

# PHILLIP SECURITIES PTE LTD

# POEMS Mobile 2.0 Futures REST API

# **Program Design Specifications**

For:	Phillip Securities Pte Ltd	Project Ref:	
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То:		Ccr	

# Document Revision History

# Document Title:

Version	Revised by	Effective Date	Summary of Change	Reason for change
1.0	Keyfe Ang	17-May 2016	Initial Draft	
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1.2	Jerry Butiong	19-Jul 2016	Minor document update	
1.3	Jerry Butiong	26-Jul 2016	Added Phase 4 modules	
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1.6	Jerry Butiong	26-Aug 2016	Minor updates	
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1.25	Jerry Butiong	3-Mar 2017	Minor updates	
1.26	Jerry Butiong	23-Mar 2017	Minor updates	

# Change Logs

#### 1.1:

#### Orders/Submit

O Updated response details in submit order

#### 1.2:

#### Contract/Contract Details

Added Price and Marketdepth as parameter of the request

#### 1.3 :

Added Phase 4 modules

## 1.4:

#### Orders/TradeInfo

Updated the URI of getting the contract trade information for trade.

#### 1.5:

- Updated the document based on template format for more clearer details
- Added Change Logs section
- Changed the versioning of the document

#### • Contract/Contract Details

- Updated the response properties for each of the product
- Removed the marketdepth property as market depth data can be only retrieve from PMP once contract is subscribed.
- o Added additional properties for FT and FX contracts

#### Orders/TradeInfo

- Updated the response property of Trade Info between Futures and Forex contracts.
- Changed the data type of tickSize from String to BigDecimal
- Added initialMargin and maintenanceMargin for Forex and added marginCurrency property for both FT and FX trade info

#### Orders/Validate

Updated the parameters to be pass for Futures/Forex

# 1.6:

# Orders/Validate

- o For consistency, changed the request header parameter from "encryptedPassword" to "encryptedPIN"
- $\circ$

#### Orders/Amend Order

O Updated the URI from {product}/orders/{type}/{orderNo} to
{product}/orders/amend/{orderNo}

#### Orders/Withdraw Order

o Updated the URI from {product}/orders/{type}/{orderNo} to
{product}/orders/withdraw/{orderNo}

#### FXInvest/Submit Order

o For consistency, changed the request header parameter from "encryptedPassword" to "encryptedPin"

#### • FXInvest/Amend Order

- o For consistency, changed the request header parameter from "encryptedPassword" to "encryptedPIN"
- o Changed the URI from NFX/conversion{cOrderNo}/{orderNo} to NFX/conversion/amend/ {cOrderNo}/{orderNo}

# FXinvest/Withdraw Order

- o For consistency, changed the request header parameter from "encryptedPassword" to "encryptedPIN"
- o Changed the URI from NFX/conversion/{cOrderNo}/{orderNo} to
  NFX/conversion/withdraw/ {cOrderNo}/{orderNo}

#### 1.7:

- Updated Environment section
- Contract/Contract Details

#### Orders/Trade Info

- Added actions property to the response
- Orders/Validate
  - Changed the value of expiry Day to 0
- Orders/Submit Order
  - Updated the response properties
- News
  - Added search functionality
- News/News Headline
  - Added new URI to search all news from all categories

#### 1.8:

#### HTTP Request

 Added the common parameter in request header and query parameter for GET, PUT, POST Request methods for osVersion and language

#### Orders/Trade Info

o Added defaultQuantity, askPrice, bidPrice in trade info for both FX and FT contracts

#### News

- Set the News URI @PathVariable {product} for FX or FXMN only
- o Remove {product}/news/search URI as the search is supported in news headlines URI

#### News/Get News Headlines

- o Added contentURI property to the response
- o Added keyword query parameter to allow search
- o Supports all news headlines search with {product}/news/all URI
- Supports single/multiple categoryID separated with pipe "|" delimiter

#### 1.9 :

#### Account/Account Details

Rename property names

#### Orders/Trade Info

o Added passwordRequired and twoFARequired properties in response

#### Orders/Submit Order

o Added passwordRequired and twoFARequired properties in response

# Orders/Amend Order

o Added passwordRequired and twoFARequired properties in response

#### Orders/Withdraw Order

o  $\,$  Added <code>passwordRequired</code> and <code>twoFARequired</code> properties in response

#### Orders/Order Details

o Added passwordRequired and twoFARequired properties in response

# Fund Withdrawal

- Changed the title from Fund Withdrawal to Online Withdrawal
- o Changed the URI from {url}/fundwithdrawal to {url}/onlinewithdrawal for all methods

#### 1.10

# PreLogin

o Added section for PreLogin method

#### 1.11

#### FXInvest

- o Added Get FXInvest Trading Info
- Added Validate Currency Ledger Balance

#### 1.12

#### Account

o Added {product} in Equity Balance, Account Details and Account Remisier URI

#### Order/Order Details

- Updated the response in FT and FX/FXMN order details based on Order History Log changes
- FXInvest
  - Added new methods to support add/remove/move counters and sort watch list.
- FXInvest/Amend
  - o Updated the URI and request parameters
- FXInvest/Withdraw
  - Updated the URI
- Transaction History
  - o Added this new section for FXInvest/Online Withdrawal Transaction History
  - o API methods to get the FXInvest/Online Withdrawal order details

#### 1.13

- Online Withdrawal
  - Added method for validating order
- Online Withdrawal/Submit Order
  - Updated the request body and response

#### 1.14 :

- Net Position
  - Updated the net position method.
  - o Added methods to get all (consolidated) list of net positions
- FXInvest
  - Added method for contract search
- FXInvest / Watchlist
  - o Renamed the Contract and Watchlist response from exchageDisplay to exchangeDisplay and counterID to counterID

#### 1.15 :

- Alert
  - Change the URI from /alerts to /alert
- Alert / Account
  - o Grouped the response for margin call and fund deficit
- 1.16 :
  - Chart
    - Updated the response property for both FT/FX chart data
  - Account
    - o Added NFX, to get the user account balance
    - o Updated the response properties
- 1.17
  - Transaction History
    - Updated the URI of FXInvest and Online Withdrawal Order Details
- 1.18
  - Online Withdrawal / Funds
    - o Added passwordRequire and twoFARequire properties on response
  - Transaction History
    - O Added passwordRequire and twoFARequire properties on response
- 1.19 :
  - Position Details
    - o Added currency and expiry properties for Futures Net Position Detail
    - o Added currencyPair property for Forex Net Position Detail
- 1.20
  - Position Details
    - o Added broughtForward and intraDay properties in Futures/Forex Net Position Detail
- 1.21
  - Account / Account Details
    - o Added clientName property in response
  - Account / Equity Balance

o Added termsAndCondition property in response

#### Order Details

o Added product and product Icon properties in Futures/Forex Order Details response

#### 1.22

#### Alerts / Account Alerts

- Added note property for fund deficit
- Added foreMoreInfo property to the For more information details

#### 1.23

#### • Order / Trade Info

o Changed the data type of tickSize property from Decimal to String. This is to return properly the tickSize value especially those with long values (eg. 0.0000005) to avoid returning as exponential value (eg. 5.0E-7)

## • Order / Order Details

o Added tickSize property for FX and FXMN order details response.

#### • FXInvest / Trade Info

 Changed the data type of tickSize property from Decimal to String for consistency of tickSize data type in Trade Info

#### 1.24

#### Contract / Contract Details

- Added new properties highlightStartPosition, highlightLengthOfCharacters and noOfDecimalsDisplay in FXInvest contract details response
- o Removed unused properties pointPosition, ticksForLimit, ticksForMarket, tickSizeForLimit and tickSizeForMarket in FXInvest Contract details

#### Order / Trade Info

- Added new properties currency and noOfDecimalsDisplay in FX/FXMN Trade info
- o Added new property noOfDecimalsDisplay in FT Trade info

#### FXInvest / Trade Info

o Added new properties currency and noOfDecimalsDisplay in FXInvest Trade info

## Transaction History / FXInvest Order

Added new property unitMultiplier in FXInvest order details

#### 1.25

#### Access

AddAdd new API method to validate FXInvest access rights. Refer to EPS-465

#### • Transaction History / FXInvest Order Details

Added new property noofDecimalsDispay for setting the limit of decimal places in amend.
 Reference EPS-661

#### Online Withdrawal / Validate Order

 Added new properties confirmationMessage, note, passwordRequired and twoFARequired in validate response. Refer to EPS-817 for the request of new properties.

## 1.26

#### Order / Amend Order

Add new orderDetailURI response property. Reference on EPS-1025 and EPS-1026

# **Table of Contents**

I.	PROGE	RAM DEFINITION	8
	1.1 Pr	ROGRAM DESCRIPTION AND THE MODULE IN DESIGN SPECIFICATION THIS PROGRAM IS E	BASED ON8
	1.1.1	PreLogin	8
	1.1.2	Account	
	1.1.3	Settings	
	1.1.4	Contract	
	1.1.5	Chart	
	1.1.6	Order	
	1.1.7	News	8
	1.1.8	Net Position	
	1.1.9	Alerts	
	1.1.10	FXInvest	8
	1.1.11	Online Withdrawal	8
	1.2 Pr	ROGRAMMING LANGUAGE/VERSION	9
	1.3 Di	RIVERS REQUIRED/VERSION	9
II.	STRUC	CTURE DESIGN	10
	2.1 Bı	LOCK CHART OR FLOW CHART ON TOP LEVEL STRUCTURE OF THE PROGRAM	10
	2.2 Di	ESCRIPTION OF EACH MODULE	11
	2.2.1	REST Architecture	11
	2.2.1		
	2.2.1		
	2.2.2	Environment	
	2.2.2	· · · · · · · · · · · · · · · · · · ·	
	2.2.2		
	2.2.2 2.2.2	and the state of t	
	2.2.2		
	2.2.2		
		PreLogin	
	2.2.3		
		Access	
	2.2.4		
	2.2.5	Account	
	2.2.5		
	2.2.5		
	2.2.5	1. 7	_
	<b>2.2.6</b> 2.2.6	Settings	
	2.2.0 2.2.7	Contract	
	2.2.7		
	2.2.3	Chart	
	2.2.3		
	2.2.4	Order	-
	2.2.4		
	2.2.4		
	1.2.4		
	1.2.4		
	1.2.4		
	1.2.4		
	1.2.5	News	
	2.2.5 2.2.5		
	2.2.5 2.2.5		
	1.2.6	Net Position	
	1.2.0	110t I 0010011	

	2.2.6.1	Net Position Disclaimer	
	2.2.6.2	Get All Net Position Summary	
	2.2.6.3	Get Futures Net Position Detail	
	2.2.6.1	Get Forex/MiniFX Net Position Detail	
	2.2.7 Ale	rts	
	2.2.7.1	Announcement Alerts	56
	2.2.7.2	Announcement Details	
	2.2.7.3	Account Alerts	
	2.2.7.4	Acknowledge Alert	
		nvest	
	2.2.8.1	Search FXInvest Contract	
	2.2.8.2	Get Watchlist	
	2.2.8.3	Get Watchlist Details by ID	
	2.2.8.4	Add Counter to Watch list	
	2.2.6.1	Rename Watch list	
	2.2.6.2	Remove Counter from Watch list	
	2.2.6.3	Move Counters to another Watch list	
	2.2.6.4	Sort Watch list	
	2.2.6.5	Validate Currency Ledger Balance	73
	2.2.6.6	Get FXInvest Trading Info	
	2.2.6.7	Validate Order	
	2.2.6.8	Submit Order	
	2.2.6.9	Amend Order	
	2.2.6.10	Withdraw Order	
		line Withdrawal	
	2.2.7.1	Get Online Withdrawal Ledger	
	2.2.7.2	Get Withdrawal Types	
	2.2.7.3	Get Online Withdrawal Important Notes	
	2.2.7.4	Get Online Withdrawal Terms and Conditions	
	2.2.7.5	Get Online Withdrawal Interest Rates	
	2.2.7.6 2.2.7.7	Get Bank List	
	2.2.7.7	Get Phillip Group List	
	2.2.7.0	Validate Order	
		Submit Order	
		line Withdrawal / FXInvest Transaction History	
	2.2.8.1	Get Transaction History	
	2.2.8.2 2.2.8.3	Get FXInvest Order Detail	
	2.2.8.3	Get Online Withdrawai Order Detail	91
2.	3 DESCR	RIPTION OF STORED PROCEDURES USED	94
III.	INPUT/OUT	PUT FILES USED	95
3.	1 INDUT	OUTPUT FILE FORMAT DESIGN (WITH SAMPLES ATTACHED)	05
J.		,	
3.	2 ДАТАВ	ASE CONNECTIONS USED	95
IV.	ERROR ME	SSAGE/WARNING MESSAGE LIST	96
V.	ARCHIVAL	AND RECORD RETENTION LIST1	97
VI.	PROGRAM	LIST	98
VII.	ACCEPT	ANCE FORM	99
	Appendix 1		0

# I. Program Definition

PFPL POEMS Mobile 2.0 API – This API will be used to support POEMS Mobile 2.0 application for both Android and iPhone platforms.

This API will support the following modules:

- Futures (FT)
- Forex (FX/FXMN)
- FXInvest (NFX)
- Funds Withdrawal/Online Withdrawal

# 1.1 Program Description and the module in Design Specification this program is based on

# 1.1.1 PreLogin

Provide API functions to supports pre-login functions to retrieve information for FX pre-login watchlist and News

## 1.1.2 Account

Provide API functions to supports all account related information retrieval such as Account Details, Account Remisier or Account Executive and Equity Balance

# 1.1.3 Settings

Provide API function to get the product specific settings like PMP settings

# 1.1.4 Contract

Provide API function to support all contract information retrieval for Futures/Forex.

## 1.1.5 Chart

Provide API function to support the retrieval of chart data for Futures/Forex

### 1.1.6 Order

Provide API functions to support Futures/Forex operations to submit , amend and withdraw order, retrieval of order history and order details.

# 1.1.7 News

Provide API function to support the retrieval of Futures/Forex related News

# 1.1.8 Net Position

Provide API functions to support the retrieval of Futures/Forex Net Position summary and details

#### 1.1.9 Alerts

Provide API functions to support the retrieval of Announcement, Account alerts and acknowledging alerts.

# 1.1.10 FXInvest

Provide API functions to support the FXInvest such as watchlist, validate/submit order, amend, withdrawal, order history/order details retrieval

# 1.1.11 Online Withdrawal

Provide API functions to support the Online Withdrawal such as order submission, retrieval of information.

# 1.2 Programming Language/Version

For this REST API, the following language is used

Java / SpringMVC

# 1.3 Drivers Required/Version

N/A

# **II.** Structure Design

# 2.1 Block Chart or Flow Chart on top level structure of the program

To be updated

# 2.2 Description of each module

# 2.2.1 REST Architecture

# 2.2.1.1HTTP Request

Section		Comp	onent	
Action	HTTP Methods	GET – retrieve a resource PUT – update a resource POST – create a resource DELETE – delete a resource		
	HTTPS	Protocol for se	ecure communication over a network.	
Request Header	accountNo		The Client account no. Identifies/Authorize client using & accessing application resource.	
	sessionID	The session II session.	D. Identifies the current active account's	
	deviceID	The device ID identifier.	. Identifies the user's specific device	
	apiKey	The applicatio	n Key. Indentifies the calling application.	
	versionNo	The mobile app version no.		
Request Body	Common parameter for POST	request only		
		JSON	application/json	
	Content-Type	form	Application/x-www-form- urlencoded	
	osVersion	Mobile OS version no.		
		Optional Yes		
	language	Values	1 - English 2 - Simplified Chinese	
	Default Value		1	
Parameters	Common query parameter for	GET request only		
	osVersion	Mobile OS version no.		
		Language		
		Optional	Yes	
	language	Values	1 - English 2 - Simplified Chinese	
		Default Value	1	

# 2.2.1.2HTTP Response

Section		Component			
Response Body	HTTP Status	200 - OK 400 - Bad Request 401 - Un-authorize 404 - Resource not found 500 - Internal Server Error			
	Response status: code	Defines the specific status code.  Refer to Return Code			
	Response Message:	A detailed description about the response.			
	message	Nullable	Yes		

# 2.2.2 Environment

# 2.2.2.1 Application Server

Application Server
--------------------

# 2.2.2.2URI

Product	URI Product Prefix	Sample Request URI	
Futures	/FT	{url}/FT/contract	
Forex Regular	/FX	{url}/FX/contract	
Forex Mini	/FXMN	{url}/FXMN/contract	
FXInvest	/NFX	{url}/NFX/contract	
All	/	{url}/contract	

## 2.2.2.3 Supported Product

As this API supports the multi-product on POEMS Mobile 2.0 application, the following codes and flags are setup along with the other products.

Product Key	Name	Product Icon	Product Code	Remarks
FT	Futures	FT	8	
FX	Reg Forex	FX	16	
FXMN	Mini Forex	FXMN	32	
NFX	FXInvest	NFX	128	

# 2.2.2.4Supported Platforms

Platform	Version No.	API Key
POEMS Mobile 2.0 Android	2.0.0	3FA5B748-9EC7-41EF-93FA-8C93AC349312
POEMS Mobile 2.0 iPhone	2.0.0	A4AB8B23-735E-4ABC-9E26-9F78292E25CC

# 2.2.2.5Supported Language

Language ID	Language Name
1	EN (English)
2	CN (Simplified Chinese)
3	JP (Japanese)

# 2.2.2.6Return Code

Code	Description
1	Successful Request
-1	Error or Request Failed
-42	Session Expired
-333	Confirmation or Warning

# 2.2.3 PreLogin

# 2.2.3.1 PreLogin Watchlist

Description: Get the pre-login Forex watchlist

Request:

Section	Component			
URI	/FX/contract/watchlist/prelogin			
Verb	GET	GET		
Request Header	Field	Description	Туре	
rieadei	deviceID	The device ID. Identifies the user's specific device identifier.	String	
	apiKey	The application Key. Indentifies the calling application.	String	
	versionNo	The mobile app version no.	String	
Request Body	N/A			
Parameters	Refer to the common Parameter of GET request method in HTTP Request			

PreLog watchlist Details				
Property		I	Description	Туре
code	Response code			Integer
msg	Response mess	age		String
pmpURL	FX PMP URL			String
columns	List of columns t	o be displa	yed	List
	Property		Description	
	title		name to be displayed. Change based on selected language	String
	property	Column p	property value	String
counterData	List of contract of	or counter o	letails	List
	Property		Description	
		Unique id products.		
	counterID	Format	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	String
	name	Contract	display name	String
	productIcon	Product i	con	String
	market	Market w	here the contract belong	String
	product	Product v	vhere the contract belong	String
	pmpTopic	Contract	topic name for subscribing to PMP	String
	symbol	Contract	symbol	String
	spread	Contract	calculated spread	String
	bid	Bid price		String
	ask	Ask price		String
	high	High pric	e	String

```
low
                                       Low price
                                                                                  String
Result
  "code": Integer,
  "msg": String,
  "pmpURL": String,
  "columns": [
      "title": String,
      "property": String
    } ,
    . . .
  "counterData": [
      "counterID": String,
      "name": String,
      "productIcon": String,
      "market": String,
      "product": String,
      "pmpTopic": String,
      "symbol": String,
      "bid": String,
      "spread": String,
      "ask": String,
      "high": String,
"low": String
    },
```

# 2.2.4 Access

# 2.2.4.1 FXInvest / Online Withdrawal Access

Description: Get account access to FXInvest and Online Withdrawal

# Request:

Section	Component	
URI	NFX/access	
Verb	GET	
Request Header	Refer to common request header parameter in HTTP Request	
Request Body	N/A	
Parameters	Refer to the common Parameter of GET request method in HTTP Request	

Access response			
Property		Description	Туре
code	Response code		Integer
msg	Response message	String	
data	Data container		Object
	Property	Description	
	hasAccess	Flag whether account has FXInvest access	Boolean
	accessMessage	Message to displayed if account doesn't have access to FXInvest module	String

	hasTradingAccess	Flag whether account has FXInvest Trading access	Boolean		
	tradingAccessMessage	Message to displayed if account doesn't have access to FXInvest trading module	String		
	hasOnlineWithdrawalA ccess	Flag whether account has Online Withdrawal access	Boolean		
	onlineWithdrawalAcce ssMessage	Message to displayed if account doesn't have access to Online withdrawal module	String		
Result	Result				
"msg": St: "data": {     "hasAcce     "accessI     "hasTrace     "trading     "hasOnl:	<pre>"code": Integer, "msg": String, "data": {     "hasAccess": Boolean,     "accessMessage": String,     "hasTradingAccess": Booelan,     "tradingAccessMessage": String,     "hasOnlineWithdrawalAccess": Boolean,     "onlineWithdrawalAccessMessage": String }</pre>				

# 2.2.5 Account

# 2.2.5.1 Account Details

Description: Get the account portfolio of the client

Request:

Section	Component		
	{product}/acco	punt	
URI	{product}	FT/FX/FXMN/NFX Note: Module is common to all products, can use any of it	
Verb	GET		
Request Header	Refer to common request header parameter in HTTP Request		
Request Body	N/A		
Parameters	Refer to the common Parameter of GET request method in HTTP Request		

Account Details			
Property		Description Type	
code	Response code		Integer
msg	Response message		String
data	Data container		Object
	Property	Description	
	accountNo	Account number	String
	accountName	Account name	String
	baseCurrency	Account base currency	String
	legderBalance	Account ledger balance	String
	accountBalance	Account balance	String

	unrealizedPL	Unrealized P/L	String
	marginExcessDeficit	Margin deficit/excess	String
initialMargin		Portfolio initial margin	String
	maintenanceMargin	Portfolio maintenance margin	String
	utilization	Margin utilization	String
	lastUpdatedTime	Last account detail update timestamp	String
	needDisclaimer	Flag whether disclaimer is needed	Boolean
	disclaimers	List of disclaimer information	List of String
Result			
"account "baseCur "ledgerF "account "unreali "marginF "initial "mainter "utiliza "lastUpo "needDis	cNo": String, cName": String, crency": String, cBalance": String, czedPL": String, cxcessDeficit": String, cmanceMargin": String, cation": Str		

# 2.2.5.2 Account Remisier

Description: Get the Remisier or Account Executive details for Futures account

# Request:

Nequest.			
Section	Component		
	{product}/acc	count/remisier	
URI	{product}	FT/FX/FXMN Note: Module is common to all products, can use any of it	
Verb	GET		
Request Header	Refer to common request header parameter in HTTP Request		
Request Body	N/A		
Parameters	Refer to the common Parameter of GET request method in HTTP Request		

Remisier details			
Property	Description	Туре	
code	Response code	Integer	
msg	Response message	String	

data	Data container		Object
	Property	Description	
	code	Remisier code.	String
	name	Remisier name.	String
	email	Email address.	String
	officeNumber	Office contact number.	String
	mobileNumber	Mobile contact number.	String
Result			
<pre>"code": Integer, "msg": String, "data": {     "code": String,     "name": String,     "email": String,     "officeNumber": String,     "mobileNumber": String, }</pre>			

# 2.2.5.3 Equity Balance

Description: Get client's portfolio

# Request:

Section	Component	
	{product}/acc	count/equitybalance
URI	{product}	FT/FX/FXMN Note: Module is common to all products, can use any of it
Verb	GET	
Request Header	Refer to common request header parameter in HTTP Request	
Request Body	N/A	
Parameters	Refer to the common Parameter of GET request method in HTTP Request	

Account Equity balance response						
Property		Description Type				
code	Response code		Integer			
msg	Response message		String			
data	Data container		Object			
	Property Description					
	accountNo	Account reference no.	String			
	name	Account name	String			
	currency	Account base currency	String			
	balance	Account balance	String			
	ledgerBalance	ledgerBalance Account ledger balance				
	updatedTime	Equity balance last updated time.	String			

	ledgers	Account ledger bala	ance breakdown.	List
		Property	Description	
		currency	Ledger currency	String
		balance	Ledger balance	String
		withdrawable	Flag whether the currency is allowed for Online Withdrawal via POEMS platform	Boolean
		message	If withdrawable is true, this message should be displayed	String
	termsAndCondition	Terms and Condition	on details	String
Result				
"name": "currence" "balance "ledgers" "ledgers" {     "cur     "bal     "wit     "mes },  ],	No": String, String, sy": String, ": String, salance": String, ITime": String,			

# 2.2.6 Settings

# 2.2.6.1 PMP Settings

**Description:** Get the PMP settings of all or specific product

# Request:

Section	Component			
LIDI	{product}/set	tings		
URI {product} FT/FX/FXMN/NFX				
Verb	GET			
Request Header	Refer to common	Refer to common request header parameter in HTTP Request		
Request Body	N/A	N/A		
Parameters	Refer to the comm	non Parameter of GET request method in HTTP Request		

Contains the PMP settings results.					
Property	Description	Type			
code	Response code	Integer			

msq	Response message		String
data	Data container		Object
	Property	Description	Object
	product	Product	String
	market	List of markets FT –shows list of markets or exchanges FX – default to "FX" FXMN – default to "FXMN" NFX – defaults to "NFX"	String
	primaryURL	Primary PMP url	String
	alternativeURLs	List of alternative PMP URL	List of String
Result			
All	/settings		
<pre>"marke" "prime" "alte:     Str:     Str:  ] }, "fx": {     "prode     "marke     "prime     "alte:     Str:  ] }, "fxmn":     "prode     "marke     "alte:     Str:  ] }, "nfx":     "prode     "marke     "alte:     str:  ] } }</pre>	ring,  ct": String, ct": String, aryURL": String, rnativeURLs": [ ing, ing,  ct": String, aryURL": String, rnativeURLs": [ ing, ing,  ct": String, rnativeURLs": [ ing, ing,  ct": String, rnativeURLs": [ ing, ing, ing,  ct": String, rnativeURLs": [ ing, ing, ing,		
FT	FT/settings		
{     "code": In     "msg": St:     "data": {         "produc	nteger, ring, t": String,		

```
"market": String,
  "primaryURL": String,
  "alternativeURLs": [
    String,
    String,
  1
  FX
          FX/settings
"code": Integer,
"msg": String,
"data": {
  "product": String,
  "market": String,
  "primaryURL": String,
  "alternativeURLs": [
   String,
    String,
  ]
}
FXMN
          FXMN/settings
"code": Integer,
"msg": String,
"data": {
  "product": String,
  "market": String,
  "primaryURL": String,
  "alternativeURLs": [
    String,
    String,
  ]
}
 NFX
          NFX/settings
"code": Integer,
"msg": String,
"data": {
  "product": String,
  "market": String,
  "primaryURL": String,
  "alternativeURLs": [
    String,
    String,
  ]
```

# 2.2.7 Contract

# 2.2.7.1 Contract Details

**Description:** Get Futures, Forex (Regular/Mini) and FXInvest contract details.

#### Request:

Section	Component
Section	Component

LIDI	{product}/contract?counterIDs={counterIDs}&price=				
URI	{product}	FT/FX/FXMN/NF	Х		
Verb	GET				
Request Header	Refer to common rec	quest header paran	neter in HTTP Request		
Request Body	N/A				
Parameters	Refer to the common	Parameter of GE	request method in <u>HTTP Request</u>		
	counterIDs	A comma delimi	ted counters ID's.		
		Format <pre></pre>			
		Eg:			
		• Futures -	FT/BURSA/BURSA/FGLDG17		
		• Forex (Re	g) - FX/FX/FX/EURUSD		
		• Forex (Mi	ni) - FXMN/FX/FXMN/AUDCAD		
		• FXInvest	- NFX/NFX/NFX/AUDJPY		
		Optional	No		
	price	Flag to determin	e whether to include contract price.		
		Optional	Yes		
		Values	1 true – Will include contract price		
		Values	0 false – will NOT include contract price		
		Default Value 1			

Contains the	contract details results.				
Property	Description				
code	Response code				Integer
msg	Response message				String
data	Data container				Object
	Common Contract P	roperties (appli	ies to FT	/FX/FXMN/NFX)	
	Property		D	escription	
	productIcon	Product id	Product icon		
	product	Product v	vhere the	contract belong	String
	market	Market w	Market where the contract belong		
	exchange	Contract	Contract exchange  Contract exchange display name		
	exchageDisplay	Contract			
	symbol	Contract	symbol		String
	code	Contract	Contract code.		
	counterID	Unique id products	Unique identifier for contract across multiple products		
		Format	_	<pre>act&gt;/<market>/<exchange> aterID&gt;</exchange></market></pre>	String
	name	Contract	display n	ame	String
	pmpTopic	Contract	Contract topic name for subscribing to PMP		
	disabled		Flag that determines whether the client request the request has access or the contract has been disabled		
		Values	Client has no access to the		

	fals e	Client has access to the contract or the contract is NOT disabled / expired.				
delayIndicator	Delay indicator.	FT/FX/FXMN/NFX contracts	String			
Futures Contract Properties (applicable to FT contracts only)						
Property		Description				
commodityCode	Contract commod	String				
month	Contract month	•				
year	Contract year.		Integer			
monthYear	Combination of m	onth and year properties	String			
commodity	Contract commod	lity code	String			
ticksize	Contract tick size	·	Decima			
preSettlementPrice	Contract pre-settl	ement price	Decima			
initialMargin	Contract initial ma	argin	Decima			
maintenanceMargin	Contract mainten	ance margin	Decima			
marginCurrency	Contract margin of	currency	String			
tickNumerator	Contract tick num	erator	Decima			
tickDenominator	Contract tick dend	ominator	Decima			
isEnabled	Flag whether the	contract is enabled or disabled	Boolear			
orderTypes	List of order types	s applicable for the future	List of Integer			
price	Futures contract	Object				
	Property	Description				
	bid	Bid price	String			
	ask	Ask price	String			
	open	Open price	String			
	high	High price	String			
	low	Low price	String			
	close	Previous close price	String			
	lastDone	Last done price	String			
	change	Change	String			
	percentageCha	nge Percentage change	String			
	bVolK	Buy volume	String			
	sVolK	Sell volume	String			
	volK	Total volume	String			
	time	Price time updated	String			
Forex Properties (applic	able to FX/FXMN c	ontracts only)				
Property						
feedCode	Contract feed co	String				
productType	Forex contract pro	Integer				
spread	Contract calculate	Decima				

lotSize	Contract lot size		String	
displayLotSize				
	Contract display I	String String		
displayUnit	Combination of d	Combination of displayLotSize and displayUnit		
displayLotSizeAndU nit	properties Eg. " x 10K"	String		
tickSize	Contract tick size	Decimal		
spTickSize	Contract SP tick	size	Decimal	
highlightStartPosi tion	tells from which w highlighted	sition indicator. This indicator rould the price decimal should be	Integer	
highlightLengthOfC haracters		f characters. Indicator of how should be highlighted from the	Integer	
noOfDecimalsDispla y	Contract number	of decimal display indicator	Integer	
priceRequestId	Contract price red	quest ID	String	
price	Forex contract pr	ice snapshot information		
	Property	Description		
	bid	Bid price	String	
	ask	Ask price	String	
	open	Open price	String	
	high	High price	String	
	low	Low price	String	
	close	Previous close price	String	
	time	Price time updated	String	
FXInvest Properties (appl	icable to NFX cor	tracts only)		
FXInvest Properties (appl Property	icable to NFX cor	ntracts only)  Description	Туре	
	icable to NFX cor	Description	<b>Type</b> String	
Property		<b>Description</b> odity code		
Property commodityCode	Contract comm Contract feed c Formatted feed	Description  odity code  ode  code used for PMP subscription. ode appended with "[NFX]"	String	
Property  commodityCode  feedCode	Contract comm Contract feed c Formatted feed Contract feed c	Description  odity code  ode  code used for PMP subscription. ode appended with "[NFX]"	String String	
Property commodityCode feedCode nfxFeedCode	Contract comm  Contract feed c  Formatted feed c  Contract feed c  Eg. "[NFX]USD	Description  odity code  ode  code used for PMP subscription. ode appended with "[NFX]"  VS"	String String String	
Property  commodityCode  feedCode  nfxFeedCode  tickSize	Contract comm Contract feed c Formatted feed c Contract feed c Eg. "[NFX]USD Contract tick siz Contract unit m Highlight start p tells from which be highlighted	Description  odity code  ode  code used for PMP subscription. ode appended with "[NFX]"  VS"  ze  ultiplier osition indicator. This indicator would the price decimal should	String String String Decimal	
Property  commodityCode  feedCode  nfxFeedCode  tickSize  unitMultiplier  highlightStartPositi	Contract comm Contract feed c Formatted feed c Contract feed c Eg. "[NFX]USD Contract tick siz Contract unit m Highlight start p tells from which be highlighted Highlight length	Description  odity code  ode  code used for PMP subscription. ode appended with "[NFX]"  VS"  ze  ultiplier osition indicator. This indicator	String String String Decimal Decimal	
Property  commodityCode  feedCode  nfxFeedCode  tickSize  unitMultiplier  highlightStartPosition  highlightLengthOfCha	Contract comm Contract feed c Formatted feed Contract feed c Eg. "[NFX]USD Contract tick siz Contract unit m Highlight start p tells from which be highlighted Highlight length many character price decimals	Description  odity code  ode  code used for PMP subscription. ode appended with "[NFX]"  VS"  ze  ultiplier osition indicator. This indicator would the price decimal should  of characters. Indicator of how	String String String Decimal Decimal Integer	
Property  commodityCode  feedCode  nfxFeedCode  tickSize  unitMultiplier  highlightStartPositi on  highlightLengthOfCharacters	Contract comm Contract feed c Formatted feed c Contract feed c Eg. "[NFX]USD Contract tick siz Contract unit m Highlight start p tells from which be highlighted Highlight length many character price decimals Contract number	Description  odity code  ode  code used for PMP subscription. ode appended with "[NFX]"  VS"  ze  ultiplier  osition indicator. This indicator would the price decimal should  of characters. Indicator of how as should be highlighted from the	String String String Decimal Decimal Integer Integer	
Property  commodityCode  feedCode  nfxFeedCode  tickSize  unitMultiplier  highlightStartPosition  highlightLengthOfCharacters  noOfDecimalsDisplay	Contract comm Contract feed c Formatted feed c Contract feed c Eg. "[NFX]USD Contract tick siz Contract unit m Highlight start p tells from which be highlighted Highlight length many character price decimals Contract number	Description  odity code  ode  code used for PMP subscription. ode appended with "[NFX]"  VS"  ze  ultiplier osition indicator. This indicator would the price decimal should  of characters. Indicator of how s should be highlighted from the  er of decimal display indicator	String String String Decimal Decimal Integer Integer	
Property  commodityCode  feedCode  nfxFeedCode  tickSize  unitMultiplier  highlightStartPosition  highlightLengthOfCharacters  noOfDecimalsDisplay  isTradable	Contract comm Contract feed c Formatted feed c Contract feed c Eg. "[NFX]USD Contract tick siz Contract unit m Highlight start p tells from which be highlighted Highlight length many character price decimals Contract number	Description  odity code  ode  code used for PMP subscription. ode appended with "[NFX]"  VS"  re  cultiplier resition indicator. This indicator would the price decimal should of characters. Indicator of how re should be highlighted from the  er of decimal display indicator is tradable or not	String String String Decimal Decimal Integer Integer Boolean	
Property  commodityCode  feedCode  nfxFeedCode  tickSize  unitMultiplier  highlightStartPosition  highlightLengthOfCharacters  noOfDecimalsDisplay isTradable  isTradableMessage	Contract comm Contract feed c Formatted feed c Contract feed c Eg. "[NFX]USD Contract tick siz Contract unit m Highlight start p tells from which be highlighted Highlight length many character price decimals Contract number	Description  odity code  ode  code used for PMP subscription. ode appended with "[NFX]"  vs"  de  ultiplier osition indicator. This indicator would the price decimal should  of characters. Indicator of how s should be highlighted from the  er of decimal display indicator is tradable or not isTradable flag is false	String String String Decimal Decimal Integer Integer Boolean	
Property  commodityCode  feedCode  nfxFeedCode  tickSize  unitMultiplier  highlightStartPosition  highlightLengthOfCharacters  noOfDecimalsDisplay isTradable  isTradableMessage	Contract comm Contract feed of Formatted feed of Contract feed of Eg. "[NFX]USD of Contract tick size of Contract unit musual Highlight start of tells from which be highlighted of Highlight length many character price decimals of Contract number of Flag if contract Message if the FXInvest contract	Description  odity code  ode  code used for PMP subscription. ode appended with "[NFX]"  VS"  re  ultiplier osition indicator. This indicator would the price decimal should  of characters. Indicator of how is should be highlighted from the  er of decimal display indicator is tradable or not isTradable flag is false act price snapshot information	String String String Decimal Decimal Integer Integer Boolean	
Property  commodityCode  feedCode  nfxFeedCode  tickSize  unitMultiplier  highlightStartPosition  highlightLengthOfCharacters  noOfDecimalsDisplay isTradable  isTradableMessage	Contract comm Contract feed c Formatted feed c Contract feed c Eg. "[NFX]USD Contract tick siz Contract unit m Highlight start p tells from which be highlighted Highlight length many character price decimals Contract number Flag if contract Message if the FXInvest contract	Description  odity code  ode  code used for PMP subscription. ode appended with "[NFX]"  vs"  re  ultiplier rosition indicator. This indicator would the price decimal should of characters. Indicator of how re should be highlighted from the  er of decimal display indicator is tradable or not isTradable flag is false act price snapshot information  Description	String String String Decimal Decimal Integer Integer Boolean String	

	bid	Bid price	String
	ask	Ask price	String
	open	Open price	String
	high	High price	String
	low	Low price	String
	close	Previous close price	String
	time	Price time updated	String

## Result

FT FT/contract?counterIDs={counterIDs}&price=

```
"code": Integer,
"msg": String,
"data": [
  {
    "productIcon": String,
    "product": String,
    "market": String,
    "exchange": String,
    "exchageDisplay": String,
    "symbol": String,
    "code": String,
    "counterId": String,
    "name": String,
    "pmpTopic": String,
    "disabled": Boolean,
    "delayIndicator": String,
    "commodityCode": String,
    "month": Integer,
    "year": Integer,
    "monthYear": String,
    "tickSize": Decimal,
    "preSettlementPrice": Decimal,
    "initialMargin": Decimal,
    "maintenanceMargin": Decimal,
    "tickNumerator": Decimal,
    "tickDenominator": Decimal,
    "isEnabled": Boolean,
    "orderTypes": List< Integer >,
    "price": {
      "symbol": String,
      "bid": String,
      "ask": String,
      "open": String,
      "high": String,
      "low": String,
      "close": String,
      "lastDone": String,
      "change": String,
      "percentChange": String,
      "bVolK": String,
      "sVolK": String,
      "volk": String,
      "time": String
    }
  }
]
 FX
          FX/contract?counterIDs={counterIDs}&price=
```

```
"code": Integer,
  "msg": String,
  "data": [
    {
      "productIcon": String,
      "product": String,
      "market": String,
      "exchange": String,
      "exchageDisplay": String,
      "symbol": String,
      "code": String,
      "counterId": String,
      "name": String,
      "pmpTopic": String,
      "disabled": Boolean,
      "delayIndicator": String,
      "feedCode": String,
      "productType": Integer,
      "spread": Decimal,
      "lotSize": String,
      "displayLotSize": String,
      "displayUnit": String,
      "displayLotSizeAndUnit": String,
      "tickSize": Decimal,
      "spTickSize": Decimal
      "highlightStartPosition": Integer,
      "highlightLengthOfCharacters": Integer,
      "noOfDecimalsDisplay": Integer,
      "priceRequestId": String,
      "price": {
        "symbol": String,
        "bid": String,
        "ask": String,
        "open": String,
        "high": String,
        "low": String,
        "close": String,
        "time": String,
      }
    }
  ]
FXMN
           FXMN/contract?counterIDs={counterIDs}&price=
  "code": Integer,
  "msg": String,
  "data": [
      "productIcon": String,
      "product": String,
      "market": String,
      "exchange": String,
      "exchageDisplay": String,
      "symbol": String,
      "code": String,
      "counterId": String,
      "name": String,
      "pmpTopic": String,
      "disabled": Boolean,
      "delayIndicator": String,
      "feedCode": String,
      "productType": int,
      "spread": BigDecimal,
      "lotSize": String,
      "displayLotSize": String,
      "displayUnit": String,
```

```
"displayLotSizeAndUnit": String,
    "tickSize": BigDecimal,
    "spTickSize": BigDecimal
    "highlightStartPosition": int,
    "highlightLengthOfCharacters": int,
    "noOfDecimalsDisplay": int,
    "priceRequestId": String,
    "price": {
      "symbol": String,
      "bid": String,
      "ask": String,
      "open": String,
      "high": String,
      "low": String,
      "close": String,
      "time": String,
  }
]
 NFX
          NFX/contract?counterIDs={counterIDs}&price=
"code": Integer,
"msg": String,
"data": [
  {
    "productIcon": String,
    "product": String,
    "market": String,
    "exchange": String,
    "exchageDisplay": String,
    "symbol": String,
    "code": String,
    "counterID": String,
    "name": String,
    "pmpTopic": String,
    "disabled": Boolean,
    "delayIndicator": String,
    "commodityCode": String,
    "feedCode": String,
    "nfxFeedCode": String,
    "tickSize": Decimal,
    "unitMultiplier": Decimal,
    "highlightStartPosition": Integer,
    "highlightLengthOfCharacters": Integer,
    "noOfDecimalsDisplay": Integer,
    "isTradable": Boolean,
    "isTradableMessage": String,
    "price": {
      "symbol": String
      "feedcode": String,
      "bid": String,
      "ask": String,
      "open": String,
      "high": String,
      "low": String,
      "close": String,
      "time": String
    }
 }
```

# 2.2.3 Chart

# 2.2.3.1 Get chart data

Description: Get FT and FX contract chart data

Request:

Section	Component						
URI	{product}/chart?counterID={counterID}&interval={interval}						
URI	{product}	FT/FX/FXMN					
Verb	GET						
Request Header	Refer to common re	Refer to common request header parameter in HTTP Request					
Request Body	N/A						
Parameters	Refer to the commo	on Parameter of 0	GET request metho	d in <u>HTTP</u>	Request		
	Field		Desc	cription			
	counterID	Contract count	ers Id				
			<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	ket>/ <ex< td=""><td>change&gt;/<counterid></counterid></td></ex<>	change>/ <counterid></counterid>		
		Eg: Futures - ft/bursa/bursa/fgldg17 Forex (Reg) - fx/fx/fx/eurusd Forex (Mini) - fxmn/fx/fxmn/audcad					
			No				
	interval	Indicator for the	e chart interval				
		Optional	Yes				
			Interval I	ID	Interval Name		
			1		Minutely		
			2		Five minutes		
			3		Fifteen minutes		
		Values	4		Thirty minutes		
			5		Hourly		
			6		Daily		
			7		Weekly		
			8		Monthly		
	Default Value 1						

# Response:

Contains the chart info results for Futures and Forex **Forex Chart Data Response Property Description** Type dttm Chart Date time in string String UTC time in milliseconds. time String String open Open price. String close Close price. String high Highest price. String low Lowest price.

"code": Integer,

"data": [

```
"dttm": String,
       "time": String,
       "open": String,
       "close": String,
       "high": String,
       "low": String,
     },
Futures Chart Data Response
        Property
                                                  Description
                                                                                         Type
date
                          Chart Date
                                                                                         String
                          UTC time in milliseconds.
time
                                                                                         String
                                                                                         String
                          Open price.
open
                                                                                         String
close
                          Close price.
                                                                                         String
high
                          Highest price.
                                                                                         String
low
                          Lowest price.
                                                                                         String
volume
                          Volume.
Result
  "code": Integer,
  "data": [
       "date": String,
       "time": String,
"open": String,
       "close": String,
       "high": String,
       "low": String,
       "volume": String
    },
```

## 2.2.4 Order

# 2.2.4.1 Get FT/FX/FXMN Trading Info

**Description:** Get Futures and Forex contract trading information

# Request:

Section	Component			
LIDI	{product}/orders/tradeinfo?counterID={counterID}			
URI	{product}	FT/FX/FXMN		
Verb	GET			
Request Header	Refer to common request header parameter in HTTP Request			
Request Body	N/A			
Parameters	Refer to the comm	non Parameter of GET request method in HTTP Request		
	Field		Description	
	counterID	Contract counters Id		
		Format	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	
		Eg:		

Futures - ft/bursa/bursa/fgldg17
Forex (Reg) - FX/FX/FX/EURUSD
Forex (Mini) - FXMN/FX/FXMN/AUDCAD

Response:				
Contains trading info respon	ise.			
FT Trading Info				1
Property		Description		
tickSize	Contract tick size			String
preSettlementPrice	Pre-settlement price.			String
initialMargin	Contract initial price	margin (IM)		String
maintenanceMargin	Contract maintenance	e price mar	gin (MM)	String
marginCurrency	Contract margin curr	ency for IM	and MM	String
noOfDecimalsDisplay	Contract price decim	al limit		Integer
askPrice	Contract static ask p	rice		String
bidPrice	Contract static bid pr	ice		String
deafultQuantity	Contract default or m	ninimum qua	antity	Integer
	Contract order types			List
and a sufficient	Property		Description	
orderTypes	id		Order type ID	Integer
	display		Order type description	String
	Contract order expiry			List
	Property		Description	
expiry	id		Expiry ID	Integer
	display Expiry description		String	
	Trade action			
	Action Type 1 - BUY 0 - SELL			
actions	Property		Description	
	value	Action ID		Integer
	text Action description		String	
passwordRequired	Flag if password is re	equired for t	he account	Boolean
twoFARequired	Flag if the 2FA is req	uired for the	e account	Boolean
Forex Trading Info (Applic	able for FX/FXMN cor	ntracts only	)	
Property		Description		Туре
tickSize	Contract tick size			String
displayLotSizeAndUni t	Contract Lot size and Unit display		String	
currency	Contract currency			
initialMargin	Contract initial price margin (IM)			String
maintenanceMargin	Contract maintenance price margin (MM)			String
marginCurrency	Contract margin currency for IM and MM			String

noOfDecimalsDisplay	Contract price dec	Integer		
askPrice	Contract static ask	k price	String	
bidPrice	Contract static bid	l price	String	
deafultQuantity	Contract default o	r minimum quantity	Integer	
	Contract order typ	Contract order types		
, _	Property	Description		
orderTypes	id	Order type ID	Integer	
	display	Order type description	String	
	Contract order exp	Contract order expiry		
	Property	perty Description		
expiry	id	Expiry ID	Integer	
	display Expiry description		String	
	Trade action Action Type 1 - BUY 0 - SELL			
action	Property	Description		
	value	Trade action ID	Integer	
	text	Trade action description	String	
passwordRequired	Flag if password is	Boolean		
twoFARequired	Flag if the 2FA is required for the account			
Result				
FT FT/order:	ders/tradeinfo?counterID={counterID}			
{				

```
"tickSize": String,
"preSettlementPrice": String,
"initialMargin": String
"maintenanceMargin": String
"marginCurrency": String
"noOfDecimalsDisplay": Integer,
"askPrice": String,
"bidPrice": String,
"lastDone": String,
"defaultQuantity": Integer,
"orderTypes": [
  {
    "id": Integer,
    "display": String
  },
],
"expiry": [
    "id": Integer,
    "display": String
```

"value": Integer,
"text": String

}

{

}

"actions": [

```
"passwordRequired": Boolean,
    "twoFARequired": Boolean
FX
            FX/orders/tradeinfo?counterID={counterID}
  "code": Integer,
  "data": {
    "tickSize": String,
    "displayLotSizeAndUnit": String,
    "currency": String,
    "initialMargin": String
    "maintenanceMargin": String
    "marginCurrency": String,
    "noOfDecimalsDisplay": Integer,
    "askPrice": String,
    "bidPrice": String,
    "defaultQuantity": Integer,
    "orderTypes": List<Item>[
        "id": Integer,
        "display": String
      },
      . . .
    "expiry": List<Item>[
        "id": Integer,
        "display": String
      },
    "actions": [
        "value": Integer,
        "text": String
      }
    ],
    "passwordRequired": Boolean,
    "twoFARequired": Boolean
            FXMN/orders/tradeinfo?counterID={counterID}
  FXMN
  "code": Integer,
  "data": {
    "tickSize": String,
    "displayLotSizeAndUnit": String,
    "currency": String,
    "initialMargin": String
    "maintenanceMargin": String
    "marginCurrency": String,
    "noOfDecimalsDisplay": Integer,
    "askPrice": String,
    "bidPrice": String,
    "defaultQuantity": Integer,
    "orderTypes": List<Item>[
        "id": Integer,
        "display": String
      },
      . . .
    "expiry": List<Item>[
```

```
{
    "id": Integer,
    "display": String
},
...

| ,
"actions": [
    {
       "value": Integer,
       "text": String
    }
...
] ,
"passwordRequired": Boolean,
"twoFARequired": Boolean
}
}
```

## 2.2.4.2 Validate Order

**Description:** Perform order validation for Futures and Forex

# Request:

Section	Component				
LIDI	{product}/orders/validate				
URI {product} FT		FT/FX/FXMN			
Verb	POST				
	Refer to the common request header parameter in HTTP Request				
Request	Field		Description	Туре	
Header	encryptedPIN	Encrypted PIN		String	
	Content-Type	application/x-www	r-form-urlencoded	String	
Request Body	Refer to the comm	on Parameter of POS	ST request method in HTTP Request		
	Field		Description	Туре	
	orderNo	Order number		String	
	action	Trade action			
		Values	1 – Buy Action 2 – Sell Action	Integer	
	orderType	Order type			
		Values	FX Order Types  1 - Market  2 - Limit  3 - Stop On Bid  4 - Stop On Offer  5 - OCO Stop On Bid  6 - OCO Stop On Offer  FT Order Types  2 - Limit  3 - Stop  4 - Stop Limit	Integer	
	symbol	Contract symbo	Contract symbol		
	exchange		Contract Exchange. Only applicable for Futures transaction		
		Represents the	Expiry or Validity	1.1	
	expiry	Values	FX Expiry 1 - Day	Integer	

		2 - GTC	
		FT Expiry 0 - Day	
qty	Quantity	U - Day	Integer
price	Represents Price	e, Limit Price and Stop Price	String
stopLimitPrice	Represents Stop	Limit Price	String
ocoPrice	Represents OCC	) Price	String
Futures	l		
Submit Order			
Limit	• exchange		
	• symbol		
	• orderType		
	<ul><li>action</li><li>price</li></ul>		
	<ul><li>price</li><li>qty</li></ul>		
	• expiry		
Stop	• exchange		
	• symbol		
	• orderType		
	• action		
	<ul><li>price</li><li>qty</li></ul>		
	• expiry		
Stop Limit	• exchange		
	• symbol		
	<ul><li>orderType</li></ul>		
	• action		
	<ul><li>price</li><li>stopLimitPr</li></ul>	ri ce	
	• qty	100	
	• expiry		
Forex			
Submit Order			
Limit	• symbol		
	<ul><li>orderType</li></ul>		
	• action		
	• price		
	<ul><li>qty</li><li>expiry</li></ul>		
01 0 D: I	• symbol		
	• orderType		
	• action		
- 1	• price		
	• qty		
01 0 011	<ul><li>expiry</li><li>symbol</li></ul>		
	<ul><li>symbol</li><li>orderType</li></ul>		
	• action		
	• price		
	• qty		
	• expiry		

	OCO Stop On Bid	<ul> <li>symbol</li> <li>orderType</li> <li>action</li> <li>price</li> <li>qty</li> <li>ocoPrice</li> <li>expiry</li> </ul>
	OCO Stop On Offer	<ul> <li>symbol</li> <li>orderType</li> <li>action</li> <li>price</li> <li>qty</li> <li>ocoPrice</li> <li>expiry</li> </ul>
	Amend Order  orderNo price ocoPrice	
Parameters	N/A	

# Response:

Validation response				
Property	Description	Туре		
Code	Response code	Integer		
Message	Response message	String		
data	Generated "auth-token" to be use to submit order	String		
Result				
<pre>{   "code": Integer,   "message": String   "data": String }</pre>				

# 1.2.4.3 Submit Order

**Description**: Submit Futures or Forex order

# Request:

Section	Component			
URI	{product}/orders			
UKI	{product} FT/FX/FXMN			
Verb	POST			
Request Header	Refer to the common request header parameter in HTTP Request			
rieadei	Field	Description	Туре	
	authToken	Auth token generated from validate order.	String	
	encryptedPIN	Encrypted PIN	String	
	Content-Type	application/x-www-form-urlencoded		

Request Body	Refer to the common	ne common Parameter of POST request method in HTTP Request			
	Field		Description		
	symbol	Contract symbol  Contract exchange. Null for non-exchange contracts.			
	exchange				
	action	1	BUY	int	
	action	0	SELL	IIIL	
	orderType	Order type. See tradeInfo API.  Order price.		Int	
	price				
	qty	Order qu	antity.	int	
	expiry	Order ex	piry. See traderInfo API.	Int	
	stopLimitPrice	Stop limit	price.		
	осоТуре	OCO type. Null for non OCO type orders.			
	ocoPrice OCO price. Null for non OCO type ord		e. Null for non OCO type orders.		
Parameter	N/A	•			

Submit response				
Property	Property Description			
code	Response code	Integer		
msg	Response message	String		
orderDetailURI	Order detail URI. This will be available if order is successfully submitted	String		
passwordRequired	Flag if password is required for the account	Boolean		
twoFARequired	woFARequired Flag if the 2FA is required for the account			
Result				
<pre>"code": Integer, "msg": String "orderDetailURI": "passwordRequired" "twoFARequired": B }</pre>	: Boolean,			

# 1.2.4.4 Amend Order

**Description**: Perform amendment for Forex order only

Section	Component				
URI	{product}/orde	ers/amend/{	rs/amend/{orderNo}		
	Field	Description			
	{product}	FX/FXMN		String	
	{orderNo}	Order number	er	Intogor	
		Constraint	regexp={[0-9]+}	Integer	
Verb	POST				

	Refer to the common request header parameter in HTTP Request						
Request Header	Field	Description	Туре				
	encryptedPIN	encrypted PIN	String				
Request Body	Refer to the common Parameter of POST request method in HTTP Request						
	Field	eld Description Type					
	price	Limit price S					
	ocoPrice	OCO price	String				
Parameters	N/A						

Order amendment response						
Property Description						
code	Response code	Integer				
msg	Result message of amendment of order	String				
orderDetailURI	Order detail URI	String				
passwordRequired	Flag if password is required for the account	Boolean				
twoFARequired Flag if the 2FA is required for the account		Boolean				
Result	Result					
<pre>"code": Integer, "msg": String, "orderDetailURI": Boolean, "passwordRequired": Boolean, "twoFARequired": Boolean }</pre>						

## 1.2.4.5 Withdraw Order

Description: Perform order withdrawal for Futures and Forex order

# Request:

Section	Component				
URI	{product}/order	rs/withdraw/{orderNo}			
	Field	Description			
	{product}	FT/FX/FXMN		String	
	{orderNo}	Order number		Integer	
	{OrderNO}	Constraints	regexp={[0-9]+}]		
Verb	POST				
	Refer to the common request header parameter in HTTP Request				
Request Header	Field	Description		Туре	
	encryptedPIN	Encrypted PIN S		String	
Request Body	N/A				
Parameters	N/A				

Property	Description	Туре			
code	Response code	Integer			
msg	Result message of withdrawal of order	String			
passwordRequired	Flag if password is required for the account	Boolean			
twoFARequired	Flag if the 2FA is required for the account	Boolean			
Result					
<pre>{   "code": Integer,   "msg": String,   "passwordRequired": Boolean,   "twoFARequired": Boolean }</pre>					

#### 1.2.4.6 Order Details

**Description**: Get Futures/Forex order details

# Request:

Section	Component		
URI	{product}/orders/{type}/{orderNo}		
	{product}	FT/FX/FXMN	
		History Ty	уре
	{type}	Values	<ul><li>today</li><li>past</li></ul>
	{orderNo}	Order no. [Constriants: regexp={[0-9]+}]	
Verb	GET		
Request Header	Refer to common request header parameter in HTTP Request		
Request Body	N/A		
Parameters	Refer to the common Parameter of GET request method in HTTP Request		

Contains the order status information.						
Property	Description	Туре				
Futures Order Details I	Futures Order Details Response					
productIcon	Product icon	String				
product	Product where the contract belong	String				
orderNo	Order unique identifier	String				
counterID	Contract counter ID	String				
symbol	Contract symbol	String				
name	Contract display name	String				
exchange	Contract exchange	String				
orderType	Order order type name	String				
action	Order action	String				
submittedPrice	Order submitted price	String				
stopLimitPrice	Order stop limit price	String				

	1			
currency	Contract margin currency	у	String	
submittedQty	Order submitted quantity	Order submitted quantity		
submittedTime	Order submitted time	Order submitted time		
executedPrice	Order executed price		String	
executedQty	Order executed quantity		String	
executedTime	Order executed time		String	
expiry	Order validity		String	
status	Order status code		String	
statusDescription	Order status description		String	
statusColor	Order status color hex co	ode	String	
statusColorName	Order status color name		String	
message	Order message/remarks		String	
orderDetailURI	Order detail URI		String	
withdrawURI	Order withdrawal URI		String	
passwordRequired	Flag if password is requi	red for the account	Boolean	
twoFARequired	Flag if the 2FA is require	d for the account	Boolean	
	List of Order Log History		List	
	Field	Description		
	status	Order status code	String	
	statusDescription	Order status description	String	
	statusColor	Order status color hex code	String	
	statusColorName	Order status color name	String	
orderHistory	price	Order submitted/executed price	String	
	triggerPrice	Order stop limit price	String	
	qty	Order submitted/executed quantity	String	
	remaining	Order remaining quantity	String	
	datetime	Order executed time	String	
	message	Order remarks	String	
FX / FXMN Response			•	
productIcon	Product icon		String	
product	Product where the contra	act belong	String	
orderNo	Order unique identifier		String	
counterID	Contract counter ID	·		
symbol	Contract symbol	String		
name	Contract display name		String	
exchange	Contract exchange		String	
orderType	Order order type name		String	
action	Order action		String	
submittedPrice	Order submitted price	String		
ocoPrice	OCO price.		String	
[		OOO prioc.		

	This will be NULL if order type	pe is Limit/Stop Limit		
currency	Contract margin currency	Contract margin currency		
submittedQty	Order submitted quantity	String		
submittedTime	Order submitted time		String	
executedPrice	Order executed price		String	
executedQty	Order executed quantity		String	
executedTime	Order executed time		String	
expiry	Order validity		String	
status	Order status code		String	
statusDescription	Order status description		String	
statusColor	Order status color hex code		String	
statusColorName	Order status color name		String	
displayUnit	Contract display unit		String	
displayLotSize	Contract display lot size		String	
message	Order message/remarks		String	
tickSize	Contract Tick Size		String	
orderDetailURI	Order detail URI		String	
amendURI	Order amend URI	String		
withdrawURI	Order withdrawal URI	String		
passwordRequired	Flag if password is required	Boolean		
twoFARequired	Flag if the 2FA is required fo	r the account	Boolean	
orerHistory	Order log history		List	
	Field	Description		
	status	Order status code	String	
	statusDescription	Order status description	String	
	statusColor	Order status color hex code	String	
	statusColorName	Order status color name	String	
	price	Order submitted/executed price	String	
	ocoPrice	Order OCO price	String	
	qty	Order submitted/executed quantity	String	
		Order remaining quantity	String	
	datetime Order executed time		String	
	message	Order remarks	String	
Result				

#### Result

```
Futures:
{
    "code": 1,
    "data": {
        "productIcon": String,
        "product": String,
        "orderNo": String,
        "counterID": String,
        "symbol": String,
```

```
"name": String,
    "exchange": String,
    "orderType": String,
    "action": String,
    "submittedPrice": String,
    "stopLimitPrice": String,
    "currency": String,
    "submittedQty": String,
    "submittedTime": String,
    "executedPrice": String,
    "executedQty": String,
    "executedTime": String,
    "expiry": String,
    "status": String,
    "statusDescription": String,
    "statusColor": String,
    "statusColorName": String,
    "message": String,
    "orderDetailURI": String,
    "withdrawURI": String,
    "passwordRequired": Boolean,
    "twoFARequired": Boolean,
    "orderHistory": [
        "status": String,
        "statusDescription": String,
        "statusColor": String,
        "statusColorName": " String,
        "price": String,
        "triggerPrice": String,
        "quantity": String,
        "remainingQuantity": String,
        "datetime": String,
        "message": String
      },
    1
  }
FX / FXMN :
  "code": Integer,
  "data": {
    "productIcon": String,
    "product": String,
    "orderNo": String,
    "counterID": String,
    "symbol": String,
    "name": String,
    "exchange": String,
    "orderType": String,
    "action": String,
    "submittedPrice": String,
    "ocoPrice": String,
    "ocoType": String,
    "currency": String,
    "submittedQty": String,
    "submittedTime": String,
    "executedPrice": String,
    "executedQty": String,
    "executedTime": String,
    "expiry": String,
    "status": String,
    "statusDescription": String,
    "statusColor": String,
    "statusColorName": String,
    "displayUnit": String,
    "displayLotSize": String,
```

```
"message": String,
"tickSize": String,
"orderDetailURI": " String,
"amendURI": String,
"withdrawURI": String,
"passwordRequired": Boolean,
"twoFARequired": Boolean
"orderHistory": [
    "status": String,
    "statusDescription": String,
    "statusColor": String,
"statusColorName": String,
    "price": String,
    "ocoPrice": String,
    "quantity": String,
"remainingQuantity": String,
    "transactionDateTime": String,
     "message": String
1
```

# 1.2.5 News

#### 2.2.5.1 Get News Category

**Description**: Get all news category

Section	Component			
URI	All product	/news/category		
	Product Specific	{product}/news/category		
Sp		{product}	FX or FXMN	
Verb	GET			
Request Header	Refer to common request header parameter in HTTP Request			
Request Body	N/A			
Parameters	Refer to the comm	non Parameter of GE	request method in HTTP Request	

Response:			
Contains the n	news category	information.	
Prop	erty	Description	Туре
id		Category unique ID	String
name		Category name	String
description		Category description	String
Result			
All	/news/cat	egory	
"name	<b>-</b>	String	

#### 2.2.5.2 Get News Headline

**Description**: Get news headlines list per category

# Request:

Request.						
Section	Component					
URI	All news headlines from all Category	{product}/news/all?count={count}&keyword={keywor			eyword}	
	Single or	{product}, yword}	/news/	{categoryID}?count={count}&ke	eyword={ke	
	multiple category ID	{category	ID}	Category ID delimited with pipe " " Eg: "0 1 2"		
		{product}				
Verb	GET					
Request Header	Refer to common request header parameter in HTTP Request					
Request Body	N/A					
Parameters	Refer to the comm	non Parameter	non Parameter of GET request method in HTTP Request			
	Field		Description			
	count	Number of re				
		Default Value		Integer		
	keyword	Search keyw				
		Optional	Yes If no	/alue, it will return all	String	

Contains the news headlines per category					
Property	roperty Description				
categoryID	News category ID	String			
id	News ID	String			
title	News title	String			
publishedTime	News published date time	String			
contentURI	News details URI	String			

#### 2.2.5.3 Get News Details

**Description**: Get news details

# Request:

Section	Component				
URI	{product}/news/{categoryID}/{newsID}				
	{product}	FX or FXMN			
	{categoryID}	Category ID. [Constraints: regexp={[0-9]+}]			
	{newsID}	News ID. [Constraints: regexp={[0-9]+}]			
Verb	GET				
Request Header	Refer to common request header parameter in HTTP Request				
Request Body	N/A				
Parameters	Refer to the commo	n Parameter of GET request method in HTTP Request			

# Response:

Contains the news details information.

Contains the news details information.						
Property Description		Туре				
categoryID	News category ID	String				
id	News ID	String				
title	News title.	String				
content	News full content details	String				
publishedTime	News published date time	String				

### Result

```
"code": Integer,
"data": {
    "categoryID": String,
    "id": String,
    "title": String,
    "content": String,
    "publishedTime": String
}
```

# 1.2.6 Net Position

#### 2.2.6.1 Net Position Disclaimer

**Description**: Get net position disclaimer

#### Request:

Section	Component			
URI	{product}/pos	{product}/position/disclaimer		
	{product}	FT/FX/FXMN		
Verb	GET			
Request Header	Refer to common request header parameter in HTTP Request			
Request Body	N/A			
Parameters	Refer to the comm	non Parameter of GET request method in HTTP Request		

# Response:

Nesponse.						
Net Position disclaimer details						
Property	Description	Туре				
code	Response code	Integer				
msg	Response message	String				
data	Net Position disclaimer	String				
Result						
<pre>{    "code": Integer,    "msg": String    "data": String }</pre>						

# 2.2.6.2 Get All Net Position Summary

**Description**: Get all product products Net Position summary

# Request:

Request.				
Section	Component			
URI	{product}/pos	{product}/position/all		
	{product}	FT/FX/FXMN		
Verb	GET	GET		
Request Header	Refer to common request header parameter in HTTP Request			
Request Body	N/A			
Parameters	Refer to the comm	non Parameter of GET request method in HTTP Request		

Response for Net Position summary				
Property	Description	Туре		
code	Response code	Integer		
msg	Response message	String		
data	Response data container			

ft	List of Futures Net Position Summary				
	Field		Des	scription	
	productIcon	Product icon			String
	product	Product wh	ere the contra	act belong	String
	market	Market whe	ere the contrac	ct belong	String
	exchange	Contract ex	change		String
	exchangeDisplay	Contract ex	change displa	ay name	String
	symbol	Contract sy	rmbol		String
	code	Contract co	String		
		Unique ider	ntifier for contr	ract across multiple products	0.1
	counterID	Format	<pre><pre><pre><counteril< pre=""></counteril<></pre></pre></pre>	/ <market>/<exchange>/ D&gt;</exchange></market>	String
	name	Contract dis	splay name		String
	commodityType	Contract co	mmodity type		String
	pmpTopic	PMP topic			String
	delayIndicator	Delay Indic	ator		String
	accountNo	Client acco	unt number		String
	commodityCode	Contract co	mmodity code	9	String
	month	h Contract month			
	year	Contract ye	ear		String
	broughtForward	brought for	ward amount		String
	intraday	Intraday an	nount		String
	net	Net amoun	t		String
	netPositionList	List of Futures Net position		on summary details	List
		Fi	ield	Description	
		productI	con	Product icon	String
		product		Product where the contract belong	String
		market		Market where the contract belong	String
		exchange		Contract exchange	String
		exchangel	Display	Contract exchange display name	String
		symbol		Contract symbol	String
		code		Contract code	String
		counterI	D	Unique identifier for contract across multiple products	String
		name		Contract display name	String
		commodit	уТуре	Contract commodity type	String
		pmpTopic		PMP topic	String
		delayInd	icator	Delay Indicator	String
		broughtFo	orward	Position brought forward	String
		intraday		Position intraday	String

		transact	ionID	Transaction Id	String
		orderID		Order Id	String
		commodit	yCode	Contract commodity code	String
		action		Action	String
		netPosit	ion	Net position amount	String
		quantity		Quantity	String
		price		Price	String
		month		Contract month	String
		year		Contract year	String
		expiry		Contract expiry	String
		transact	ionTime	Transaction Time	String
		position	DetailURI	Position detail URI	String
fx	List of Regular Forex	Net Position	Summary		List
	Field		Des	cription	
	productIcon	Product icc	n		String
	product	Product wh	ere the contra	ct belong	String
	market	Market whe	ere the contrac	et belong	String
	exchange	Contract ex	String		
	exchangeDisplay	Contract exchange display name			String
	symbol	Contract symbol			String
	code	Contract co	ode		String
	counterID	Unique identifier for contract across multiple products			Ctrin ~
		Format	<pre><pre><pre><counterii< pre=""></counterii<></pre></pre></pre>	/ <market>/<exchange>/ )&gt;</exchange></market>	String
	name	Contract di	splay name		String
	commodityType	Contract co	ommodity type		String
	pmpTopic	PMP topic			String
	delayIndicator	Delay Indic	ator		String
	accountNo	Client acco	unt number		String
	broughtForward	brought for	ward amount		String
	intraday	Intraday an	nount		String
	net	Net amoun	t		String
	productType	Product Ty	pe		String
	displayUnits	Display uni	t		String
	displayLotSize	Display lot	size		String
		List of Regular Forex Net position summary detail			
	netPositionList	List of Reg	ular Forex Net	position summary details	List

displayUnits	Display unit	String
3.1 3 1.1		0
action		String
		String
	-	String
	·	String
		String
		String
-	-	String
-	-	String
_	_	String
		String
counterID	contract across multiple products	String String
code	Contract code Unique identifier for	String
symbol		String
exchangeDisplay	name	String
	-	String
market	belong	String
-	belong	String
-	Product icon  Product where the contract	String
	exchange exchangeDisplay symbol code counterID name commodityType pmpTopic delayIndicator broughtForward intraday currencyPair transactionID orderID productType netPosition quantity price action	market  Market where the contract belong  exchange  exchange Contract exchange  Contract exchange display name  symbol  Code  Contract code  Unique identifier for contract across multiple products  name  Contract display name  commodityType  Contract commodity type  pmpTopic  delayIndicator  broughtForward  intraday  currencyPair  transactionID  orderID  product type  netPosition  Net position amount  quantity  price  Price

symbol	Contract sy	ymbol		String
code	Contract co	Contract code		
	Unique ide	ntifier for contr	act across multiple products	
counterID	Format	<pre><pre><pre><pre></pre></pre></pre></pre>	/ <market>/<exchange>/</exchange></market>	String
name	Contract di	isplay name		String
commodityType	Contract co	ommodity type		String
pmpTopic	PMP topic			String
delayIndicator	Delay Indic	cator		String
accountNo	Client acco	ount number		String
broughtForward	brought for	ward amount		String
intraday	Intraday ar	mount		String
net	Net amour	nt		String
productType	Product Ty	уре		String
displayUnits	Display un	it		String
displayLotSize	Display lot	size		String
netPositionList	List of Mini	Forex Net pos	sition summary details	List
	F	ield	Description	
	productI	con	Product icon	String
	product		Product where the contract belong	String
	market		Market where the contract belong	String
	exchange		Contract exchange	String
	exchange	Display	Contract exchange display name	String
	symbol		Contract symbol	String
	code		Contract code	String
	counterI	D	Unique identifier for contract across multiple products	String
	name		Contract display name	String
	commodit	уТуре	Contract commodity type	String
	pmpTopic		PMP topic	String
	delayInd	licator	Delay Indicator	String
	broughtF	orward	Position brought forward	String
	intraday	,	Position intraday	String
	currency	Pair	Currency Pair	String
	transact	ionID	Transaction Id	String

		orderID	Order Id	String
		productType	Product type	String
		netPosition	Net position amount	String
		quantity	Quantity	String
		price	Price	String
		action	Action	String
		displayUnits	Display unit	String
		displayLotSize	Display lot size	String
		transactionTime	Transaction Time	String
		positionDetailURI	Position detail URI	String
needDisclai mer	Flag if disclaimer is ne	eed to be displayed		Boolean
disclaimers	List of disclaimer			List of String

#### Result

```
"code": Integer,
"msg": String,
"data": {
  "ft": [
    "productIcon": String,
    "product": String,
"market": String,
    "exchange": String,
    "exchangeDisplay": String,
    "symbol": String,
    "code": String,
    "counterID": String,
    "name": String,
"commodityType": String,
    "accountNo": String,
    "commodityCode": String,
    "pmpTopic": String,
    "delayIndicator": String,
    "month": String,
    "year": String,
    "broughtForward": String,
    "intraday": String,
    "net": String,
    "netPositionList": [
         "productIcon": String,
         "product": String,
         "market": String,
         "exchange": String,
         "exchangeDisplay": String,
         "symbol": String,
         "code": String,
         "counterID": String,
        "name": String,
"commodityType": String,
"pmpTopic": String,
         "delayIndicator": String,
         "broughtForward": String,
         "intraDay": String,
         "currency": String,
```

```
"transactionID": String,
    "orderID": String,
    "commodityCode": String,
    "action": String,
    "netPosition": String,
    "quantity": String,
    "price": String,
    "month": String,
    "year": String,
    "expiry": String,
    "transactionTime": String,
    "positionDetailURI": String,
  },
  ]
}
"productIcon": String,
"product": String,
"market": String,
"exchange": String,
"exchangeDisplay": String,
"symbol": String,
"code": String,
"counterID": String,
"name": String,
"commodityType": String,
"pmpTopic": String,
"delayIndicator": String,
"accountNo": String,
"broughtForward": String,
"intraday": String,
"net": String,
"productType": String,
"displayUnits": String,
"displayLotSize": String,
"netPositionList": [
  {
    "productIcon": String,
    "product": String,
    "market": String,
    "exchange": String,
    "exchangeDisplay": String,
    "symbol": String,
    "code": String,
    "counterID": String,
    "name": String,
"commodityType": String,
    "pmpTopic": String,
    "delayIndicator": String,
    "broughtForward": String,
    "intraDay": String,
    "currencyPair": String,
    "transactionID": String,
    "orderID": String,
    "productType": String,
    "netPosition": String,
    "quantity": String,
    "price": String,
    "action": String,
    "displayUnits": String,
    "displayLotSize": String,
    "transactionTime": String,
    "positionDetailURI": String
  },
```

```
}
"fxmn": [
 "productIcon": String,
  "product": String,
 "market": String,
  "exchange": String,
  "exchangeDisplay": String,
  "symbol": String,
  "code": String,
  "counterID": String,
  "name": String,
  "commodityType": String,
  "pmpTopic": String,
  "delayIndicator": String,
  "accountNo": String,
  "broughtForward": String,
  "intraday": String,
  "net": String,
  "productType": String,
  "displayUnits": String,
  "displayLotSize": String,
  "netPositionList": [
    {
      "productIcon": String,
      "product": String,
      "market": String,
      "exchange": String,
      "exchangeDisplay": String,
      "symbol": String,
      "code": String,
      "counterID": String,
      "name": String,
"commodityType": String,
      "pmpTopic": String,
      "delayIndicator": String,
      "broughtForward": String,
      "intraDay": String,
      "currencyPair": String,
      "transactionID": String,
      "orderID": String,
      "productType": String,
      "netPosition": String,
      "quantity": String,
      "price": String,
      "action": String,
      "displayUnits": String,
      "displayLotSize": String,
      "transactionTime": String,
      "positionDetailURI": String
   },
 ],
"needDisclaimer": Booelan,
"disclaimers": [
  "String",
  "String",
```

## 2.2.6.3 Get Futures Net Position Detail

**Description**: Get Futures Net Position detail

Request:

Section	Component				
URI	FT/position/{symbol}/{transactionID}/{orderID}				
	Field Description Type				
	{symbol}	Contract symbol	String		
	{transactionID}	Net position transaction id	Integer		
	{orderID}	Net position order id Int			
Verb	GET				
Request Header	Refer to common request header parameter in HTTP Request				
Request Body	N/A				
Parameters	Refer to the common Parameter of GET request method in HTTP Request				
	Parameter Description Type				
	exchangeCode Contract Exchange code String				
	Month	Contract month	Integer		
	year Contract year Integer				

Response for Futures I	Net Position detail	
Property	Description	Туре
code	Response code	Integer
msg	Response message	String
data	Response data container	
productIcon	Product icon	String
product	Product where the contract belong	String
market	Market where the contract belong	String
exchange	Contract exchange	String
exchangeDisplay	Contract exchange display name	String
symbol	Contract symbol	String
code	Contract code	String
counterID	Unique identifier for contract across multiple products	String
name	Contract display name	String
commodityType	Contract commodity type	String
pmpTopic	PMP Topic	String
delayIndicator	Delay Indicator	String
broughtForward	Position brought forward	String
intraDay	Position Intraday	String
currency	Contract currency	String
transactionID	Transaction Id	String
Ordered	Order Id	String

commodityCode	Contract commodity code Str			
action	Action	String		
netPosition	Net position amount	String		
quantity	Quantity St			
price	Price String			
month	Contract month	String		
year	Contract year	String		
expiry	Contract expiry			
transactionTime	Transaction Time	String		
positionDetailURI	Position detail URI	String		
Result				
"msg": String, "data": {     "productIcon":     "product": String,     "market": String,     "exchange": String,     "symbol": String,     "counterID": String,     "counterID": String,     "commodityType'     "pmpTopic": String,     "commodityType'     "pmpTopic": String,     "core string,     "commodityType'     "pmpTopic": String,     "commodityType'     "pmpTopic": String,     "core string,     "core string,     "core string,     "commodityCode'     "action": String,     "quantity": String,     "year": String,     "expiry": String,     "expiry": String,     "expiry": String,     "expiry": String,     "positionDetail	ing, ng, ring, ay": String, ng, ": String, ring, ring, ring, r": String, ring, string, ng, string, ng, string, ring, ring, string, ring, string, ring, string, ring, ring, string, ring, ring, string, ring, r			

# 2.2.6.1 Get Forex/MiniFX Net Position Detail

**Description**: Get Regular and Mini Forex Net Position detail

request.					
Section	Component				
URI	Regular FX	<pre>FX/position/{symbol}/{transactionID}/{orderID}</pre>			
	Mini FX	FXMN/position/{symbol}/{transactionID}/{orderID}			
	Field		Description	Туре	

	{symbol}	Contract symbol	String		
	{transactionID}	Net position transaction id	Integer		
	{orderID}	Net position order id	Integer		
Verb	GET				
Request Header	Refer to common request header parameter in HTTP Request				
Request Body	N/A				
Parameters	Refer to the common Parameter of GET request method in HTTP Request				

Response for Regular/Mini Forex Net Position detail				
Property	Description	Туре		
code	Response code	Integer		
msg	Response message	String		
data	Response data container			
productIcon	Product icon	String		
product	Product where the contract belong	String		
market	Market where the contract belong	String		
exchange	Contract exchange	String		
exchangeDisplay	Contract exchange display name	String		
symbol	Contract symbol	String		
code	Contract code	String		
counterID	Unique identifier for contract across multiple products	String		
name	Contract display name	String		
commodityType	Contract commodity type	String		
delayIndicator	Delay Indicator	String		
broughtForward	Position brought forward	String		
intraDay	Position Intraday	String		
currencyPair	Contract currency pair (symbol1 / symbol2)	String		
currency	Contract currency (right currency)	String		
transactionID	Transaction Id	String		
ordered	Order Id	String		
productType	Product type	String		
netPosition	Net position amount	String		
quantity	Quantity	String		
price	Price	String		
action	Action S			
displayUnits	Display unit	String		
displayLotSize	Display lot size Stri			
transactionTime	Transaction Time	String		
positionDetailURI	Position detail URI	String		

```
Result
  "code": Integer,
  "msg": String,
"data": {
    "productIcon": String,
    "product": String,
    "market": String,
    "exchange": String,
    "exchangeDisplay": String,
    "symbol": String,
    "code": String,
    "counterID": String,
    "name": String,
"commodityType": String,
    "pmpTopic": String,
    "delayIndicator": String,
    "broughtForward": String,
    "intraDay": String,
    "currencyPair": String,
    "currency": String,
    "transactionID": String,
    "orderID": String,
    "productType": String,
    "netPosition": String,
    "quantity": String,
    "price": String,
    "action": String,
    "displayUnits": String,
    "displayLotSize": String,
    "transactionTime": String,
    "positionDetailURI": String
```

#### 2.2.7 Alerts

#### 2.2.7.1 Announcement Alerts

#### Description:

### Request:

Request:					
Section	Component				
URI	{product}/ale	rt/announcemen	t/announcement		
	{product}	FT or FX Either the t response	wo products can be and return th	ne same	
Verb	GET				
Request Header	Refer to common request header parameter in HTTP Request				
Request Body	N/A	N/A			
Parameters	Refer to the comm	non Parameter of GET request method in HTTP Request			
	Field		Description	Туре	
		Timestamp			
	timestamp	Optional Yes			
		Constraints yyyyMMddHHmmss			

### Response:

Contains announcement alert information.

Property	Description	Туре
code	Response code	Integer
id	The announcement ID.	String
title	Announcement title.	String
time	Announcement time.	String
hightlight	Determines announcement read flag. true if read, otherwise, false.	Boolean
product	Product identifier.	String
type	Announcement	String
detailURI Announcement details URI.		String
Result		
<pre>{   "code": Integer,   "data": {         "id": String,         "title": Stri         "time": Strin         "hightlight":         "product": St         "type": Strin         "detailURI":         },</pre>	g, Boolean, ring, g,	

# 2.2.7.2 Announcement Details

**Description**: Get the announcement details

#### Request:

]

Section	Component				
URI	{product}/ale:	rt/announcement	t/announcement/{alertID}		
	{product}	FT/FX			
	(alex+TD)	Alert ID			
	{alertID}		[0-9]+		
Verb	GET				
Request Header	Refer to common request header parameter in HTTP Request				
Request Body	N/A				
Parameters	Refer to the comm	non Parameter of G	ET request method in HTTP Request		

Contains announcement alert information.				
Property	Description	Туре		
code	Response code	Integer		
timestamp	Timestamp	String		
id	The announcement ID.	String		

title	Announcement title.	String
content	Announcement content.	String
time	Announcement time.	String
product	Product identifier.	String
type	Type announcement	String
Result		
<pre>{   "code": Integer,   "data": {      "id": String,      "title": String,      "content": String,      "time": String,      "product": String      "type": String } </pre>		

# 2.2.7.3 Account Alerts

**Description**: Get all account related alerts

#### Request:

Request.						
Section	Component					
URI	{product}/ale:	rt/account	t/account			
	{product}	FT or FX	FT or FX			
		Either the tresponse	Either the two products can be and return the same response			
Verb	GET					
Request Header	Refer to common request header parameter in HTTP Request					
Request Body	N/A					
Parameters	Refer to the common Parameter of GET request method in HTTP Request					
	Field	Description Type				
		Timestamp				
	timestamp Optional Yes					
		Constraints	yyyyMMddHHmmss(24 hours format)			

Contains all account related alerts				
Property	Description Type			
code	Response code	Response code		
msg	Response message	Response message		
timestamp	Timestamp	String		
marginCall	Container of margin	Container of margin call alert		
	name	Client name	String	
	amount	Margin call amount	String	
	lastUpdated	Last date and time when margin call updated	String	

	highLight	Flag whether the alert is read or not		Boolean
fundDeficit	Container of fund de	eficit		
	deficitAmount	List of fund deficits	List of fund deficits	
		Property	Description	
		currency	Fund deficit currency	String
		amount	Fund deficit amount	String
	lastUpdated	Last date and time when margin	call updated	String
	highLight	Flag whether the alert is read or r	not	Boolean
	note	Fund deficit note		String
forMoreInfo	For more informatio	For more information note		
Result				
<pre>"amoun "lastU "highL }, "fundDef "defic {     "c     "a     },  ], "lastU "highL "note" }</pre>	all": { : String, t": String, pdated": String, ight": Boolean	,		

# 2.2.7.4 Acknowledge Alert

**Description**: Perform alert acknowledgement to all alert type

Section	Component			
URI	{product}/alert/{type}/acknowledge			
	{product}	FT/FX		
	{type}	Alert type		
		Constraints	account announcement price order marginCall fundDeficit	
Verb	POST			
Request	Refer to the comm	non request header pa	arameter in <u>HTTP Request</u>	

Header						
	Refer to the common Parameter of POST request method in HTTP Request					
Poguest Pody	Field Description Ty					
Request Body	remarks	Remarks	String			
		Optional	Yes			
Parameters	N/A					

Contains alert acknowledge result info.				
Property	Description	Туре		
code	Response code	Integer		
data	true - Successful false – Not successful	Boolean		
Result				
<pre>{    "code": Integer,    "data": Boolean }</pre>				

# 2.2.8 FXInvest

#### 2.2.8.1 Search FXInvest Contract

**Description**: Search FXInvest contract

## Request:

Section	Component						
URI	NFX/contract/search/{keyword}						
	keyword	Search	Search keyword				
Verb	GET	·					
Request Header	Refer to common request header parameter in HTTP Request						
Request Body	N/A						
Parameters	Refer to the common Parameter of GET request method in HTTP Request						
	Parameter		Details Type				
	count	Result count nur	Result count number				
count		Default	10	Integer			

response.				
Response for FXInvest search contract				
Property		Description	Туре	
code	Response code		Integer	
msg	Response message		String	
counterList	List of counters		List	
	Field	Property		

productIcon	Product icon			String	
product	Product v	vhere the c	ontract belong	String	
market	Market w	Market where the contract belong			
exchange Contract exchange				String	
exchangeDisplay	Contract	exchange of	display name	String	
symbol	Contract symbol			String	
code	Contract	code		String	
	Unique identifier for contract across multiple products				
counterID	Format	<pre><pre><pre><pre></pre></pre></pre></pre> <pre></pre> <pre>rID&gt;</pre>		String	
name	Contract	display nar	me	String	
pmpTopic	Contract	topic name	for subscribing to PMP	String	
disabled			s whether the client request the or the contract has been		
	Values	true	Client has no access to the contract or the contract has already disabled/expired.	Boolean	
	values	false	Client has access to the contract or the contract is NOT disabled / expired		
delayIndicator	Delay ind Not appli		FX contracts	String	
 rank	Result ra			Integer	

# Result

```
"code": Integer,
"msg": String,
"counterList": [
   "productIcon": String,
   "product": String,
    "market": String,
    "exchange": String,
    "exchangeDisplay": String,
    "symbol": String,
    "code": String,
    "counterID": String,
    "name": String,
    "pmpTopic": String,
    "disabled": Boolean,
    "delayIndicator": String,
    "rank": Integer
  },
```

#### 2.2.8.2 Get Watchlist

**Description**: Get FXInvest watch list

Section Component	
-------------------	--

URI	NFX/watchlist
Verb	GET
Request Header	Refer to common request header parameter in HTTP Request
Request Body	N/A
Parameters	Refer to the common Parameter of GET request method in HTTP Request

Response for FXInvest watch	Response for FXInvest watch list					
Property	Description	Туре				
watchlistID	Watch list id	Integer				
watchlistName	Watch list name	String				
counterListURI	Watch list Detail URI	String				
index	Watch list order number	Integer				
Result						
<pre>"code": Integer, "data": [</pre>	: String, ": String, r Integer, : String, ": String,					

# 2.2.8.3 Get Watchlist Details by ID

**Description**: Get FXInvest watch list details ny ID

# Request:

Request:	request:				
Section		Component			
URI	NFX/watchlist/{w	natchListID}			
	{watchListID}	FXInvest watch list ID			
	{watchilistiD}	Constraint	regexp={[0-9]+}		
Verb	GET	GET			
Request Header	Refer to common requ	Refer to common request header parameter in HTTP Request			
Request Body	N/A	N/A			
Parameters	Refer to the common	Parameter of GET	request method in <u>HTTP Request</u>		

Response message   Signate	Property		Descript	ion	Туре
	code	Response code			Integer
Property   Watch list ID	nsg	Response message			String
watchlistId         Watch list ID         Interest           watchlistName         Signature           Counters           Watch list items           Property         Description           name         Contract name         Signature           code         Contract code         Signature           index         Order number         Int           symbol         Contract symbol         Signature           feedCode         Contract feed code         Signature           product         Product name         Signature           exchange         Exchange code         Signature           exchange Display         Exchange display         Signature           market         Contract market         Signature           counterID         Contract counter Id         Signature           pmpTopic         PMP topic name         Signature           isTradable         Flag, whether contract is allowed for conversion         Signature           if isTradable is false, display this message         Signature         Signature           ask         Ask Price         Signature           bid         Bid price         Signature           open         Open price<	lata	Response data container			Object
Watch list name Counters  Watch list items  Property Description  name Contract name Code index Order number Int symbol Contract symbol feedCode Contract feed code product Product name Exchange Exchange code Exchange display Market CounterID Contract counter Id Si pmpTopic PMP topic name Si isTradable Flag, whether contract is allowed for conversion Message is contract is not allowed for conversion IsTradableAlessage Ask Ask Price Si bid Bid price Open Open price high High price Issue Ast update time Si Counter Si S		Property		Description	
Watch list items		watchlistId	Watch list ID		Integer
Watch list items			Watch list name		String
name Contract name Signature Code Contract code Signature Code Contract code Signature Contract symbol Signature Contract symbol Signature Contract feed code Signature Contract feed code Signature Contract feed code Signature Contract Code Signature Code Signature Contract Code Signature Code Signature Code Signature Contract Code Signature Code Sig			Watch list items		List
code index Order number Int symbol Contract symbol feedCode Contract feed code product Product name Exchange Exchange code Exchange display Si market Contract market Si counterID Contract counter Id pmpTopic PMP topic name isTradable flag, whether contract is allowed for conversion Message is contract is not allowed for conversion isTradable Si If isTradable is false, display this message ask Ask Price Si bid Bid price Open Open price high High price Si Itime Last update time Si			Property	Description	
index  Symbol Contract symbol Signature  Symbol Contract symbol Signature  FeedCode Contract feed code Signature  Froduct Product name Signature  Exchange Exchange code Exchange display Exchange display  Signature  Exchange display Exchange display  Exchange displ			name	Contract name	String
symbol Contract symbol Si feedCode Contract feed code Si product Product name Si exchange Exchange code Si exchangeDisplay Exchange display Si market Contract market Si counterID Contract counter Id Si pmpTopic PMP topic name Si isTradable Flag, whether contract is allowed for conversion Message is contract is not allowed for conversion isTradableMessage Si If isTradable is false, display this message ask Ask Price Si bid Bid price Si open Open price Si high High price Si low Low price Si close Previous close price Si			code	Contract code	String
feedCode Contract feed code Signal product Product name Signal product Product name Signal product Product name Signal product Product name Signal product Signal Product Contract Counter Id Signal Product Counter Id Signal Product Counter Id Signal Product Sign			index	Order number	Integer
product Product name  exchange Exchange code  exchangeDisplay Exchange display  market Contract market  counterID Contract counter Id  pmpTopic PMP topic name  isTradable Flag, whether contract is allowed for conversion  Message is contract is not allowed for conversion  If isTradable is false, display this message  ask Ask Price  bid Bid price  open Open price  high High price  low Low price  time Last update time			symbol	Contract symbol	String
exchange Exchange code exchangeDisplay Exchange display  market Contract market Si  counterID Contract counter Id Si  pmpTopic PMP topic name Si  isTradable Flag, whether contract is allowed for conversion Message is contract is not allowed for conversion  isTradableMessage  ask Ask Price Si  bid Bid price Si  open Open price Si  high High price Si  low Low price Si  close Previous close price Si  time Last update time Si			feedCode	Contract feed code	String
exchangeDisplay Exchange display  market Contract market Si  counterID Contract counter Id Si  pmpTopic PMP topic name Si  isTradable Flag, whether contract is allowed for conversion Message is contract is not allowed for conversion  isTradableMessage If isTradable is false, display this message  ask Ask Price Si  bid Bid price Si  open Open price Si  high High price Si  low Low price Si  close Previous close price Si  time Last update time Si			product	Product name	String
market Contract market State of CounterID Contract counter Id State of CounterID Contract counter Id State of Contract is allowed for Conversion Conversion Message is contract is allowed for conversion If isTradable is false, display this message ask Ask Price State of Contract is not allowed for conversion State of Conversion S			exchange	Exchange code	String
counterID Contract counter Id Si  pmpTopic PMP topic name SI  isTradable Flag, whether contract is allowed for conversion Message is contract is not allowed for conversion If isTradable is false, display this message ask Ask Price Si  bid Bid price Si  open Open price Si  low Low price Si  close Previous close price Si  time Last update time Si			exchangeDisplay	Exchange display	String
pmpTopic PMP topic name Signature is allowed for conversion Plag, whether contract is allowed for conversion Message is contract is not allowed for conversion If isTradable is false, display this message ask Ask Price Signature is price Sign			market	Contract market	String
Flag, whether contract is allowed for conversion  Message is contract is not allowed for conversion  If isTradable is false, display this message  ask Ask Price Si bid Bid price Si open Open price Si high High price Si low Low price Si close Previous close price Si time Last update time Si			counterID	Contract counter Id	String
conversion  Message is contract is not allowed for conversion  If isTradableMessage  If isTradable is false, display this message  ask  Ask Price  bid  Bid price  Open  Open price  high  High price  Iow  Low price  Si  close  Previous close price  Si  Si  Si  Si  Si  Si  Si  Si  Si  S			pmpTopic	PMP topic name	String
for conversion  If isTradable is false, display this message  ask  Ask Price  Si  bid  Bid price  Open  Open price  high  High price  Iow  Low price  Si  close  Previous close price  Si  Si  Si  Si  Si  Si  Si  Si  Si  S			isTradable	conversion	Boolea
bid         Bid price         St           open         Open price         St           high         High price         St           low         Low price         St           close         Previous close price         St           time         Last update time         St			isTradableMessage	for conversion  If isTradable is false, display this	String
open         Open price         St           high         High price         St           low         Low price         St           close         Previous close price         St           time         Last update time         St			ask	Ask Price	String
high High price Si  low Low price Si  close Previous close price Si  time Last update time Si			bid	Bid price	String
low Low price Si  close Previous close price Si  time Last update time Si			open	Open price	String
close Previous close price State time Last update time State time			high	High price	String
time Last update time Si			low	Low price	String
			close	Previous close price	String
			time	Last update time	String
esult	esult				

"watchlistId": Integer,
"watchlistName": String,

"name": String,
"code": String,
"index": Integer,

"counters": [

```
"symbol": String,
    "feedCode": String,
"product": String,
    "exchange": String,
    "exchangeDisplay": String,
    "market": String,
    "counterID": String,
    "pmpTopic": String,
    "isTradable": Boolean,
    "isTradableMessage": String,
    "ask": String,
    "bid": String,
    "open": String,
    "high": String,
    "low": String,
    "close": String,
" close ": String,
  },
]
```

#### 2.2.8.4 Add Counter to Watch list

**Description**: Add counter to FXInvest watch list and return updated watchlist

#### Request:

Section	Component				
URI	NFX/watchlist/ad	d/{watchListI	D}		
	watchListID	FXInvest wat	ch list ID		
	watchilistib	Constraint	regexp={[0-9]+}		
Verb	POST	POST			
Request Header	Refer to common requ	uest header paran	neter in <u>HTTP Request</u>		
	Refer to the common	Parameter of POS	ST request method in HTTP Request		
Request Body	Field Description Type				
	counterIDs Comma delimited list of counterIDs String				
Parameters	Refer to the common	Parameter of GET	request method in HTTP Request		

Add watchl	Add watchlist response					
Property		Descripti	on	Туре		
code	Response code			Integer		
msg	Response messag	ge		String		
data	Response data co	container				
	Property		Description			
	watchlistId	Watch list ID		Integer		
	watchlistNam e	Watch list name		String		
	counters	Watch list items	Vatch list items			
		Property	Description			

name	Contract name	String
code	Contract code	String
index	Order number	Integer
symbol	Contract symbol	String
feedCode	Contract feed code	String
product	Product name	String
exchange	Exchange code	String
exchangeDisplay	Exchange display	String
market	Contract market	String
counterID	Contract counter Id	String
pmpTopic	PMP topic name	String
isTradable	Flag, whether contract is allowed for conversion	Boolean
isTradableMessage	Message is contract is not allowed for conversion  If isTradable is false, display this message	String
ask	Ask Price	String
bid	Bid price	String
open	Open price	String
high	High price	String
low	Low price	String
close	Previous close price	String
time	Last update time	String

#### Result

```
"code": Integer,
"msg": String,
"data": {
  "watchlistId": Integer,
  "watchlistName": String,
  "counters": [
      "name": String,
      "code": String,
      "index": Integer,
      "symbol": String,
      "feedCode": String,
      "product": String,
      "exchange": String,
      "exchangeDisplay": String,
      "market": String,
      "counterID": String,
      "pmpTopic": String,
      "isTradable": Boolean,
      "isTradableMessage": String,
      "ask": String,
      "bid": String,
      "open": String,
      "high": String,
      "low": String,
      "close": String,
" close ": String,
```

```
},
...
1
}
```

# 2.2.6.1 Rename Watch list

**Description**: Rename FXInvest watch list name

# Request:

Request:						
Section			Component			
URI	NFX/watchlist/re	name/{watchLi	stID}			
	watchListID	FXInvest wat	ch list ID			
	watchilistib	Constraint regexp={[0-9]+}				
Verb	POST	POST				
Request Header	Refer to common requ	uest header paran	neter in <u>HTTP Request</u>			
	Refer to the common	Refer to the common Parameter of POST request method in HTTP Request				
Request Body	Field Description Type					
	watchlistName New watchlist name String					
Parameters	Refer to the common	Refer to the common Parameter of GET request method in HTTP Request				

Rename wa	tchlist response			
Property		Descri	ption	Туре
code	Response code			Integer
msg	Response mess	age		String
data	Response data	container		Object
	Property		Description	
	watchlistId	Watch list ID		Integer
	watchlistNa me	Watch list name		String
	counters	Watch list items		List
		Property	Description	
		name	Contract name	String
		code	Contract code	String
		index	Order number	Integer
		symbol	Contract symbol	String
		feedCode	Contract feed code	String
		product	Product name	String
		exchange	Exchange code	String
		exchangeDisplay	Exchange display	String
		market	Contract market	String

	counterID	Contract counter Id	String
	pmpTopic	PMP topic name	String
	isTradable	Flag, whether contract is allowed for conversion	Boolean
	isTradableMessage	Message is contract is not allowed for conversion  If isTradable is false, display this message	String
	ask	Ask Price	String
	bid	Bid price	String
	open	Open price	String
	high	High price	String
	low	Low price	String
	close	Previous close price	String
	time	Last update time	String

#### Result

```
"code": Integer,
"msg": String,
"data": {
  "watchlistId": Integer,
  "watchlistName": String,
  "counters": [
    {
      "name": String,
      "code": String,
      "index": Integer,
"symbol": String,
      "feedCode": String,
      "product": String,
      "exchange": String,
      "exchangeDisplay": String,
      "market": String,
      "counterID": String,
      "pmpTopic": String,
      "isTradable": Boolean,
      "isTradableMessage": String,
      "ask": String,
      "bid": String,
      "open": String,
      "high": String,
      "low": String,
      "close": String,
      " close ": String,
    },
  ]
```

#### 2.2.6.2 Remove Counter from Watch list

**Description**: Remove/Delete counter from FXInvest watch list and return updated watch list

Section	Component					
URI	NFX/watchlist/remove/{watchListID}					
	watchListID	FXInvest wat	ch list ID			
	watchilistib	Constraint regexp={[0-9]+}				
Verb	POST					
Request Header	Refer to common requ	uest header paran	neter in <u>HTTP Request</u>			
	Refer to the common	Parameter of POS	ST request method in HTTP Request			
Request Body	Field Description Type					
	counterIDs	counterIDs Comma delimited list of counterIDs String				
Parameters	Refer to the common	Parameter of GE	request method in HTTP Request			

Remove w	atchlist response			
Property		Descript	ion	Type
code	Response code			Integer
msg	Response messa	nse message		
data	Response data co	ontainer		Object
	Property		Description	
	watchlistId	Watch list ID		Integer
	watchlistNam e	Watch list name		String
	counters	Watch list items		List
		Property	Description	
		name	Contract name	String
		code	Contract code	String
		index	Order number	Integer
		symbol	Contract symbol	String
		feedCode	Contract feed code	String
		product	Product name	String
		exchange	Exchange code	String
		exchangeDisplay	Exchange display	String
		market	Contract market	String
		counterID	Contract counter Id	String
		pmpTopic	PMP topic name	String
		isTradable	Flag, whether contract is allowed for conversion	Boolear
		isTradableMessage	Message is contract is not allowed for conversion	String
		Torradabienessage	If isTradable is false, display this message	Ourig
		ask	Ask Price	String
		bid	Bid price	String
		open	Open price	String

		high	High price	String			
		low	Low price	String			
		close	Previous close price	String			
		time	Last update time	String			
Result	Result						
"msg": "data" "wat "wat	chlistId": IntechlistName": String, "code": String, "index": Intege "symbol": String "feedCode": String "exchange": String "exchangeDispla" "market": String "counterID": String "string "isTradable": F "isTradable": F "isTradableMess "ask": String, "bid": String, "open": String, "low": String, "close": String, "close": String	cring,  er,  ng,  cing,  ing,  cing,  ay": String,  cring,  cring,  cring,  sage": String,					

# 2.2.6.3 Move Counters to another Watch list

Description: Move counters from one watch list to another FXInvest watch list and return updated watch list

Section	Component			
URI	NFX/watchlist/move			
Verb	POST			
Request Header	Refer to common request header parameter in HTTP Request			
	Refer to the common Parameter of POST request method in HTTP Request			
	Field	Description	Туре	
Request Body	counterIDs	Comma delimited list of counterIDs	String	
	fromWatchlistID	Source watch list	Integer	
	toWatchlistID	Destination watch list	Integer	
Parameters	Refer to the common Parameter of GET request method in HTTP Request			

roperty		Descript	ion	Туре
ode	Response code	Response code		
sg	Response messag	sponse message		
ata	Response data container			Object
	Property	Description		
	watchlistId	Watch list ID		Intege
	watchlistNam e	Watch list name		String
	counters	Watch list items		List
		Property	Description	
		name	Contract name	String
		code	Contract code	String
		index	Order number	Intege
		symbol	Contract symbol	String
		feedCode	Contract feed code	String
		product	Product name	String
		exchange	Exchange code	String
		exchangeDisplay	Exchange display	String
		market	Contract market	String
		counterID	Contract counter Id	String
		pmpTopic	PMP topic name	String
		isTradable	Flag, whether contract is allowed for conversion	Boolea
		isTradableMessage	Message is contract is not allowed for conversion  If isTradable is false, display this message	String
		ask	Ask Price	String
		bid	Bid price	String
		open	Open price	String
		high	High price	String
		low	Low price	String
		close	Previous close price	String
		time	Last update time	String
Result		CIME	Last upuate time	Sun

```
"index": Integer,
    "symbol": String,
    "feedCode": String,
    "product": String,
    "exchange": String,
    "exchangeDisplay": String,
    "market": String,
    "counterID": String,
    "pmpTopic": String,
    "isTradable": Boolean,
    "isTradableMessage": String,
    "ask": String,
    "bid": String,
    "open": String,
    "high": String,
    "low": String,
    "close": String,
" close ": String,
  },
]
```

#### 2.2.6.4 Sort Watch list

**Description**: Sort FXInvest watch list items and return the updated watchlist

#### Request:

Section	Component				
URI	NFX/watchlist/so	sort/{watchListID}			
	FXInvest watch list ID		ch list ID		
	watchListID	Constraint	regexp={[0-9]+}		
Verb	POST				
Request Header	Refer to common request header parameter in HTTP Request				
Refer to the common Parameter of POST request method in HTTP Reque			ST request method in HTTP Request		
Request Body	Field		Description	Туре	
	counterIDs	Sorted comma delimited list of counterIDs		String	
Parameters	Refer to the common Parameter of GET request method in HTTP Request				

Sort watch list response					
Property	Description				
code	Response code			Integer	
msg	Response message			String	
data	Response data container			Object	
	Property				
	watchlistId	Watch list ID		Integer	
	watchlistNam e Watch list name			String	
	counters	Watch list items	List		
		Property	Description		

name	Contract name	String
code	Contract code	String
index	Order number	Integer
symbol	Contract symbol	String
feedCode	Contract feed code	String
product	Product name	String
exchange	Exchange code	String
exchangeDisplay	Exchange display	String
market	Contract market	String
counterID	Contract counter Id	String
pmpTopic	PMP topic name	String
isTradable	Flag, whether contract is allowed for conversion	Boolean
isTradableMessage	Message is contract is not allowed for conversion  If isTradable is false, display this message	String
ask	Ask Price	String
bid	Bid price	String
open	Open price	String
high	High price	String
low	Low price	String
close	Previous close price	String
time	Last update time	String

```
"code": Integer,
"msg": String,
"data": {
  "watchlistId": Integer,
  "watchlistName": String,
  "counters": [
      "name": String,
      "code": String,
      "index": Integer,
      "symbol": String,
      "feedCode": String,
      "product": String,
      "exchange": String,
      "exchangeDisplay": String,
      "market": String,
      "counterID": String,
      "pmpTopic": String,
      "isTradable": Boolean,
      "isTradableMessage": String,
      "ask": String,
      "bid": String,
      "open": String,
      "high": String,
      "low": String,
      "close": String,
"close ": String,
```

```
},
...
1
}
```

#### 2.2.6.5 Validate Currency Ledger Balance

**Description:** Validate if the account has fund on currency ledger. This method can be called if Ask or Bid price is clicked from the watchlist before loading the Conversion Trade page.

#### Request:

Section	Component				
URI	NFX/conversion	NFX/conversion/validateledger?currency={currency}			
Verb	GET				
Request Header	Refer to common request header parameter in HTTP Request				
Request Body	N/A				
Parameters	Refer to the common Parameter of GET request method in HTTP Request				
	Field Description				
	Currency Currency				
		Eg: SGD, USD, JPY etc.			

#### Response:

Contains validation of ledger balance response

## **FXInvest Trading Info**

Property	Description	Туре
code	Response code	Integer
msg	Response message	String
hasAvailableFund	Flag if the account has available fund for the currency ledger	String
validationMessage	Validation message	String

## Result

```
"code": Integer,
"msg": String,
"hasAvailableFund": Booelan,
"validationMessage": String
```

## 2.2.6.6 Get FXInvest Trading Info

**Description:** Get FXInvest contract trading information

Section	Component
URI	NFX/conversion/tradeinfo?counterID={counterID}&currency={currency}

Verb	GET					
Request Header	Refer to common request header parameter in HTTP Request					
Request Body	N/A					
Parameters	Refer to the common Parameter of GET request method in HTTP Request					
	Field	Description				
	counterID	Contract counters Id				
		Format	<pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre>			
		Eg: NFX/NFX/NFX	K/EURUSD			
	currency	Currency 3 cha	aracters symbol			
		Eg:				
		For currency pair AUDSGD				
		If Bid price is tapped from watchlist, currency is AUD				
		If Ask price is tapped from watchlist, currency is SGD				

Response:				
Contains FXInvest trading in	nfo response.			
FXInvest Trading Info				
Property		Desci	ription	Туре
name	Contract name			String
symbol	Contract symbol			String
counterID	Contract counter ID			String
feedCode	Contract feed code			String
currency	Contract currency			String
pmpTopic	Contract PMP Topic			String
unitMultiplier	Contract unit multipli	er		Decimal
tickSize	Contract tick size			String
noOfDecimalsDisplay	Contract price decim	Contract price decimal limit		
askPrice	Contract static ask p	Contract static ask price		
bidPrice	Contract static bid pr	Contract static bid price		
	Contract order types			List
	Property		Description	
orderTypes	value		Order type ID	Integer
	text		Order type description	String
actions	Trade action  Action Type  1 - BUY 0 - SELL	Trade action  Action Type 1 - BUY		
accions	Property		Description	
	value	Action ID		Integer
	text Action description		String	
	List of currency ledger balances of the account			
ledgerBalances	Field Description		Туре	
	currency Currency		String	

	ledgerBalance	Currency Ledger Balance	String
	isTransactionA llowed	Flag whether the currency can transact for conversion	Boolean
	message	Message to be displayed if isTransactionAllowed flag is false	String
passwordRequired	Flag if password is re	equired for the account	Boolean
twoFARequired	Flag if the 2FA is req	uired for the account	Boolean
Result			
<pre>"code": Integer, "msg": String, "data": {     "name": String,     "symbol": String,     "counterID": String,     "counterID": String     "currency": String     "pmpTopic": String     "unitMultiplier":     "tickSize": String     "askPrice": String     "bidPrice": String     "orderTypes": [</pre>	g, g, g, pecimal, g, g, g, g, ger, ger,		

## 2.2.6.7 Validate Order

},

**Description**: Perform order validation for FXInvest

"currency": String,
"ledgerBalance": String,
"isTransactionAllowed": Boolean,

"ledgerBalance": [

"message": String

],
"passwordRequired": Boolean,
"indicate the second of th

Section	Component				
URI	/NFX/conversion/validate				
Verb	POST				
Request	Refer to the common request header parameter in HTTP Request				
Header	Field	Description	Туре		

	encryptedPIN	Encryp	Encrypted PIN String			
	Content-Type	applica	application/x-www-form-urlencoded String			
Request Body	Refer to the comm	non Parai	on Parameter of POST request method in HTTP Request			
	Property		Description		Туре	
		Trade action type				
	action	1	BUY action		Integer	
		0	SELL action			
		Order T	Order Type			
	orderType	pe 1 Market			Integer	
		2	Limit			
	price	Market	or Limit price		Decimal	
	fromCurrency	Currency to convert			String	
	fromAmount	Amoun	Amount to convert			
	toCurrency	Currency Currency converted				
	toAmount	Amount converted			Decimal	
	symbol	Contract symbol			String	
Parameters	N/A					

Validation response					
Property	Description	Туре			
code	Response code	Integer			
message	Response message	String			
data	Generated "auth-token" to be use to submit order	String			
Result					
<pre>{   "code": Integer,   "message": String,   "data": String }</pre>					

## 2.2.6.8 Submit Order

**Description**: Submit FXInvest conversion order

Section	Component							
URI	NFX/conversion	NFX/conversion						
Verb	POST	POST						
Request Header	Refer to the comm	non request header parameter in HTTP Request						
ricadei	Field	Description	Туре					
	encryptedPIN	Encrypted PIN	String					
	authToken	Authentication token retrieved from validation.	String					
	Content-Type	application/x-www-form-urlencoded						

Request Body	Refer to the common Parameter of POST request method in HTTP Request				
	Field	Description		Туре	
		Trade action type			
	action	1	BUY action	Integer	
		0	SELL action		
		Order Ty	ре		
	orderType	1	Market	Integer	
		2	Limit		
	price	Market or Limit price		Decimal	
	fromCurrency	Currency to convert		String	
	fromAmount	Amount to convert		Decimal	
	toCurrency	Currency converted		String	
	toAmount	Amount converted		Decimal	
	symbol	Contract symbol		String	
Parameters	N/A				

Order submission response		
Property	Description	Туре
code	Response code	Integer
msg	Response message	String
orderDetailURI	Order detail URI. This will be available if order is successfully submitted	String
passwordRequired	Flag if password is required for the account	Boolean
twoFARequired	Flag if the 2FA is required for the account	Boolean
Result		
<pre>{    "code": Integer,    "msg": String    "orderDetailURI": S    "passwordRequired":    "twoFARequired": Book }</pre>	Boolean,	

#### 2.2.6.9 Amend Order

**Description**: Perform amendment of FXInvest order. This action is only applicable for "Limit" order.

Section	Component				
URI	NFX/conversion	NFX/conversion/amend/{orderNo}			
	Field	Field Description Type			
	{orderNo}	Order number	Integer		
Verb	POST				
Request	Refer to the comr	non request header in <u>HTTP Request</u>			

Header	Field	Description	Туре	
	encryptedPIN	Encrypted PIN	String	
Request Body	Refer to the comm	Refer to the common Parameter of POST request method in HTTP Request		
	Field	Description	Туре	
	newPrice	Amended price	Decimal	
		•		
	toAmount	Amount converted	Decimal	

Amendment response				
Property	Description	Туре		
code	Response code	Integer		
msg	Response message	String		
passwordRequired	Flag if password is required for the account	Boolean		
twoFARequired	Flag if the 2FA is required for the account	Boolean		
Result				
<pre>"code": Integer, "msg": String, "passwordRequired": "twoFARequired": Bo }</pre>				

## 2.2.6.10 Withdraw Order

## **Description**:

## Request:

Section	Component				
URI	NFX/conversion/withdraw/{orderNo}				
	Field Description Type				
	{orderNo}	derNo} Order number Inte			Integer
Verb	POST				
	Refer to the common request header parameter in HTTP Request				
Request Header	Field Description Type				Туре
	encryptedPIN		Encrypted PIN		String
Request Body	N/A				
Parameters	N/A				

## Response:

Withdrawal response			
Property	Description	Туре	
Code	Response code	Integer	
Data	Response message	Boolean	
passwordRequired	Flag if password is required for the account	Boolean	

```
Result

{
    "code": Integer,
    "msg": String,
    "passwordRequired": Boolean,
    "twoFARequired": Boolean
}
```

## 2.2.7 Online Withdrawal

## 2.2.7.1 Get Online Withdrawal Ledger

**Description**: Get account ledger for online withdrawal

#### Request:

Section	Component
URI	NFX/onlinewithdrawal/funds
Verb	GET
Request Header	Refer to common request header parameter in HTTP Request
Request Body	N/A
Parameters	Refer to the common Parameter of GET request method in HTTP Request

#### Response:

Contains account ledgers for online withdrawal				
Property	Description			Туре
Code				
msg				
ledgers	List of ledgers			List
	Field	Desc	ription	
	currency	Ledger currency		String
	balance Ledger balance			String
		Indicator if the currency led Withdrawal or not	Boolean	
		Property	Description	
	withdrawable	True	Allowed to submit online withdrawal	-
		False	NOT allowed to submit online withdrawal	
D				

```
"message": String
},
...
],
"passwordRequired": Boolean,
"twoFARequired": Boolean
}
}
```

#### 2.2.7.2 Get Withdrawal Types

**Description**: Get the list of Withdrawal type used for Online Withdrawal

Request:

rtcqucst.					
Section	Component				
URI	NFX/onlinewith	NFX/onlinewithdrawal/withdrawaltype/{currency}			
	{currency}	{currency} Currency symbol (eg. USD, SGD etc) String			
Verb	GET				
Request Header	Refer to common request header parameter in HTTP Request				
Request Body	N/A				
Parameters	Refer to the comm	non Parameter of GET request method in HTTP Request			

#### Response:

```
List of Withdrawal types applicable per currency
                                                   Description
        Property
                                                                                            Type
code
                                                                                           Integer
                           Response code
id
                           Withdrawal type id.
                                                                                           Integer
display
                           Withdrawal Type display name.
                                                                                            String
Result
  "code": Integer,
  "data": [
       "id": Integer,
       "display": String
```

## 2.2.7.3 Get Online Withdrawal Important Notes

"id": Integer,
"display": String

**Description**: Get the Important Notes details for Online Withdrawal

Section	Component
URI	NFX/onlinewithdrawal/notes
Verb	GET
Request Header	Refer to common request header parameter in HTTP Request

Request Body	N/A
Parameters	Refer to the common Parameter of GET request method in HTTP Request

Contains the details of Online Withdrawal Important Notes				
Property Description				
Code	Response code	Integer		
data	Online Withdrawal Important Notes details	String		
Result				
<pre>{    "code": Integer,    "data": String }</pre>				

## 2.2.7.4 Get Online Withdrawal Terms and Conditions

**Description**: Get Online Withdrawal Terms and Conditions

#### Request:

Section	Component		
URI	NFX/onlinewithdrawal/terms		
Verb	GET		
Request Header	Refer to common request header parameter in HTTP Request		
Request Body	N/A		
Parameters	Refer to the common Parameter of GET request method in HTTP Request		

## Response:

```
Contains the details of Online Withdrawal Terms and Conditions

Property
Description
Type

Code Response code Integer

data Online Withdrawal Important Notes details

String

Result

{
  "code": Integer,
  "data": String
}
```

#### 2.2.7.5 Get Online Withdrawal Interest Rates

**Description**: Get the URL of Online Withdrawal Interest Rate

Section	Component			
URI	NFX/onlinewithdrawal/interestrate			
Verb	GET			
Request Header	Refer to common request header parameter in HTTP Request			
Request Body	N/A			

Parameters	Refer to the common Parameter of GET request method in HTTP Request
------------	---

Contains the URL of Online Withdrawal Interest Rate					
Property Description					
Code	Response code	Integer			
data	Online Withdrawal Important Notes details	String			
Result					
<pre>{    "code": Integer,    "data": String }</pre>					

#### 2.2.7.6 Get Bank List

Description: Get list of banks. This is only applicable for withdrawal type "Quick Cheque Deposit"

#### Request:

Section	Component			
URI	NFX/onlinewithdrawal/banks			
Verb	GET			
Request Header	Refer to common request header parameter in HTTP Request			
Request Body	N/A			
Parameters	Refer to the common Parameter of GET request method in HTTP Request			

#### Response:

#### 2.2.7.7 Get Phillip Group List

},

"code": String,
"displayName": String

**Description**: Get the list of Phillip Group accounts. This is only applicable for withdrawal type "Internal transfer within Phillip group"

Request:

Section	Component			
URI	NFX/onlinewithdrawal/phillipgroups			
Verb	GET			
Request Header	Refer to common request header parameter in HTTP Request			
Request Body	N/A			
Parameters	Refer to the common Parameter of GET request method in HTTP Request			

Response:

Property	Description	Туре
code	Group code.	String
displayName	Group Display name.	String
Result		
<pre>{    "code": Str    "displayNam }, {    "code": Str    "displayNam },</pre>	ne": String	

## 2.2.7.8 Validate Order

**Description**: Validate Online Withdrawal order

Section	Component					
URI	NFX/onlinewithdrawal/validate					
Verb	POST	POST				
Request Header	Refer to the comm	Refer to the common request header parameter in HTTP Request				
ricadei	Field	Description	Туре			
	encryptedPIN	Encrypted PIN	String			
	Content-Type	application/x-www-form-urlencoded	String			
Request Body	Refer to the common Parameter of POST request method in HTTP Request					
	Field	Description	Туре			
	currency Currency to be withdrawn.					

		Required	Yes		
		Total amoun			
	amountWithdrawn	Required	d Yes		
	withdrawalType	Withdrawal t	уре		
		Required	Yes	Integer	
	bankName	Bank name			
	bankAccountNo	Bank accour	t number	String	
	accountNo	Represents I	Phillip account	String	
	name	Represents a	account name	String	
	nricPassport	NRIC or Pas	sport	String	
	swiftCode	Swift code		String	
	beneficiary	Beneficiary r	ame	String	
ı	otherInfo	Represents of	other information	String	
	Withdrawal Type par	rameter mapp	withdrawal Option Form Fields		
	Parameter				
	Quick Cheque Depos	it			
	bankName	Bank Name			
	bankAccountNo	Bank A/C No			
	Cheque to be col				
	N/A.				
	Authorisation fo	r cheque collection			
	name	Name			
	nricPassport	NRIC/Pass	port No.		
	Internal transfe	r within Ph	nillip		
	accountNo	A/C No.			
	name	Name			
	Internal transfe	r with Phil	llip Group		
	accountNo	A/C No.			
	otherInfo	Others, p	lease specify		
	Remittance to ba	nk			
	bankName	Bank			
	bankAccountNo	A/C No.			
	swiftCode	Swift Code			
	beneficiary	Beneficiary			
	otherInfo		ormation(Eg:IBAN No, BIC Code, A Address etc.)	ABA No,	
Parameters	N/A				

iveshouse.		
Validation response		
Property	Description	Type

code	Response code	Integer		
message	String			
data	data Generated "auth-token" to be use to submit order			
confirmationMessage	Confirmation message	String		
note	Note message	String		
passwordRequired	Flag if password is required for the account	Boolean		
twoFARequired Flag if the 2FA is required for the account				
Result				
<pre>"code": Integer,    "msg": String,    "data": String,    "confirmationMessage": String,    "note": String,    "passwordRequired": Booelan,    "twoFARequired": Boolean</pre>				

## 2.2.7.9 Submit Order

**Description**: Submit Online Withdrawal order

Section	Component				
URI	NFX/onlinewithdrawal/				
Verb	POST				
Request Header	Refer to the common request header parameter in HTTP Request				
ricader	Field			Description	Туре
	encryptedPIN	Er	ncrypted PIN		String
	authToken	Αι	uthentication to	oken	String
	Content-Type	ар	plication/x-ww	w-form-urlencoded	String
Request Body	Refer to the comm	common Parameter of POST request method in HTTP Request			
	Field			Description	Туре
	currency		Currency to be withdrawn.		String
	currency		Required	Yes	
	amountWithdrawn		Total amount to withdraw		Decimal
			Required	Yes	Decimal
	withdrawalType		Withdrawal type		Integer
			Required	Yes	integer
	bankName		Bank name		String
	bankAccountNo		Bank account number		String
	accountNo		Represents Phillip account number		String
	name		Represents account name		String

	nricPassport	NRIC or Passport	String		
	swiftCode	Swift code	String		
	beneficiary	Beneficiary name	String		
	otherInfo	Represents other information	String		
	Withdrawal Type par	l Type parameter mapping			
	Parameter	Withdrawal Option Form Fields			
	Quick Cheque Deposit				
	bankName Bank Name				
	bankAccountNo Bank A/C No				
	Cheque to be col	lected personally			
	N/A.				
	Authorisation fo	r cheque collection			
	name	Name			
	nricPassport	Passport NRIC/Passport No.			
	Internal transfer within Phillip				
	accountNo	A/C No.			
	name	Name			
	Internal transfe	r with Phillip Group			
	accountNo	A/C No.			
	otherInfo	Others, please specify			
	Remittance to ba	nk			
	bankName	Bank			
	bankAccountNo	A/C No.			
	swiftCode	Swift Code			
	beneficiary	Beneficiary			
	otherInfo	Other Information(Eg:IBAN No, BIC Code, A Chips UID, Address etc.)	BA No,		
Parameters	N/A	-			

Contains the response for Online Withdrawal order submission **Property** Description Type Integer code Response code Boolean data Submission result passwordRequired Flag if password is required for the account Booelan twoFARequired Flag if the 2FA is required for the account Boolean

```
"code": Integer,
"msg": String
"passwordRequired": Boolean,
"twoFARequired": Boolean
}
```

## 2.2.8 Online Withdrawal / FXInvest Transaction History

## 2.2.8.1 Get Transaction History

**Description**: Get the list of FXInvest and Online Withdrawal order history by history type

#### Request:

Section	Component			
URI	NFX/history/{type}			
		History Type		
	type	Values	TD - Today's Order YD - Yesterday's Order CM - Current Month Order PM - Previous Month Order	
		Default	TD	
Verb	GET			
Request Header	Refer to common request header parameter in HTTP Request			
Request Body	N/A			
Parameters	Refer to the com	mon Parameter o	f GET request method in HTTP Request	

#### Response:

Contains the list of F	XInvest and Online Withdrawal o	rder history		
Property		Description		
code	Response code		Integer	
msg	Response message		String	
data	Response data container		Object	
fxInvest	List of FXInvest Order Histor	у	List	
	Field	Description		
	Symbol	Contract symbol	String	
	orderNo	Order number	String	
	Price	Order price	String	
	fromCurrency	From Currency (Amount Sold)	String	
	fromAmount	From Amount (Currency Sold)	String	
	toCurrency	To Currency (Bought Currency)	String	
	toAmount	To Amount (Bought Amount)	String	
	Status	Order status code	String	
	statusDescription	Order status description	String	
	statusColor	Status HEX color code	String	
	statusColorName	Status color name	String	
	orderType	Order type	String	
	orderTypeDescription	Order type Description	String	
	hasMultipleCurrency	This is for Online Withdrawal use only.	N/A	
	orderDetailURI	Order detail URI	String	

onlineWithdrawal	List of Online Withdrawal Orde	List	
	Field	Description	
	Symbol	Contract symbol	String
	orderNo	Order number	String
	Price	Order price  If the "hasMultipleCurrency" flag is true, value is ">>"	String
	fromCurrency	From Currency (Amount Sold)  This can be empty if the  "hasMultipleCurrency" is true.	String
	fromAmount	From Amount (Currency Sold)  This can be empty if the  "hasMultipleCurrency" is true.	String
	toCurrency	To Currency (Bought Currency)	String
	toAmount	To Amount (Bought Amount)	String
	Status	Order status code	String
	statusDescription	Order status description	String
	statusColor	Status HEX color code	String
	statusColorName	Status color name	String
	orderType	Withdrawal type option code	String
	orderTypeDescription	Withdrawal type optiondescription	String
	hasMultipleCurrency	Flag indicator if the Online Withdrawal has multiple currencies.  If true, the price should not be shown.	Boolean
	orderDetailURI	Order detail URI	String
passwordRequired	Flag if password is required fo	r the account	Booelan
twoFARequired	Flag if the 2FA is required for the account		Boolean

```
"code": Integer,
"data": {
  "fxInvest": [
      "symbol": String,
      "orderNo": String,
      "price": String,
"fromCurrency": String,
"fromAmount": String,
      "toCurrency": String,
      "toAmount": String,
      "status": String,
      "statusDescription": String,
      "statusColor": String,
      "statusColorName": String,
      "orderType": String,
      "orderTypeDescription": String,
      "orderDetailURI": String
    },
  "onlineWithdrawal": [
```

```
"symbol": String,
      "orderNo": String,
      "price": String,
      "fromCurrency": String,
      "fromAmount": String,
      "toCurrency": String,
      "toAmount": String,
      "status": String,
      "statusDescription": String,
      "statusColor": String,
      "statusColorName": String,
      "orderType": String,
      "orderTypeDescription": String,
      "hasMultipleCurrency": Boolean,
      "orderDetailURI": String
    } ,
 ],
"passwordRequired": Boolean,
"twoFARequired": Boolean
```

#### 2.2.8.2 Get FXInvest Order Detail

Description: Get the FXInvest order detail

#### Request:

Section	Component			
URI	NFX/conversion/{type}/{orderNo}			
		History Type		
	type	Values	TD - Today's Order YD - Yesterday's Order CM - Current Month Order PM - Previous Month Order	
		Default	TD	
	orderNo	Order number		
		Constraint	[0-9]+	
		Optional	No	
Verb	GET			
Request Header	Refer to common request header parameter in HTTP Request			
Request Body	N/A			
Parameters	Refer to the con	nmon Parameter o	f GET request method in HTTP Request	

#### Response:

Contains FXInvest order detail response				
Property	Description	Туре		
code	Response code	Integer		
data	Response data container	Object		
symbol	Order symbol	String		
orderNo	Order number	String		
price	Order price	String		
fromCurrency	From Currency (Amount Sold)	String		

fromAmount	From Amount (Currency S	String	
toCurrency	To Currency (Bought Curre	String	
toAmount	To Amount (Bought Amour	nt)	String
status	Order status code		String
statusDescription	Order status description		String
statusColor	Status HEX color code		String
statusColorName	Status color name		String
action	Order action		String
orderType	Order type code		String
orderTypeDescription	Order type description		String
tradeType	Trade type code		String
tradeTypeDescription	Trade type description		String
transactionDateTime	Last transaction date/time		String
unitMultiplier	Contract unit multiplier	Decimal	
noOfDecimalsDisplay	Contract price decimal limit		Integer
orderDetailURI	Order detail URI		String
amendURI	Amend URI		String
withdrawURI	Withdraw URI		String
historyLog	Order History Log		List
	Field	Description	
	status	Order status code	String
	statusDescription	Order status description	String
	statusColor	Status HEX color code	String
	statusColorName	Status color name	String
	price Executed price quantity Executed quantity		String
			String
	transactionDateTime Transaction date/time		String
	message Message/Remarks		String
passwordRequired	Flag if password is required for the account		Booelan
twoFARequired	Flag if the 2FA is required for the account		Boolean

```
"code": Integer,
"data": {
    "symbol": String,
    "orderNo": String,
    "price": String,
    "fromCurrency": String,
    "fromAmount": String,
    "toCurrency": String,
    "toAmount": String,
    "status": String,
    "status String,
    "action": String,
```

```
"orderType": String,
"orderTypeDescription": String,
"tradeType": String,
"tradeTypeDescription": String,
"transactionDateTime": String,
"noOfDecimalsDisplay": Integer,
"orderDetailURI": String,
"amendURI": String,
"withdrawURI": String,
"historyLog": [
  {
    "status": String,
    "statusDescription": String,
    "statusColor": String,
    "statusColorName": String,
    "price": String,
    "quantity": String,
    "transactionDateTime": String,
    "message": String
 },
  . . .
"passwordRequired": Boolean,
"twoFARequired": Boolean
```

#### 2.2.8.3 Get Online Withdrawal Order Detail

Description: Get the Online Withdrawal order detail

#### Request:

Section	Component			
URI	NFX/onlinewithdrawal/{type}/{orderNo}			
		History Type		
	type	Values	TD - Today's Order YD - Yesterday's Order CM - Current Month Order PM - Previous Month Order	
	orderNo	Order number		
		Constraint	[0-9]+	
		Optional	No	
Verb	GET			
Request Header	Refer to common request header parameter in HTTP Request			
Request Body	N/A			
Parameters	Refer to the com	mon Parameter o	f GET request method in <u>HTTP Request</u>	

#### Response:

Contains Online Withdrawal order detail response				
Property Description Type				
code	Response code	Integer		
msg	Response message	String		
data	Response data container	Object		
orderNo	Order number	String		
totalAmountWithdrawn	Total withdrawn amount	String		

conversion	List of currencies submitted for Online Withdrawal with converted to other currency		List
	Field	Description	
	fromCurrency	From Currency	String
	fromAmount	From Amount	String
	toCurrency	To Currency	String
	toAmount	To Amount	String
	rate	Exchange rate	String
status	Order status coo	le	String
statusDescription	Order status des	scription	String
statusColor	Status HEX colo	r code	String
statusColorName	Status color nan	ne	String
withdrawalType	Withdrawal type	code	String
withdrawalTypeDescription	Withdrawal type	description	String
bankName	Represents bank	k name	String
accountNo	Represents Ban	k account or Phillip account	String
name	Represents nam	ne	String
nricPassport	NRIC or Passport		String
swiftCode	Swift code		String
beneficiary	Beneficiary name		String
otherInfo	Represents other information		String
remarks	Remarks		String
transactionDateTime	Order transaction date/time		String
orderDetailURI	Order detail URI		String
passwordRequired	Flag if password	is required for the account	Boolean
twoFARequired	Flag if the 2FA is	s required for the account	Boolean
Field mapping for each Withdrawal	Туре		
Quick Cheque Deposit			
bankName	Bank Name		
accountNo	A/C No		
Cheque to be collected person	nally		
N/A			
Authorisation for cheque col	lection		
name	Name		
nricPassport	NRIC/Passport		
Internal transfer within Phillip			
accountNo	A/C		
name	Name		
Internal transfer with Phill	ip Group		
accountNo	A/C No		

otherInfo	Other Information
Remittance to bank	
bankName	Bank name
accountNo	A/C No
swiftCode	Swift Code
beneficiary	Beneficiary
otherInfo	Other Information

```
"code": Integer,
"data": {
  "orderNo": String,
  "totalAmountWithdrawn": String,
  "conversion": [
   {
      "fromCurrency": String,
      "fromAmount": String,
      "toCurrency": String,
      "toAmount": String,
      "rate": String
    },
 ],
  "status": String,
  "statusDescription": String,
  "statusColor": String,
  "statusColorName": String,
  "withdrawalType": String,
  "withdrawalTypeDescription": String,
  "bankName": String,
  "accountNo": String,
 "name": String,
"nricPassport": String,
  "swiftCode": String,
  "beneficiary": String,
  "otherInfo": String,
  "remarks": String,
  "transactionDateTime": String,
  "orderDetailURI": String,
  "passwordRequired": Boolean,
  "twoFARequired": Booelan
```

## 2.3 Description of Stored Procedures used

N/A

## III. Input/Output files used

- 3.1 Input/Output file format design (with Samples attached)
- 3.2 Database connections used

# IV. Error Message/Warning Message List

## V. Archival and Record Retention List1

Type of Records Retained	Period of Retention (*from the time when the files are created or used by the application/ system)	Where Doc Retained (i) electronic (indicate system e.g. docuware / shared drive – indicate location) (ii) Warehouse (indicate service provider e.g. Crown)	Indexing (e.g. MM/YY, By client's name- Alphabetic order by surname)

Note<sup>1</sup>: Sample is given in Appendix 1.

# VI. Program List

# VII. Acceptance Form

Project Name :	
Document Name :	
Company Name :	
Project Manager :	
Designation :	
Signature/Date:	

## Appendix 1

Type of Records Retained	Period of Retention (*from the time when the files are created or used by the application/ system)	Where Doc Retained  (i) electronic  (indicate system e.g. docuware / shared drive – indicate location)  (ii) Warehouse  (indicate service provider e.g. Crown)	Indexing (e.g. MM/YY, By system Module and submodule name)
File lists/description of transaction related audit log:  File Name/Description 1 File Name/Description 2 File Name/Description n	7 years	<ol> <li>Log files less than X year is stored in:         ServerName\Path\</li> <li>Log files more than X year are stored in:         XX<sup>1</sup></li> </ol>	System/Module/sub module/YYYYMMDD.log
File lists/description of Non-transaction audit logs:  File Name/Description 1  File Name/Description 2  File Name/Description n	5 years	<ul> <li>1.Log files less than <b>X</b> year is stored in:</li> <li>ServerName\Path\</li> <li>2. Log files more than <b>X</b> years are stored in:</li> <li>XX<sup>1</sup></li> </ul>	Module/sub module /YYYYMMDD.log
File lists/description of Data file, report generated/used by the application/system:  File Name/Description 1 File Name/Description 2 File Name/Description n	5 years	1. Log files less than <b>X</b> year year are stored in ServerName\Path\  2. Log files more than <b>X</b> year are stored in XX <sup>1</sup>	YYYYMMDD.log

<sup>&</sup>lt;sup>1</sup> Location example: CD, Avamar, Log-Bk Server Avamar (Replicate to the DR Avamar), Tape