# FX-₹etail HUB Configuration

## Introduction

## Configuration

1. Get the following files from the ClearCorp IT team
   1. FXhub.war
   2. FXhub.bat
2. Create a folder structure for the above files as indicated below
   1. ***C:\FXRetailApplication\Exe\FXhub\ FXhub.war***
   2. ***C:\FXRetailApplication\Batch Files\ FXhub.bat***
3. Create a folder structure for PFX and CER certificates
   1. ***C:\FXRetailApplication\FXhub\PKI\*** *-- Inside this folder, have the private key (.pfx) file of the Hub and public key (.cer) of the PI*
   2. ***C:\FXRetailApplication\{APIKey of BIS1}\CER*** *-- Inside this folder, have the public key (.cer) of the First BIS*
   3. *Likewise, for multiple BIS connected have different folders and their respective public key (.cer) of the respective BIS*
4. Create the following system environmental variables in the HUB

|  |  |  |  |
| --- | --- | --- | --- |
| S.No | Variable Name | Sample Value | Description |
| 1 | ccilfx.hub.host | csmdult064.chellasoft.com | Indicates the HUB IP address/Hostname |
| 2 | ccilfx.hub.port | 8026 | Indicates the HUB port |
|  | ccilfx.hub.protocol | HTTP | Specifies the communication protocol to be used when transferring messages from HUB to BIS and HUB to PI. It should be **HTTP** |
| 3 | ccilfx.hub.participant | CCBPHDFC0005 | Specifies the participant Id assigned by RFE.  **For banks:** Specify the CCIL Membership Id  **For Customers:** Specify the Customer Id generated by RFE. |
| 4 | ccilfx.hub.CERDirectory | C:\FXRetailApplication\API\PKI\ | Specifies the file path of the PI public key |
| 5 | ccilfx.hub.PFXDirectory | C:\FXRetailApplication\API\PKI\ | Specifies the file path of the HUB private key |
| 6 | ccilfx.hub.PFXPassword | hW86CxzIxqbujs38Eu279Q== | Specifies the encrypted password of the HUB private key file |
| 7 | ccilfx.hub.queuedMessageLocation | C:\FXRetail\HUB\MessageLog | Specifies the file path where the HUB message log is written. |
| 8 | ccilfx.hub.pi.host | 172.19.103.98 | Specifies the PI’s hostname/ IP address. |
| 9 | ccilfx.hub.pi.port | 8025 | Specifies the PI listening port |
| 10 | ccilfx.hub.pi.rest.protocol | http | Required to be filled as the chosen hub protocol is HTTP. The possible values can be either http or https |
| 11 | ccilfx.hub.pi.encryptionRequired | true | This is to enable/disable the encryption/digital signature authentication process for the message transmission between HUB and PI. The values should be either  **true** or **false** |
| 12 | ccilfx.hub.bis.CBSConnectivityDetails | Trades#BIS1#csmdult064.chellasoft.com#8027#D:/CCIL\_FXRetail/Certificates/CER;Limits#BIS1#csmdult064.chellasoft.com#8027#D:/CCIL\_FXRetail/Certificates/CER;CustomerApproval#BIS2#csmdult139.chellasoft.com#443#D:/CCIL\_FXRetail/Certificates/CB\_CER\_139;Swapquotes#BIS1#csmdult064.chellasoft.com#8027#D:/CCIL\_FXRetail/Certificates/CER;Markup#BIS1#csmdult064.chellasoft.com#8027#D:/CCIL\_FXRetail/Certificates/CER | Specifies the Hub to multiple BIS connectivity details.  Should contain 5 BIS details for each message types separated by semicolon(;).  Each BIS details should 1.message type, 2.APIkey, 3.Hostname, 4.port number, 5.Certificatepath separated by hash(#). Must be above mentioned order. |
| 13 | ccilfx.hub.bis.rest.protocol | http | Required to be filled when the chosen Hub protocol is HTTP. The possible values can be either http or https |
| 14 | ccilfx.hub.bis.encryptionRequired | true | This is to enable/disable the encryption/digital signature authentication process for the message transmission between HUB and BIS. The values should be either  **true** or **false** |

1. To get the encrypted value of the password of HUB private key file, run the following command in Participant Interface war location,

*C:\FXRetailApplication\Exe\ParticipantInterface>java -jar ParticipantInterface.war crypto abc@123*

Where, in place of **abc@123** specify the actual password

1. You will get the encrypted value as shown below



1. Kindly ensure that the encrypted password is specified as a value for the environmental variable (ccilfx.hub.PFXPassword)
2. As a final step, we need to run the HUB application. To do this, just double click on the **FXHub.bat** received from ClearCorp.
3. Now, ensure that HUB is connected to the Participant Interface application.