of the authorization/ purchase request.	
geolocation_ip	The card for the Customer's computer.	
customer_email	The Customer's email; where the Merchant sends with the authorization/purchase request.	
acquirer_name	The name of the Acquirer.	

payment_option	The payment option use to process the authorization/ purchase request.	<ul style="list-style-type: none"> - MASTERCARD - VISA - AMEX - SADAD - NAPS - KNET - MADA - MEEZA
channel	The FORT channel used to receive the authorization/purchase request.	<ul style="list-style-type: none"> - MOTO - Trusted - Merchant Page - Redirection - eTerminal - Recurring
transaction_date	The date of the transaction.	
card_number	The card number used to process the transaction.	
expiry_date	The card's expiry date.	
card_holder_name	The cardholder's name.	
amount	The transaction's amount.	
currency	The currency of the transaction's amount in ISO code 3.	
card_bin	The bank identification number (BIN); which is the initial four to eight numbers that appear on a credit card.	
eci	The E-commerce indicator associated with the transactions authorization/ purchase request.	<ul style="list-style-type: none"> - ECOMMERCE - RECURRING - MOTO

operation	The operation type (authorization, purchase, void authorization, capture, and refund)	
token_name	The Token associated with the card used to process the transaction.	
3ds_indicator	This indicator will hold the value “yes” in case 3-D Secure check was performed on a specific transaction. Otherwise, it will holds the value “no”.	- YES - NO
fraud_indicator	This indicator will hold the value “yes” in case fraud check was performed on a specific transaction. Otherwise, it will holds the value “no”.	- YES - NO
installments_indicator	This indicator will hold the value “yes” in case installments service was applied on a specific transaction. Otherwise, it will holds the value “no”.	- YES - NO
status	A two-digit numeric value that indicates the status of the transaction.	
response_code	Carries the value of our system's response.	
response_message	The Message description of the response code. It returns according to the request language.	
third_party_message	The message retrieved from the third party.	
order_date	The creation date of the order.	
order_description	The description of the order provided by the merchant.	

acquirer_mid	The Acquirer Merchant identifier.	
acquirer_response_code	The code the Acquirer returns.	
acquirer_response_message	The message the Acquirer returns.	
processor_response_code	The code the Processor returns.	
sadad_olp	SADAD Online Payment ID Alias. The value that SADAD's Customer provides to process SADAD order.	
sadad_transaction_id	The identifier returned by SADAD for a specific SADAD transaction.	
payment_link_id	Payment link unique identifier.	
invoice_id	The identification for a specific subscription service.	
digital_wallet	The buyer's digital wallet.	- MASTERPASS - VISA_CHECKOUT - APPLE_PAY

**Generate Report Request Example!**

```
{
  "query_command": "GENERATE_REPORT",
  "access_code": "zx0IPmPy5jp1vAz8Kpg7",
  "merchant_identifier": "CycHZxVj",
  "merchant_reference": "XYZ9239-yu898",
  "from_date": "2017-08-03T00:00:01+03:00",
  "to_date": "2017-08-03T23:59:59+03:00",
  "response_format": "JSON",
```

```
"language": "en",
"columns": [
    "order_description",
    "customer_ip",
    "eci",
    "geolocation_ip",
    "merchant_reference",
    "card_holder_name",
    "currency",
    "amount",
    "payment_option",
    "fort_id",
    "customer_email",
    "customer_name",
    "operation",
],
"filters": [
{
    "key": "currency",
    "value": "USD"
},
{
    "key": "payment_option",
    "value": "VISA"
}
],
"signature":
"03a36d58acfc611f521528f2039a2228031d7ae4248d95181f2a24cfbe9f7865"
}
```

19.5 Generate Report - Response

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

Generate Report Response Parameters					
Parameter Name	Type	Description	Length	Possible/ Expected Values	Example
query_command	Alpha	Query operations command.	50	GENERATE_REPORT	
access_code	Alphanumeric	Merchant account Access Code.	20		zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	FORT Merchant Account identifier.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique reference for a specific request.	40		XYZ9239-yu898
from_date	Alphanumeric	Query parameter to filter from a specific date.	30		2017-01-01T14:36:55+03:00
to_date	Alphanumeric	Query parameter to filter the results till a specific date.	30		2017-06-28T14:36:55+03:00
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
language	Alpha	The checkout page and messages language.	2	- en - ar	
response_format	Alpha	The FORT response format; weather its JSON or XML. *The default response format is "JSON".	4	- JSON - XML	
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		56000
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses)	

**Generate Report “JSON” Response Example!**

```
{
  "query_command": "GENERATE_REPORT",
  "access_code": "zx0IPmPy5jp1vAz8Kpg7",
  "merchant_identifier": "CychZxVj",
  "merchant_reference": "XYZ9239-yu898",
  "from_date": "2017-08-03T00:00:01+03:00",
  "to_date": "2017-08-03T23:59:59+03:00",
  "response_format": "JSON",
  "signature":
    "521d32010a9988de86e16b49f6303985508d5f244784474da1184d457b53ded2",
  "language": "en",
  "response_message": "Success",
  "response_code": "56000",
  "status": "56"
}
```

**Generate Report “XML” Response Example!**

```
<response>
  <response_code>56000</response_code>
  <from_date>2017-08-03T00:00:01+03:00</from_date>

  <signature>521d32010a9988de86e16b49f6303985508d5f244784474da1184d457b53ded2</signature>
  <merchant_identifier>CychZxVj</merchant_identifier>
  <access_code>zx0IPmPy5jp1vAz8Kpg7</access_code>
  <language>en</language>
  <response_format>XML</response_format>
  <response_message>Success</response_message>
  <to_date>2017-08-03T23:59:59+03:00</to_date>
```

```

<merchant_reference>XYZ9239-yu898</merchant_reference>

<query_command>GENERATE_REPORT</query_command>

<status>56</status>

</response>

```

19.6 Download Report - Request

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

Download Report Request Parameters							
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/ Expected Values	Example
query_command	Alpha	Yes	Query operations command.	50	–	DOWNLOAD_REPORT	
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 number. *Please, use the same merchant reference you used in the "generate report" request.	40	- – .		XYZ9239-yu898
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a



Download Report Request Example!

```
{
```

```
"query_command":"DOWNLOAD_REPORT",  
"access_code":"zx0IPmPy5jp1vAz8Kpg7",  
"merchant_identifier":"CycHZxVj",  
"merchant_reference":"XYZ9239-yu898",  
"signature":  
"845df6d678cb7f9e85421f0680ebcfbb1f2927ea31c4b571c784e3  
a3c66be2df"  
}
```

19.7 Download Report – Response



NOTE!

In case the generation of the report is not complete, the merchant will receive a message indicating that the generation of the report is still in progress with the below response parameters. The Merchant can attempt to download report later on.

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

Download Report Response Parameters					
Parameter Name	Type	Description	Length	Possible/ Expected Values	Example
query_command	Alpha	Query operations command.	50	DOWNLOAD_REPORT	
access_code	Alphanumeric	Access code.	20		zx0IPmPy5jp 1vAz8Kpg7
merchant_identifier	Alphanumeric	The ID of the Merchant.	20		CycHZxVj
merchant_reference	Alphanumeric	The Merchant's unique reference number.	40		XYZ9239- yu898
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212 ed933c9a5d5 dffa31661acf 2c827a
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		56000
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses)	



Download Report "JSON" Response Example!

```
[
  {
```

```
    "data_count": 2
  },
  [
    {
      "order_description": "iphone",
      "customer_ip": "2001:0002:6c::430",
      "eci": "ECOMMERCE",
      "merchant_reference": "reference1",
      "currency": "USD",
      "geolocation_ip": "192.168.33.18",
      "amount": "1000",
      "payment_option": "VISA",
      "fort_id": "150701416400054912",
      "customer_email": "dateeq@payfort.com",
      "customer_name": "دعاء",
      "operation": "AUTHORIZATION",
    },
    {
      "order_description": "iphone",
      "customer_ip": "2001:0002:6c::430",
      "eci": "ECOMMERCE",
      "merchant_reference": "reference2",
      "currency": "USD",
      "geolocation_ip": "192.168.33.18",
      "amount": "1000",
      "payment_option": "VISA",
      "fort_id": "150701415400054909",
      "customer_email": "dateeq@payfort.com",
      "customer_name": "دعاء",
      "operation": "AUTHORIZATION",
    }
  ]
}
```

```

    }
  ]
]

```



Download Report “XML” Response Example!

```
<?xml version='1.0' encoding='UTF-8'?>
```

```
<report>
```

```
  <metadata>
```

```
    <data_count>2</data_count>
```

```
  </metadata>
```

```
  <transactions>
```

```
    <transaction>
```

```
      <order_description>iphone</order_description>
```

```
      <customer_ip>2001:0002:6c::430</customer_ip>
```

```
      <eci>ECOMMERCE</eci>
```

```
      <merchant_reference>reference1</merchant_reference>
```

```
      <currency>USD</currency>
```

```
      <geolocation_ip>192.168.33.18</geolocation_ip>
```

```
      <amount>1000</amount>
```

```
      <payment_option>VISA</payment_option>
```

```
      <fort_id>150701416400054912</fort_id>
```

```
      <customer_email>customer@payfort.com</customer_email>
```

```
      <customer_name>John Smith</customer_name>
```

```
      <operation>AUTHORIZATION</operation>
```

```
    </transaction>
```

```
    <transaction>
```

```
      <order_description>iphone</order_description>
```

```
      <customer_ip>2001:0002:6c::431</customer_ip>
```

```
      <eci>ECOMMERCE</eci>
```

```
      <merchant_reference>reference2</merchant_reference>
```

```
<currency>USD</currency>

<geolocation_ip>192.168.33.18</geolocation_ip>

<amount>1000</amount>

<payment_option>VISA</payment_option>

<fort_id>150701415400054909</fort_id>

<customer_email>customer@payfort.com</customer_email>

<customer_name>John Smith</customer_name>

<operation>AUTHORIZATION</operation>

</transaction>

</transactions>

</report>
```

19.8 Reporting Pagination API

This service allows Merchants to specify the number of pages via FORT API. The Merchant will receive back specified pages based on the search criteria. The Merchant is allowed to search for 20,000 transactions per each request.

19.8.1 Report Pagination API URLs

Test Environment URL
https://sbpaymentservices.payfort.com/FortAPI/reportingApi
Production Environment URL
https://paymentservices.payfort.com/FortAPI/reportingApi

19.8.2 Parameters Submission Type

REST POST request using JSON.

19.8.3 How it works

1. The Merchant submits “Get Report” request. This request allows the Merchant to specify the number of pages via FORT API; where he sends the page size (the number of records he wants to retrieve in each request) and the start index (the record to start retrieve records from).
2. The FORT returns the “Get Report” response including the records the Merchant requested for.

19.8.4 Get Report – Request

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

Get Report Request Parameters							
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/ Expected Values	Example
query_command	Alpha	Yes	Query operations command.	50	–	GET_REPORT	
access_code	Alphanumeric	Yes	Merchant account Access Code.	20			zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	Yes	FORT Merchant Account identifier.	20			CycHZxVj
from_date	Alphanumeric	Yes	Query parameter to filter from a specific date.	30	+ - :		2017-01-01T14:36:55+03:00
to_date	Alphanumeric	Yes	Query parameter to filter the results till a specific date.	30	+ - :		2017-06-28T14:36:55+03:00
columns	List	Yes	The columns the merchant wants to include in the generated report.	110	–	(Please refer to section column parameters).	
page_size	Numeric	Yes	The number of records each request. *The maximum page size is 50 records per page.	2			10
start_index	Numeric	Yes	From where you want to start getting the records.	5			19000
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
language	Alpha	No	The checkout page and messages language.	2		- en - ar	
response_format	Alpha	No	The FORT response format; whether its JSON or XML. *The	4		- JSON - XML	

			default response format is "JSON".				
filters	List	No	The filters the merchant wants to use to filter the generated report results.	10		(Please refer to section filters Parameters).	

19.8.4.1 Columns Parameter

The following table contains all the possible values you want to revert in your response, you can choose any of them:

The values of columns parameter	
Value	Description
fort_id	The order's unique reference returned by our system.
merchant_reference	The Merchant's unique order number.
authorization_code	The authorization code returned from the 3 rd party responsible for processing the transaction.
customer_name	The Customer's name.
customer_ip	The customer's IP address; where the Merchant sends as part of the authorization/ purchase request.
geolocation_ip	The card for the Customer's computer.
customer_email	The Customer's email; where the Merchant sends with the authorization/purchase request.

acquirer_name	The name of the Acquirer.
payment_option	The payment option use to process the authorization/ purchase request.
channel	The FORT channel used to receive the authorization/purchase request.
transaction_date	The date of the transaction.
card_number	The card number used to process the transaction.
expiry_date	The card's expiry date.
card_holder_name	The cardholder's name.
amount	The transaction's amount.
currency	The currency of the transaction's amount in ISO code 3.
card_bin	The bank identification number (BIN); which is the initial four to eight numbers that appear on a credit card.
eci	The E-commerce indicator associated with the transactions authorization/ purchase request.
operation	The operation type (authorization, purchase, void authorization, capture, and refund).
token_name	The Token associated with the card used to process the transaction.
3ds_indicator	This indicator will hold the value "yes" in case 3-D Secure check was performed on a specific transaction. Otherwise, it will holds the value "no".

fraud_indicator	This indicator will hold the value “yes” in case fraud check was performed on a specific transaction. Otherwise, it will holds the value “no”.
installments_indicator	This indicator will hold the value “yes” in case installments service was applied on a specific transaction. Otherwise, it will holds the value “no”.
status	A two-digit numeric value that indicates the status of the transaction.
response_code	Carries the value of our system's response.
response_message	The Message description of the response code. It returns according to the request language.
third_party_message	The message retrieved from the third party.
third_party_code	The code retrieved from the third party.
order_date	The creation date of the order.
order_description	The description of the order provided by the merchant.
acquirer_mid	The Acquirer Merchant identifier.
acquirer_response_code	The code the Acquirer returns.
sadad_olp	SADAD Online Payment ID Alias. The value that SADAD's Customer provides to process SADAD order.
sadad_transaction_id	The identifier returned by SADAD for a specific SADAD transaction.
payment_link_id	Payment link unique identifier.

invoice_id	The identification for a specific subscription service.
digital_wallet	The buyer's digital wallet.

19.8.4.2 Filters Parameter

Include the following parameters into “filters” parameter you will send to PayFort:

filters parameters						
Parameter Name	Type	Description	Length	Special Characters	Possible/ Expected Values	Example
key	Alphanumeric	The name of the column you want to filter. You can choose more than key.	110	# , \, / . - _ @ : Space	(Please refer to section key Parameters).	
value	Alphanumeric	The value of the key you want to revert in your response. It depends on the key you have chosen to revert.				

19.8.4.3 Key Parameter

The following table contains all the possible values of the “key” parameter, you can choose any of them:

The values of key parameter		
Value	Description	Possible/ Expected Values
fort_id	The order's unique reference returned by our system.	
merchant_reference	The Merchant's unique order number.	

authorization_code	The authorization code returned from the 3 rd party responsible for processing the transaction.	
customer_name	The Customer's name.	
customer_ip	The customer's IP address; where the Merchant sends as part of the authorization/ purchase request.	
geolocation_ip	The card for the Customer's computer.	
customer_email	The Customer's email; where the Merchant sends with the authorization/purchase request.	
acquirer_name	The name of the Acquirer.	
payment_option	The payment option use to process the authorization/ purchase request.	<ul style="list-style-type: none"> - MASTERCARD - VISA - AMEX - SADAD - NAPS - KNET - MADA - MEEZA
channel	The FORT channel used to receive the authorization/purchase request.	<ul style="list-style-type: none"> - MOTO - Trusted - Merchant Page - Redirection - eTerminal - Recurring
transaction_date	The date of the transaction.	
card_number	The card number used to process the transaction.	
expiry_date	The card's expiry date.	

card_holder_name	The cardholder's name.	
amount	The transaction's amount.	
currency	The currency of the transaction's amount in ISO code 3.	
card_bin	The bank identification number (BIN); which is the initial four to eight numbers that appear on a credit card.	
eci	The E-commerce indicator associated with the transactions authorization/ purchase request.	- ECOMMERCE - RECURRING - MOTO
operation	The operation type (authorization, purchase, void authorization, capture, and refund)	
token_name	The Token associated with the card used to process the transaction.	
3ds_indicator	This indicator will hold the value "yes" in case 3-D Secure check was performed on a specific transaction. Otherwise, it will holds the value "no".	- YES - NO
fraud_indicator	This indicator will hold the value "yes" in case fraud check was performed on a specific transaction. Otherwise, it will holds the value "no".	- YES - NO
installments_indicator	This indicator will hold the value "yes" in case installments service was applied on a specific transaction. Otherwise, it will holds the value "no".	- YES - NO

status	A two-digit numeric value that indicates the status of the transaction.	
response_code	Carries the value of our system's response.	
response_message	The Message description of the response code. It returns according to the request language.	
third_party_message	The message retrieved from the third party.	
order_date	The creation date of the order.	
order_description	The description of the order provided by the merchant.	
acquirer_mid	The Acquirer Merchant identifier.	
acquirer_response_code	The code the Acquirer returns.	
sadad_olp	SADAD Online Payment ID Alias. The value that SADAD's Customer provides to process SADAD order.	
sadad_transaction_id	The identifier returned by SADAD for a specific SADAD transaction.	
payment_link_id	Payment link unique identifier.	
invoice_id	The identification for a specific subscription service.	
digital_wallet	The buyer's digital wallet.	<ul style="list-style-type: none"> - MASTERPASS - VISA_CHECKOUT - APPLE_PAY

**Get Report Request Example!**

```
{
  "query_command": "GET_REPORT",
  "access_code": "zx0IPmPy5jp1vAz8Kpg7",
  "merchant_identifier": "CychZxVj",
  "from_date": "2017-08-03T00:00:01+03:00",
  "to_date": "2017-08-03T23:59:59+03:00",
  "response_format": "JSON",
  "language": "en",
  "page_size": 10,
  "start_index": 19000,
  "columns": [
    "acquirer_name",
    "authorization_code",
    "amount",
    "card_number",
    "card_holder_name",
    "channel",
    "currency",
  ],
  "filters": [
    {
      "key": "currency",
      "value": "USD"
    },
    {
      "key": "payment_option",
      "value": "VISA"
    }
  ],
}
```



```

"signature":
"03a36d58acfc611f521528f2039a2228031d7ae4248d95181f2a24cfbe9f7865"

}

```

19.8.5 Get Report - Response

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

Get Report Response Parameters					
Parameter Name	Type	Description	Length	Possible/ Expected Values	Example
query_command	Alpha	Query operations command.	50	GET_REPORT	
access_code	Alphanumeric	Merchant account Access Code.	20		zx0IPmPy5jp1vAz8Kpg7
merchant_identifier	Alphanumeric	FORT Merchant Account identifier.	20		CycHZxVj
from_date	Alphanumeric	Query parameter to filter from a specific date.	30		2017-01-01T14:36:55+03:00
to_date	Alphanumeric	Query parameter to filter the results till a specific date.	30		2017-06-28T14:36:55+03:00
page_size	Numeric	The number of records in each page.	2		10
start_index	Numeric	From where you want to start getting the records.	5		19000
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
transactions	List	Records you have in your account. They are retrieved according to your request.	-		
transactions_count	Numeric	The total number of records you have in your account.	5		1913
language	Alpha	The checkout page and messages language.	2	- en - ar	
response_format	Alpha	The FORT response format; weather its JSON or XML. *The default response format is "JSON".	4	- JSON - XML	
response_message	Alphanumeric	Message description of the response code. It returns	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		56000
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses)	



Get Report "JSON" Response Example!

```
{
  "query_command": "GET_REPORT",
  "access_code": "zx0IPmPy5jp1vAz8Kpg7",
  "merchant_identifier": "CycHZxVj",
  "from_date": "2017-08-03T00:00:01+03:00",
  "to_date": "2017-08-03T23:59:59+03:00",
  "response_format": "JSON",
  "page_size": 10,
  "start_index": 19000,
  "transactions": [
    {
      "acquirer_name": "SABB-TEST",
      "authorization_code": "362477",
      "amount": "1000",
      "card_number": "400555*****0001",
      "card_holder_name": "John Smith",
      "channel": "Redirection",
      "currency": "USD",
    }
  ],
}
```

```

    "transactions_count": "1913",
    "signature":
    "521d32010a9988de86e16b49f6303985508d5f244784474da1184d457b53ded2",
    "language": "en",
    "response_message": "Success",
    "response_code": "56000",
    "status": "56"
  }

```



Get Report “XML” Response Example!

```

<response>

  <transactions_count>1913</transactions_count>

  <response_code>56000</response_code>

  <from_date>2017-08-03T00:00:01+03:00</from_date>

  <signature>521d32010a9988de86e16b49f6303985508d5f244784474da1184d45
  7b53ded2</signature>

  <merchant_identifier>CycHZxVj</merchant_identifier>

  <access_code>zx0IPmPy5jp1vAz8Kpg7</access_code>

  <language>en</language>

  <transactions_list>
    <transactions>
      <acquirer_name>SABB-TEST</acquirer_name>
      <authorization_code>362477</authorization_code>
      <amount>1000</amount>
      <card_number>400555*****0001</card_number>
      <card_holder_name>John Smith</card_holder_name>
      <channel>Redirection</channel>
      <currency>USD</currency>
    </transactions>
  </transactions_list>

```

```
<response_format>XML</response_format>

<response_message>Success</response_message>

<to_date>2017-08-03T23:59:59+03:00</to_date>

<start_index>19000</start_index>

<query_command>GET_REPORT</query_command>

<status>56</status>

<page_size>10</page_size>

</response>
```

**Download Report "JSON" Response Example!**

```
[
  {
    "data_count": 2
  },
  [
    {
      "order_description": "iphone",
      "customer_ip": "2001:0002:6c::430",
      "eci": "ECOMMERCE",
      "merchant_reference": "stg-duaa-03-10-17-D2",
      "currency": "USD",
      "geolocation_ip": "192.168.33.18",
      "amount": "1000",
      "payment_option": "VISA",
      "fort_id": "150701416400054912",
      "customer_email": "dateeq@payfort.com",
      "customer_name": "duaaدعاء",
      "operation": "AUTHORIZATION",
    },
  ],
]
```

```
{
  "order_description": "iphone",
  "customer_ip": "2001:0002:6c::430",
  "eci": "ECOMMERCE",
  "merchant_reference": "stg-duaa-03-10-17-D1",
  "currency": "USD",
  "geolocation_ip": "192.168.33.18",
  "amount": "1000",
  "payment_option": "VISA",
  "fort_id": "150701415400054909",
  "customer_email": "dateeq@payfort.com",
  "customer_name": "duaaدعاء",
  "operation": "AUTHORIZATION",
}
]
```

**Download Report “XML” Response Example!**

```
<?xml version='1.0' encoding='UTF-8'?>
<report>
  <metadata>
    <data_count>2</data_count>
  </metadata>
  <transactions>
    <transaction>
      <order_description>iphone</order_description>
      <customer_ip>2001:0002:6c::430</customer_ip>
      <eci>ECOMMERCE</eci>
      <merchant_reference>stg-duaa-03-10-17-
        D2</merchant_reference>
      <currency>USD</currency>
```

```
<geolocation_ip>192.168.33.18</geolocation_ip>

<amount>1000</amount>

<payment_option>VISA</payment_option>

<fort_id>150701416400054912</fort_id>

<customer_email>dateeq@payfort.com</customer_email>

<customer_name>duaa<دعاء></customer_name>

<operation>AUTHORIZATION</operation>

</transaction>

<transaction>

  <order_description>iphone</order_description>

  <customer_ip>2001:0002:6c::430</customer_ip>

  <eci>ECOMMERCE</eci>

  <merchant_reference>stg-duaa-03-10-17-
  D1</merchant_reference>

  <currency>USD</currency>

  <geolocation_ip>192.168.33.18</geolocation_ip>

  <amount>1000</amount>

  <payment_option>VISA</payment_option>

  <fort_id>150701415400054909</fort_id>

  <customer_email>dateeq@payfort.com</customer_email>

  <customer_name>duaa<دعاء></customer_name>

  <operation>AUTHORIZATION</operation>

</transaction>

</transactions>

</report>
```

20. 3-D Secure Services

3-D Secure services is an extra authentication service to authenticate the transaction by sending an OTP to the card holder from the issuer bank then the card holder have to authenticate the transaction by entering this OTP on the 3DS page. There are two types of 3-D Secure Services:

1. Check 3-D Secure & Flex 3-D Secure Services

- **Check 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.
- **Flex 3-D Secure Service:** This service gives you the flexibility to downgrade the 3-D Secure authentication in the transaction processing, based on a set of rules of your choice.

2. External MPI & Expose 3-D Secure services

- **External MPI Service:** This service allows the Fort to accept Purchase/ Authorization transactions in which the 3ds check was done externally using an external MPI.
- **Expose 3-D Secure Service:** This service allows the Merchant to use the 3-D Secure service in standalone request without the transaction purchase/Authorization flow; the user 3-D Secure Authentication can be done separately to get the user Authentication data and then the merchant can perform the charge request "Authorization/Purchase" in another request.

20.1 Check 3-D Secure & Flex 3-D Secure Services

20.1.1 Check 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.

20.1.2 Flex 3-D Secure Service

This service gives you the flexibility to downgrade the 3-D Secure authentication in the transaction processing, based on a set of rules of your choice. You can active/ deactivate this service under the "Flex Management" tab on your FORT Back-office.

20.1.2.1 How it works?

Click on the "Flex Management" tab on the main menu of your FORT Back-office. The following tabs should be displayed:

- **Service configuration:** to allow the merchant to activate/ deactivate the flex service after accept the terms and conditions.
- **List management:** allow the merchant to add multiple lists with different list types (email, IP, BIN, custom field and country) through "Add New List".
- **Rules Management:** to set the required rules for flex Management by merchant choice.
- **Audit log:** triggered all the actions done by the merchant in configurations the Flex service.

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

Flex 3-D Secure Service Request Parameters						
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Example
flex_value	Alphanumeric	No	This parameter reflects the custom field value you had configure in the Back-office. *Only English values are applicable.	255	— \ / - . # \$ % & @ * Space	Sale50



NOTE!

This Service is only available for eci = ECOMMERCE transactions (Redirection, Trusted, SDK, Merchant page and Merchant page 2.0) and credit cards (Visa, MasterCard and Amex).

20.2 External MPI & Expose 3-D Secure Services

20.2.1 External MPI 3-D Secure Service

This service allows the Fort to accept Purchase/ Authorization transactions in which the 3ds check was done externally using an external MPI.

20.2.1.1 External MPI 3-D Secure URLs

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

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

20.2.1.2 Parameters Submission Type

REST POST request using JSON.

20.2.1.3 External MPI 3-D Secure – Request

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

External MPI 3-D Secure Request Parameters							
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/ Expected Values	Example
command	Alpha	Yes	Command.	20		- AUTHORIZATION - PURCHASE	
access_code	Alpha numeric	Yes	Access code.	20			zx0IPmPy5j p1vAz8Kpg 7
merchant_identifier	Alpha numeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alpha numeric	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	Alpha numeric	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. *Only the MEEZA payment option takes 19 digits card number. *AMEX payment option takes 15 digits card number. *Otherwise, they take 16 digits card number.	19			4005550000000001
card_security_code	Numeric	---	The clear card security code collect on the merchant's checkout page. *It's ONLY mandatory in the ecommerce requests. * Only AMEX accepts card security code of 4 digits.	4			123
signature	Alpha numeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a

3ds_xid	Alpha numeric	Yes	Unique transaction Identification number to identify the 3DS transaction.	28			6kQGHEiZDU0H4+mUWF7zELHAcqM=
3ds_enrolled	Alpha	Yes	Parameter that hold if the card is enrolled or not.	1		- Y (Yes) - N (No)	
3ds_status	Alpha	No	The status of the 3ds check just like 3-DSEnrolled but this parameter is available after a check is completed.	1		- Y - N - U - A	
3ds_eci	Numeric	No	The eCommerce indicator returned from the MPI.	2		- 05 - 06	
ver_token	Alpha numeric	No	Verification token generated by the issuer to prove that the cardholders has been authenticated.	28			glGCg4SFh oeliYqLjI2Oj 5CRkpM=
card_holder_name	Alpha	No	The card holder name.	50	. - ,		John Smith
token_name	Alpha numeric	No	The Token received from the Tokenization process.	100	. @ - _		Op9Vmp
payment_option	Alpha	No	Payment option.	10		- MASTERCARD - VISA - AMEX - MADA (for Purchase operations and eci Ecommerce only). Click here to download MADA branding document. - MEEZA (for Purchase operations and ECOMMERCE eci only)	

order_description	Alpha numeric	No	It holds the description of the order.	150	# , / . — - : \$ Space		iPhone 6-S
customer_ip	Alpha numeric	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	+ - () Space		00962797219966
settlement_reference	Alpha numeric	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	Alpha numeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be	999	. ; / —		JohnSmith

			displayed in any report.		- , , @		
merchant_extra1	Alpha numeric	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	Alpha numeric	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	Alpha numeric	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	Alpha numeric	No	Extra data sent by merchant. Will be received and sent back as received. Will not be displayed in any report.	250	. ; / — - , , @		JohnSmith
merchant_extra5	Alpha numeric	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	Alpha numeric	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.

20.2.1.4 External MPI 3-D Secure – Response

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

External MPI 3-D Secure 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 masked credit card's number. *Only the MEEZA payment option takes 19 digits card number. *AMEX payment option takes 15 digits card number. *Otherwise, they take 16 digits card number.	19		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 - MADA (for Purchase operations and eci Ecommerce only). Click here to download MADA branding document. - MEEZA (for Purchase operations and ECOMMERCE eci only)	
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:fe6: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
merchant_extra5	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	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.

20.2.2 Expose 3-D Secure Service

This service allows the Merchant to use the 3-D Secure service in standalone request without the transaction purchase/Authorization flow; the user 3-D Secure Authentication can be done separately to get the user Authentication data and then the merchant can perform the charge request "Authorization/Purchase" in another request.

20.2.2.1 3-D Service Enrollment Service Command URLs

Test Environment URL

<https://sbpaymentservices.PayFort.com/FortAPI/paymentApi>

Production Environment URL

<https://paymentservices.PayFort.com/FortAPI/paymentApi>

20.2.2.2 Parameters Submission Type

REST POST request using JSON.

20.2.2.3 3-D Service Enrollment Service Command – Request

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

3-D Service Enrollment - Request Parameters							
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/Expected Values	Example
service_command	Alpha	Yes	Command.	20	–	3DS_ENROLLMENT	

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	Checkout page and messages language	2		- en - ar	
card_number	Numeric	Yes	The clear credit card's number.	19			400555000000001
expiry_date	Numeric	Yes	The card's expiry date.	4			2105
merchant_3ds_url	Alphanumeric	Yes	The URL where the Merchant will be redirected to see the returned 3ds parameters.	300	- & ? = — . : / #		https://www.merchant.com
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a

**3-D Secure Enrollment Request Example!**

```
{
  "merchant_reference": "XYZ9239-yu898",
  "access_code": "zx0IPmPy5jp1vAz8Kpg7",
  "service_command": "3DS_ENROLLMENT",
  "language": "en",
  "merchant_identifier": "CycHZxVj",
  "currency": "AED",
  "amount": "10000",
  "card_number": "4005550000000001",
  "expiry_date": "2105",
  "merchant_3ds_url": "https://www.merchant.com",
  "signature": "a10048ca30a401d798f236bbdeb8b63a3a944449fafa9af2dee28eb6054dc07e"
}
```

20.2.2.4 3-D Secure Enrollment Service Command – Response

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

3-D Service Enrollment – Response Parameters					
Parameter Name	Type	Description	Length	Possible/ Expected Values	Example
service_command	Alpha	Command.	20	3DS_ENROLLMENT	
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. *Each currency has predefined allowed decimal points that should be taken into consideration when sending the amount.	10		10000
currency	Alpha	The currency of the transaction's amount in ISO code 3.	3		AED

language	Alpha	Checkout page and messages language	2	- en - ar	
card_number	Numeric	The masked credit card's number.	19		400555*****0001
expiry_date	Numeric	The card's expiry date.	4		2105
merchant_3ds_url	Alphanumeric	The URL where the Merchant will be redirected to see the returned 3ds parameters.	300		https://www.merchant.com
3ds_enrolled	Alpha	Parameter that hold if the card is enrolled or not.	1	- Y (Yes) - N (No) - U (Unspecified failure)	
threeds_id	Alphanumeric	The 3ds operations unique reference.	100		15360639710001061
signature	Alphanumeric	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200		7cad05f0212ed933c9a5d5dffa31661acf2c827a
3ds_xid	Alphanumeric	Unique transaction Identification number to identify the 3DS transaction.	28		6kQGHEiZDU0H4+mUWF7zELHAcqM=
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		44000
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	



3-D Secure Enrollment Response Example!

```
{
  "amount": "10000",
  "response_code": "44000",
  "card_number": "400555*****0001",
  "signature":
    "44d80139e9557661822c2e2d571983cc84a2de5a85e7499835dffd19f6192040",
  "merchant_identifier": "CycHZxVj",
  "access_code": "zx0IPmPy5jp1vAz8Kpg7",
```

```
"expiry_date": "2105",  
"merchant_3ds_url": "https://www.merchant.com",  
"language": "en",  
"threeds_id": "153606397100001061",  
"3ds_url":  
"https://migs.mastercard.com.au/vpcpay?paymentId=3499269050937443526&DOID=E  
870F0B65189A7128A86B7FC206F136E&o=pt&action=retry",  
"service_command": "3DS_ENROLLMENT",  
"response_message": "Success",  
"merchant_reference": "XYZ9239-yu898",  
"3ds_enrolled": "Y",  
"currency": "AED",  
"status": "44"  
}
```

- After you get back a 3Ds Enrollment response that includes the parameter “3ds_enrolled” of value “Y”; follow the below steps for the 3Ds Authentication request:
 1. In case you are on “MIGS” processor; Copy the returned 3ds_url in a new browser. Then, select all the returned parameters to be send in the next request “3Ds Authentication”.
 2. In case you are on “Cybersource”/ “MPGS” processor; two parameters will returns in the “3Ds Enrollment”; as below:
 - MD
 - PaRes

And you have to copy them in the “3Ds Authentication” request; as you will see in the 3Ds Authentication request example.

20.2.2.5 3-D Secure Authentication Service Command URLs

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

20.2.2.6 Parameters Submission Type

REST POST request using JSON.

20.2.2.7 3-D Secure Authentication Service Command – Request

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

3-D Secure Authentication - Request Parameters							
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/ Expected Values	Example
service_command	Alpha	Yes	Command.	20	–	3DS_AUTHENTICATION	
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
language	Alpha	Yes	Checkout page and messages language	2		- en - ar	
third_party_body	Alphanumeric	Yes	Combinations of 3ds parameters from the 3ds_enrollment.	6000	+ \ / : . – = ? % # & -		Check the examples below
signature	Alphanumeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a



3-D Secure Authentication Request on MIGS processor Example!

{

```

"access_code": "zx0IPmPy5jp1vAz8Kpg7",

"service_command": "3DS_AUTHENTICATION",

"language": "en",

"merchant_identifier": "bxgOlxlz",

"third_party_body": "vpc_3DSECI=05&vpc_3DSXID=6kQGHEiZDU0H4+mUWF7zELH
AcqM=&vpc_3DSenrolled=Y&vpc_3DSstatus=Y&vpc_Amount=1000&vpc_BatchNo=0
&vpc_Command=pay&vpc_Currency=USD&vpc_Locale=en_SA&vpc_MerchTxnRef=1
53615472100001289&vpc_Merchant=TEST81002&vpc_Message=Approved&vpc_Ord
erInfo=153615472100001289&vpc_SecureHash=5E22F556A03C3ED90065DDBDA51
577D4FAFF45BD858C3587D6589E69953C5615&vpc_SecureHashType=SHA256&vp
c_TransactionNo=0&vpc_TxnResponseCode=0&vpc_VerSecurityLevel=05&vpc_VerSt
atus=Y&vpc_VerToken=gIGCg4SFhoeliYqLj2Oj5CRkpM=&vpc_VerType=3DS&vpc_V
ersion=1",

"merchant_reference": "XYZ9239-yu898",

"signature": "5342edd1b7f34cd7b2be93487f1b80e86a2266f78e274c9bde6b2c1b1eca0f2
0"

}

```



3-D Secure Authentication Request on Cybersource/ MPGS Processors Example!

```

{
  "access_code": "zx0IPmPy5jp1vAz8Kpg7",

  "service_command": "3DS_AUTHENTICATION",

  "language": "en",

  "merchant_identifier": "CychZxVj",

  "third_party_body": "MD=153354476300012267&PaRes=eAHNV1nTokgW/SsdPY9GFYU
iUEEbKWyCkijllryxCcimLIL8+kk/q776urp6pmlmYmJ8MfNy8ua5mffkzWTNtlj4RiHfROvW
Ri3rZ/Ev2XRH78T+NuPoEmKpH9fswdGxO2avcdNm9XVmvimfyZZ7FsXDW3C1K+6Neu
HN07R1gtqSTMEi33tsmXcKMKaLOfow4pmcAKNftlY7PvgQ/900yluYxatvVR5VLtnpaOy
TI3sNH2Sstvt2Gv/MFiTwQb+V28JnGCxmI8+RtOf5kzX8g5i73Z2evTHSjrHhF7BsRiHy0si
rqJq/Cxphfo03uPjcdRxcVoDOL43max7+SufoUCxOkVheMEtVoQOMeg38jKmqc122XIn0
kt8C8k8vVmZ9vO7/p27bLY1xYb+vf7OIE2fLI4SmkdK5I7Uy8Kub9QvJfFlQR2DcLGYbbG
KUQK/b+NAKVSN1mXImu01E/MdwOLPalgX/ftmCUVmraJfxvLomr/+D3tuusXDBuG4fMw
/1w3CUaiBcJwBkOAqM2Sf6BNf46KI6U612uW96u6ykK/yCa/QyKA4y6to9/eJ/yZS9PACI
ZhMEf4hLx+ColF9elpAIaCQu6xn/t8zfvG9lcmeFEm33k3rf+pTX3iOcf72C9Ha9alz/Fzz1G
GCVkSt91/MsM37x89fPNn+0Ufr3cr8rrz54spi0q/HxPDLHtXzO35sUWb+Rr3QrLYB0pvfL
8t+Dv3F9DmMKeeT4CGvGqchQNGXWlguIFRMyWV5leAxxvGFmfjd2JbMltlFrPbC9rkqv
WYAWBPojRnnt76ZNhAbhLGyo8odXCgbpSjaWI9eb/PLHi77jZz7mD5XwUCLQR4aSMid
XJtvzhxGUGKPC8EWKxov4ldqtael86DrcSLxXEIYbnZc+FmGoxB/IM/u4scrjU4Uzgh+56/
ZZ4uPmy47o6xCKoaKwrsCz4Mw54E9DILubne1p6T3UAO6KHI6GEJBVCHIN4CwRC6F
vG5boyCAHZdoNgcSExASNATRgIB+YUao6NX2GpLbNCg/YmuENfbW9B3LI6yF27liGZ
JF6KM8gejIF5pSYTyik4Z7jj6ZG5v0nFHwN9I1ylitjouDnIYaFPIRCulcCsoDChbhPG3mm
414t114LvkyY9hMwHvxqk2xQDE80O7JLSyl1nfExN7YUySIEIL6bQ1QXMIzLni0BmVwB

```

```
VvVXBxEcrbBCul2dQ3wsotJudTJNfWfROSIBLbKogtJ+QGVzhgDf8Mfb5qqEc0EXOaBbA
Cw2GhB4LtPR0uuC/aC3gmXs74F1iwU705Uz4OTFauxp+jho5VImFuRcy2jumuFnVdwX
ylXFGnwrT/KQ52gu/L7J71U8XPf7gXdqRJ583NLjz7vNuDmG/hhd9dHjRTz6Ghx/5Xp
P2THCiNfnUOx872T2zmE5lpPMkMISJhck0TNQF4IZf2oTcOmswQoaXRGADrgfY+LA
W0wcACUhORJDBUlw1mX9qu9dTT4fq0fhLvfg/HSnztXO9RVUFuhShkwaBlbXHtReXT
pYtg8oDqXfwwMkgdH7VTwswohxutkiT0LprCT9xGtV1cCZsEzx1NhBfZEvi4CbraSSWMJi
UNVYtR/8gDkHeVvTok+tnDPgh/11qz30frnDa3OZ5fPEq1nsRwX9VFLmBUkqCHkkoZ9K
Kpj+h5K6gPBdUvbfSkrQTRBLAz7sTXGAZjjACUxwnxkG182690GZTDyE9i+/LomyCUB
6sPAJ2+proiDZpiiPoomOLwwocmL24d/0jLXoYoP2B3CWmYBP2Bbk5c0yXhwlmFrFjTo
Qda/Scj7WwkdLY37Nenw9zBpZ8ExlGY5t6+LKXVUvb7cbiRFJSIOR/jAS2PZ3W6bvUNM
DZPJIFoOq2xPp0dcsTWnadVY2bcKU2neK3hKC2Zvlh4zCJfvKDD3UuX+pm6z9SkVJN
zBWnOFkYM47Z3I6+qk3lwOS9Lx5Miz04nffcguliXj9P+vtjZW0KD3ko3/ltwtYd/lx1pf7m7d
0KdG7uSGdvhKDPFo1nJcRL2sDwVdPngHx4oOtdLM17LpmzkPV5WpYBJ8sBt8GvTK1
NHpMf8FF4wdxs1KdG4YMV7hXaoNpKKXfAz7cpUk9AyeAhGdxrzYth13lwYp5GnM1t7F
Dq9iDZHyuuPncmHx8x3k32eNc7GvqWdwuM0J2a/Jh0Bmkg611sCBgUVF2ULtrOGx21
QptT1LycIOhXhhv4fpuJikMG3VLT/NhX/Wp3gUzrUn6vTV9uFu0O9HfhXim/EYcvZ5odKw
qFKYo0iNNBR8qoksjikfFgWk1tKvfcRm0LBFInzA1ZFWNOwwsQWbdMWxBhyw1uFAiO
0bXILhHOj8ASUcievCEStd2iV39ZSoKm4NA8R/RdwrOLbbpu5xXqTCI8s0quYUiclr2m
iQkljmRe5rp5vw1niXSebXbOpQ6zNELQ7S8SlqpiXZsGksZ77Oi6v1Fn95nbQ1iTw1sxXet
4DDwtvxvTpSH60KZribmVOv+yi3C5FLPz4CuYu7mabUQpU0qeuicFiWz6jhT8B1xtOZfp
VQvZAsqsgE5/LkOkZDoDscZDU3eRDU6XnequqKdWau390XeTHcbVdz6uTcGfuGUjYe
OGCf5V/idNF3RDv1fHvHuj3p6y4VIHHQJAsiBM/1juZLQDVBIXBGI4YEzqDhcxKQg1vec
LLhNITPSki9vZ0K5S2oJFko78VpJZZ2Qk+HORNmq3QzOAI/k0vVGhM1P8ubqkmiReL
ObwxpYg440VtyjGKgr8xzdldrbcmvcJvGk0gL9FVWS1YURhWpiXZnz1LhLCFer+iOYJe
HuKCgebGk69jdFtdCkbpJC96XoX/UqXfLK87MPZ+L/5+Y0bPlq8PcdT60wP9nw6ulpY=",

"merchant_reference": "XYZ9239-yu898",

"signature": "714ae368b706be6db4073e75bd58e8feada61736edc7a07c0e59e3c9071ad
2d5"

}
```

20.2.2.8 3-D Secure Authentication Service Command – Response

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

3-D Secure Authentication – Response Parameters					
Parameter Name	Type	Description	Length	Possible/ Expected Values	Example
service_command	Alpha	Command.	20	3DS_AUTHENTICATION	
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	Checkout page and messages language	2	- en - ar	

threads_id	Alphanumeric	The 3ds operations unique reference.	100		153606397100001061
3ds_xid	Alphanumeric	Unique transaction Identification number to identify the 3DS transaction.	28		6kQGHEiZDU0H4+mUWF7zELHAcqM=
3ds_enrolled	Alpha	Parameter that hold if the card is enrolled or not.	1	- Y (Yes) - N (No)	
3ds_status	Alpha	The status of the 3ds check just like 3-DSEnrolled but this parameter is available after a check is completed.	1	- Y - N - U - A	
3ds_eci	Numeric	The eCommerce indicator returned from the MPI.	2	- 05 - 06	
ver_type	Alphanumeric	The type of verification used for 3DS.	3	- 3DS - SPA	
ver_token	Alphanumeric	Verification token generated by the issuer to prove that the cardholders has been authenticated.	28		glGCg4SFhoeliYqLjI2Oj5CRkpM=
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		44000
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	



3-D Secure Authentication Response on MIGS Processor Example!

```
{
  "response_code": "44000",
  "signature":
    "1f87e311965bf27cd497396420eb9c7abe5bfac14d17eb09904517ec86ee2caa",
  "merchant_identifier": "CycHZxVj",
  "ver_token": "glGCg4SFhoeliYqLjI2Oj5CRkpM=",
  "access_code": "zx0IPmPy5jp1vAz8Kpg7",
```

```
"language": "en",
"3ds_eci": "05",
"threeds_id": "153606397100001061",
"3ds_status": "Y",
"service_command": "3DS_AUTHENTICATION",
"response_message": "Success",
"3ds_xid": "6kQGHEiZDU0H4+mUWF7zELHAcqM=",
"merchant_reference": "XYZ9239-yu898",
"3ds_enrolled": "Y",
"status": "44"
}
```

**3-D Secure Authentication Response on Cybersource/ MPGS Processors Example!**

```
{
  "response_code": "44000",
  "signature":
    "1f87e311965bf27cd497396420eb9c7abe5bfac14d17eb09904517ec86ee2caa",
  "merchant_identifier": "CycHZxVj",
  "ver_token": "glGCg4SFhoeliYqLjI2Oj5CRkpM=",
  "access_code": "zx0IPmPy5jp1vAz8Kpg7",
  "language": "en",
  "3ds_eci": "05",
  "threeds_id": "153606397100001061",
  "3ds_status": "Y",
  "service_command": "3DS_AUTHENTICATION",
  "response_message": "Success",
  "3ds_xid": "6kQGHEiZDU0H4+mUWF7zELHAcqM=",
  "merchant_reference": "XYZ9239-yu898",
  "3ds_enrolled": "Y",
  "status": "44"
}
```

20.3 FORT Transaction Feedback

20.3.1 Overview

The FORT transaction Feedback system provides Merchants with two types of configurable notifications:

1. Direct Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction is processed.
2. Notification Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction status is updated.

20.3.2 Registering Transaction Feedback URLs

1. Log in to your back-office account.
2. Select the active channel under Integration Settings → Technical Settings.
3. Enter your Direct Transaction Feedback URL and Notification Transaction Feedback URL.
4. Click "Save Changes" button.

20.3.3 Transaction Feedback Implementation

The Transaction Feedback URL is required to send the Merchant the response parameters after processing the transaction on the Merchant's server side.

For the Direct Transaction Feedback, it sends the immediate payments response in all cases, like if the user closed the browser before getting redirected to the Redirection URL due to a drop in the internet connection or he closed the browser during the Redirection, the Merchant will create an endpoint which accepts the notifications received from PayFort side as POST Method.

For the Notification Transaction Feedback, it's required to provide the Merchant the transaction final status update whenever received, like if the Transaction was pending due to the unavailability for any party, the final update will be pushed to the Notification Feedback URL as POST Method.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10 times with 10 seconds in between until it's properly acknowledged.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10, times with 10 seconds in between until it's properly acknowledged.



NOTE!

- You can check the Direct and Notification Feedback logs in your PayFort back-office Account to check the details related to the submission like the Transaction Feedback URL which was triggered, The response which our FORT system pushed, The response Code and Status returned from your Transaction Feedback URL.

- The specifics of the data will differ based upon the financial operation that has been processed. Please refer to the FORT integration guide for more details.
- If you want to change the submission type to JSON or XML, you can contact us on integration@payfort.com.
- If you want to change the grace period or the time interval between the retries please contact us on integration@payfort.com.

21. Verify Service Command

Verify API provides several methods that you can use to determine if a particular card account is valid and in good standing. The ability to pre-validate a credit card (Visa, MasterCard and Amex) increases the probability of a successful, seamless transaction flow and more valid card registration.

21.1 Before Starting

Before start integrating this service you need to know the below:

- This service command is applicable on two channels only; where you have to configure the channel you want to add this service to it from the FORT back-office:
 1. Merchant page.
 2. Trusted.
- This service command is only applicable on “MOTO” E-commerce indicator.
- You need to add the amount to be Authorized/ Captured from the customer for the verification.
- This Authorized/ Captured amount will be Voided/ Refunded after checking the card validity.
- The verification transactions will be recorded under one report “Card Verification Report” in the back-office.

21.2 Verify Service Command

21.2.1 Verify Service Command on Trusted URLs

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

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

21.2.2 Parameters Submission Type

REST POST request using JSON.

21.2.3 Verify Service Command on Trusted – Request

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

Verify Service Command on Trusted Request Parameters							
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/ Expected Values	Example
service_command	Alpha	Yes	Command.	20	–	VERIFY_CARD	
access_code	Alpha numeric	Yes	Access code.	20			zx0IPmPy5j p1vAz8Kpg 7

merchant_identifier	Alpha numeric	Yes	The ID of the Merchant.	20			CycHZxVj
merchant_reference	Alpha numeric	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	
expiry_date	Numeric	Yes	The card's expiry date.	4			2105
card_number	Numeric	Yes	The clear credit card's number.	16			4005550000000001
signature	Alpha numeric	Yes	A string hashed using the Secure Hash Algorithm. (Please refer to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
settlement_reference	Alpha numeric	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	- — .		example

**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.

**Verify Service Command on Trusted Request!**

```
{  
  "card_number":"4005550000000001",  
  "expiry_date":"2105",  
  "service_command":"VERIFY_CARD",  
  "settlement_reference":"example",  
  "merchant_reference":"XYZ9239-yu898",  
  "currency":"AED",  
  "access_code":"zx0IPmPy5jp1vAz",  
  "merchant_identifier":"CycHZxVj",  
  "language":"en",  
  "signature":"eef26521d64ffd436b056ab9da0267334aa886acfe392f803e6705d0a5b0fc7a"  
}
```

21.2.4 Verify Service Command on Trusted – Response

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

Verify Service Command on Trusted Response Parameters					
Parameter Name	Type	Description	Length	Possible/ Expected Values	Example
service_command	Alpha	Command.	20	VERIFY_CARD	
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
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	
expiry_date	Numeric	The card's expiry date.	4		2105
card_number	Numeric	The masked 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
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		80000
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	
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		example

**NOTE!**

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

**Verify Service Command on Trusted Response!**

```
{
  "response_code": "80000",
  "card_number": "400555*****0001",
  "expiry_date": "2105",
  "service_command": "VERIFY_CARD",
  "settlement_reference": "example",
  "merchant_reference": "XYZ9239-yu898",
  "currency": "AED",
  "access_code": "zx0IPmPy5jp1vAz",
  "merchant_identifier": "CycHZxVj",
  "response_message": "Success",
  "language": "en",
  "status": "80",
  "signature": "eef26521d64ffd436b056ab9da0267334aa886acfe392f803e6705d0a5b0fc7a"
}
```

21.3 Check Status for Verify Service Command

This feature allows the Merchants to easily check the actual status of the “Verify card command” results through this API.

21.3.1 Check Status for Verify Service Command URLs

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

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

21.3.2 Parameters Submission Type

REST POST request using JSON.

21.3.3 Check Status for Verify Service Command – Request

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

Check Status for Verify Service Command Request Parameters							
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Possible/Expected Values	Example
query_command	Alpha	Yes	Query operations command.	50	–	CHECK_VERIFY_CARD_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 of the verify service command.	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 to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a



Check Status on Verify Service Command Request!

```
{
  "query_command":"CHECK_VERIFY_CARD_STATUS",
  "merchant_reference":"XYZ9239-yu898",
  "access_code":"zx0IPmPy5jp1vAz",
  "merchant_identifier":"CycHZxVj",
  "language":"en",
  "signature":"f93c586997906bac21e8d046407c3fbed6b6820affcb7345353487287cc7c03a"
}
```

21.3.4 Check Status for Verify Service Command – Response

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

Check Status for Verify Service Command Response Parameters					
Parameter Name	Type	Description	Length	Possible/ Expected Values	Example
query_command	Alpha	Query operations command.	50	CHECK_VERIFY_CARD_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 of the verify service command.	40		XYZ2939-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
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		12000
status	Numeric	A two-digit numeric value that indicates the status of the transaction.	2	(Please refer to section Statuses).	
transaction_code	Numeric	The code returned for the last verify operation performed on a specific card. *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_status	Numeric	The status of the last verify operation performed on a specific card.	2	(Please refer to section Statuses).	

transaction_message	Alphanumeric	The message returned for the last verify operation performed on a specific card.	150		success
---------------------	--------------	--	-----	--	---------

**NOTE!**

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

**Check Status for Verify Service Command Response!**

```
{
  "transaction_code":"80000",
  "response_code":"12000",
  "transaction_status":"80",
  "signature":"00c1ea64b7de291f7d5548630bbfbf329bd3fd963bf55c35fefc84d982da193e",
  "merchant_identifier":"CycHZxVj",
  "access_code":"zx0IPmPy5jp1vAz8Kpg7",
  "transaction_message":"Success",
  "language":"en",
  "response_message":"Success",
  "merchant_reference":"Verify31",
  "query_command":"CHECK_VERIFY_CARD_STATUS",
  "status":"12"
}
```

21.4 FORT Transaction Feedback

21.4.1 Overview

The FORT transaction Feedback system provides Merchants with two types of configurable notifications:

3. Direct Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction is processed.
4. Notification Transaction Feedback, PayFort will send Merchants HTTPs notifications that inform Merchants of the transaction's final status whenever a transaction status is updated.

21.4.2 Registering Transaction Feedback URLs

5. Log in to your back-office account.
6. Select the active channel under Integration Settings → Technical Settings.
7. Enter your Direct Transaction Feedback URL and Notification Transaction Feedback URL.
8. Click “Save Changes” button.

21.4.3 Transaction Feedback Implementation

The Transaction Feedback URL is required to send the Merchant the response parameters after processing the transaction on the Merchant’s server side.

For the Direct Transaction Feedback, it sends the immediate payments response in all cases, like if the user closed the browser before getting redirected to the Redirection URL due to a drop in the internet connection or he closed the browser during the Redirection, the Merchant will create an endpoint which accepts the notifications received from PayFort side as POST Method.

For the Notification Transaction Feedback, it’s required to provide the Merchant the transaction final status update whenever received, like if the Transaction was pending due to the unavailability for any party, the final update will be pushed to the Notification Feedback URL as POST Method.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10 times with 10 seconds in between until it’s properly acknowledged.

Beyond whatever your Transaction Feedback URL does with the data received, it must also return a 2xx (like 200, 201, etc...) or 302 HTTP status code to update the FORT system that the notification was received. If your URL does not return 2xx or 302, the FORT will continue to retry the notification for 10, times with 10 seconds in between until it’s properly acknowledged.



NOTE!

- You can check the Direct and Notification Feedback logs in your PayFort back-office Account to check the details related to the submission like the Transaction Feedback URL which was triggered, The response which our FORT system pushed, The response Code and Status returned from your Transaction Feedback URL.
- The specifics of the data will differ based upon the financial operation that has been processed. Please refer to the FORT integration guide for more details.
- If you want to change the submission type to JSON or XML, you can contact us on integration@payfort.com.
- If you want to change the grace period or the time interval between the retries please contact us on integration@payfort.com.

22. Other PayFort Services

22.1 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.

22.1.1 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.

22.1.2 Create New Token Service

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

22.1.2.1 FORT Tokenization Service URLs

Test Environment URL

<https://sbcheckout.PayFort.com/FortAPI/paymentPage>

Production Environment URL

<https://checkout.PayFort.com/FortAPI/paymentPage>
22.1.2.2 Parameters Submission Type

HTTPs Form Post Request.

22.1.2.3 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. *Only the MEEZA payment option takes 19 digits card number. *AMEX payment option takes 15 digits card number. *Otherwise, they take 16 digits card number.	19			4005550000000001
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			7cad05f0212ed933c9a5d5dfa31661acf2c827a
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

22.1.2.4 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 masked credit card's number. *Only the MEEZA payment option takes 19 digits card number. *AMEX payment option takes 15 digits card number. *Otherwise, they take 16 digits card number.	19		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.

22.1.3 Update Token Service

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

22.1.3.1 Update Token Service URLs

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

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

22.1.3.2 Parameters Submission Type

REST POST request using JSON.

22.1.3.3 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	200			7cad05f0212ed933c9a5d5dffa3166

			Signature for more details).				1acf2c827a
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

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 masked credit card's number. *Only the MEEZA payment option takes 19 digits card number.	19		400555*****0001

		*AMEX payment option takes 15 digits card number. *Otherwise, they take 16 digits card number.			
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. *If the card number for MEEZA was of length 19 then the card bin will be the first 8 digits.	8		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.

22.2 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.

22.3 Flex 3-D Secure Service

This service gives you the flexibility to downgrade the 3-D Secure authentication in the transaction processing, based on a set of rules of your choice. You can active/ deactivate this service under the "Flex Management" tab on your FORT Back-office.

22.3.1 How it works?

Click on the "Flex Management" tab on the main menu of your FORT Back-office. The following tabs should be displayed:

- **Service configuration:** to allow the merchant to activate/ deactivate the flex service after accept the terms and conditions.
- **List management:** allow the merchant to add multiple lists with different list types (email, IP, BIN, custom field and country) through "Add New List".
- **Rules Management:** to set the required rules for flex Management by merchant choice.
- **Audit log:** triggered all the actions done by the merchant in configurations the Flex service.

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

Flex 3-D Secure Service Request Parameters						
Parameter Name	Type	Mandatory	Description	Length	Special Characters	Example
flex_value	Alphan umeric	No	This parameter reflects the custom field value you had	255	– \\	Sale50

			configure in the Back-office. *Only English values are applicable.		/	
					-	
					.	
					#	
					\$	
					%	
					&	
					@	
					*	
					Space	

**NOTE!**

This Service is only available for eci = ECOMMERCE transactions (Redirection, Trusted, SDK, Merchant page and Merchant page 2.0) and credit cards (Visa, MasterCard and Amex).

22.4 Currency Exchange Service

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

**NOTE!**

Before start implementing this service please make sure to contact support@payfort.com to activate it in your account.

22.4.1 Currency Exchange URLs

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

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

22.4.2 Parameters Submission Type

REST POST request using JSON.

22.4.3 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 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.

22.4.4 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		zx0lPmPy5jp1vAz8Kpg7
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		7cad05f0212ed933c9a5d5dfa31661acf2c827a
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	5		20064

		response status , and the last 3 digits represent the response message .			
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_currency	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.

23. In Common

23.1 Query Operations

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

23.1.1 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.

23.1.1.1 URLs

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

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

23.1.1.2 Parameters Submission Type

REST POST request using JSON.

23.1.1.3 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", 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 to section Signature for more details).	200			7cad05f0212ed933c9a5d5dffa31661acf2c827a
fort_id	Numeric	No	The order's unique reference returned by our system.	20			149295435400084008
return_third_party_response_codes	Alpha	No	This parameter allows you to return the 3rd party response codes in the transaction's response.	100		- YES - NO	

**NOTE!**

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

23.1.1.4 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 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).	
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
authorization_code	Alphanumeric	Authorization Code returned from the 3rd party.	100		017201
processor_response_code	Alphanumeric	Response code returns from the Processor.	100		APPROVED
acquirer_response_code	Alphanumeric	Response code returns from the Acquirer.	10		00

**NOTE!**

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

23.2 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:

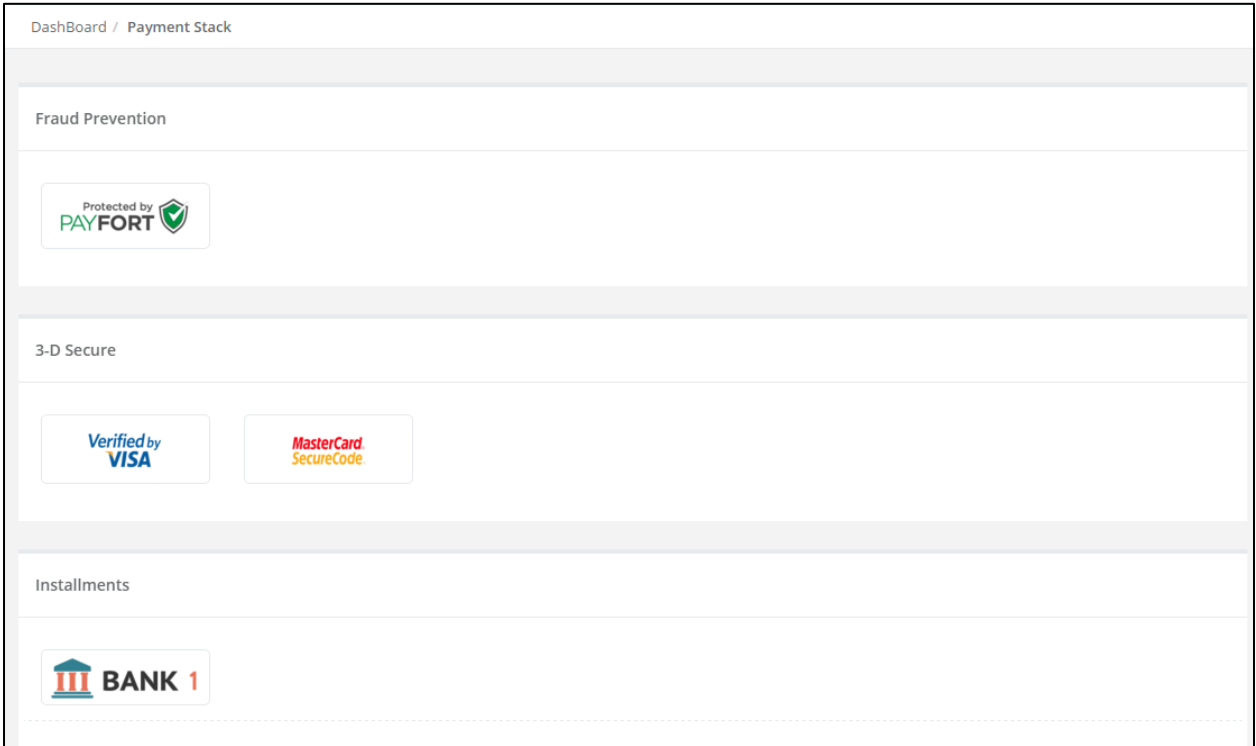


Figure 5: Services - Payment Stack

23.2.1 Fraud Prevention

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

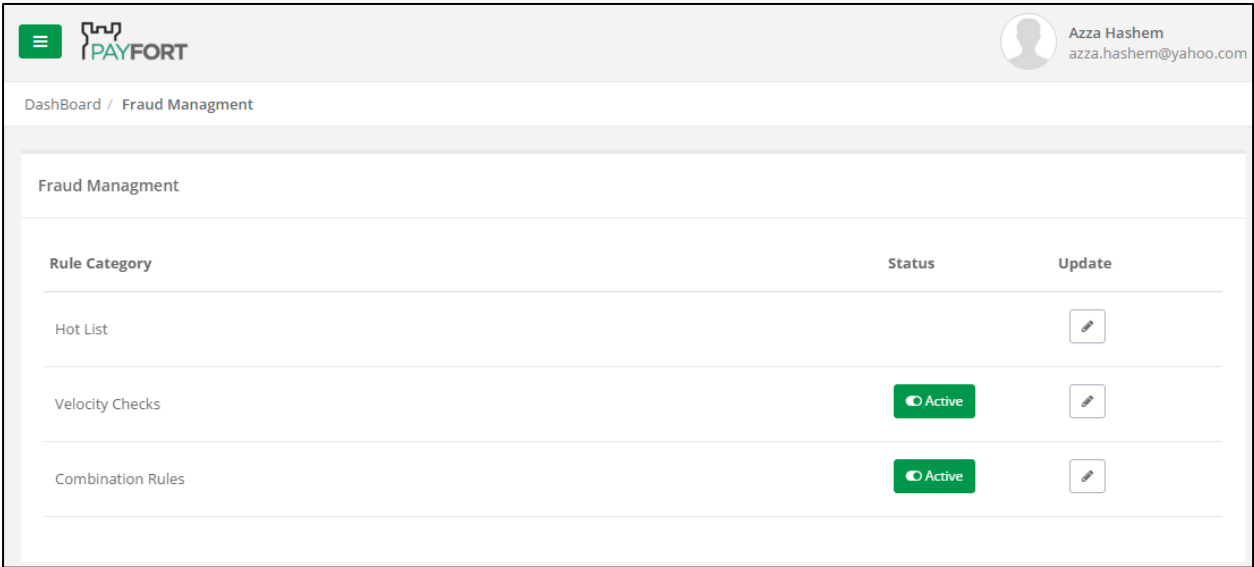


Figure 6: Services – Payment Stack – Fraud Prevention – Fraud Management

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.

23.2.2 3-D Secure

This service is activated by default for all Merchants.

23.2.3 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.

23.2.4 Tokenization

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

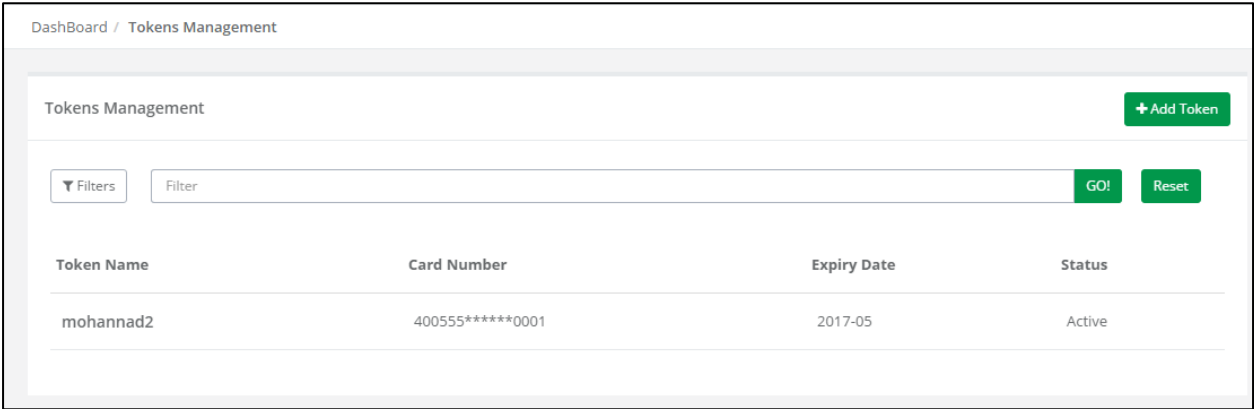


Figure 8: Services – Token Management

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

The screenshot shows the 'Edit Token' page in the PayFort dashboard. The breadcrumb trail at the top is 'DashBoard / Tokens Management / Edit Token'. The form contains the following fields:

- Merchant Token Name ***: A text input field containing 'mohannad2'.
- Expiry Date ***: A date picker field showing '2017-05'.
- Status**: A dropdown menu currently set to 'Active'. This field is highlighted with a red rectangular box.

At the bottom of the form, there are two buttons: 'Save Changes' (in green) and 'Cancel' (in light gray).

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

23.2.5 Batch service

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

You can check the [Batch Service](#) document to know more about this service.

23.3 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.

23.3.1 Message Digest

Name	Values	Description
SHA Type	<ul style="list-style-type: none"> * SHA-256 * SHA-512 	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.

23.3.2 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.

23.3.3 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_referen  
ce=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 = zx0IPmPy5jp1vAzBPIWT

- 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=zx0IPmPy5jp1vAzBPIWTcolumns=[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.

23.4 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](#)).

23.4.1 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.
44	3ds success.
45	3ds failed.
46	Bill Creation Success.
47	Bill Creation Failed.
48	Generating Invoice Payment Link Success.
49	Generating Invoice Payment Link Failed.
50	Batch file upload successfully.
51	Upload batch file failed.
52	Token Created Successfully.
53	Token Creation Failed.
58	Token Updated Successfully.
59	Token Updated Failed.
62	Get Installment Plans Successfully.
63	Get Installment plans Failed.
70	Get batch results successfully.
71	Get batch results failed.
72	Batch processing success.
73	Batch processing failed.
74	Bank transfer failed.
75	Bank transfer successfully.
76	Batch validation successfully.
77	Batch validation failed.
80	Credit card verified successfully.
81	Failed to verify credit card.

23.4.2 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.
104	No plans valid for request.
105	Invalid bank code.
106	Inactive bank.
107	Invalid transfer_date.
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.
136	The Batch file validation is failed.
137	Invalid Batch file execution date.
138	The Batch file still under validation.
140	The Batch file still under processing.
141	The Batch reference does not exist.
142	The Batch file header is invalid.
144	Invalid Batch file.
146	The Batch reference is already exist.
147	The Batch process request has been received.
148	Batch file will be processed.
149	Payment link request id not found.
150	Payment link is already open.
151	3ds_id does not exist.
152	3Ds verification doesn't match the request details.
154	You have reached the maximum number of upload retries.
155	The upload retries is not configured.
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.
788	Invalid bill number.
789	Expired bill number.
790	Invalid bill type code.

23.5 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.

23.5.1 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".

24. 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

Debit Cards:

Payment Option	Card Number	Expiry Date	CVV/ CVC
MADA	5297412542005689	05/21	350
MEEZA	9818950527886700002	05/22	143
MEEZA	5078036221028566	09/23	143

Local Payment Methods:

Payment Option	Card Number	Expiry Date	CVV/ CVC
Knet	0000000001	05/21	1234

Payment Option	Card Number	Expiry Date	OTP	PIN
NAPS	4215375500883243	06/21	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		

25. 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.

25.1 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.

25.2 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>AwwucffCjzibl0eZYTb3</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>
```