

## Hi-MTF Technical Guidelines for Hi-Cert Segment

Please find below the guidelines regarding Hi-Cert, the new Hi-Mtf's Market Segment for Certificates and Covered Warrant. They refer to either the Fix Protocol or the FT-API Protocol to be used by all kind of market participants:

- Liquidity Provider
- Price Taker (Order Flow Provider)
- Infopvider

### FIX Protocol

In this section the typical fields of Hi-Cert Market Segment are described together with all the documentation available on our private website section.

#### **Message New Order (Type D) Price Taker**

TAG100 ExDestination:	It is the Execution destination. It can take the following values: <ul style="list-style-type: none"> <li>• HCER = MICcode Hi-Cert Segment</li> </ul>
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#### Client Identification:

In the new order message with Order Capacity = I, the client identification is **mandatory**. The Client Id is transmitted in the following tags:

- FIX 4.4: Tag 448 PartyID, with Tag 452 PartyRole = 3

It must contain a shortcode that uniquely identifies the client.

#### **Message New Quote (Type S) Liquidity Provider**

TAG100 ExDestination:	It is the Execution destination. Can take the following values: <ul style="list-style-type: none"> <li>• HCER = MICcode Hi-Cert Segment</li> </ul>
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#### **Message Security Definition (Type d)**

TAG336 TradingSessionID:	It includes the segment in which the security is listed. It can take the following values: <ul style="list-style-type: none"> <li>• CERT = Hi-Cert Segment</li> </ul>
TAG58 Text:	It includes information on settlement related to the security. It can take the following values: <ul style="list-style-type: none"> <li>• MAN → manual settlement</li> <li>• MT-BIL → bilateral automated settlement T2S</li> <li>• CE-DPB → bilateral automated settlement Euroclear/ClearStream</li> </ul>

**List of documents available to develop the access to the Hi-Cert Market Segment using the Fix Protocol:**

- *Hi-Cert\_Fix\_Developer\_Notes:*  
practical guide for ISVs of Participant (Liquidity Provider, Price Taker and Infoprovider)
- *FTX-FIX\_Hi-MTF\_Messages\_Requirements\_Certificates:*  
technical specifications for trading on the new segment Hi-Cert (Liquidity Provider and Price Taker) and market data distribution (Liquidity Provider, Price Taker and Infoprovider)
- *FTX-FIX\_Messages\_Requirements\_DealCapture:*  
technical specifications for deal capture on the new segment Hi-Cert (Liquidity Provider and Price Taker)
- *FTX-FIX\_Hi-MTF\_Messages\_Requirements:*  
complete technical specifications for the access to the Hi-MTF platform (Liquidity Provider, Price Taker and Infoprovider)
- *Hi-Cert\_AuthorizationWorkflow:*  
technical specifications relating to the layouts for massive listing / update / delisting of certificates and description of the authorization workflow (only for Issuers)
- *Description File FTP.zip:*  
technical specifications relating to the layouts referred to:
  - List of securities tradable on the market – “File Security Definition” (Liquidity Provider, Price Taker and Infoprovider)
  - Statistics – “File Statistics” (Liquidity Provider, Price Taker and Infoprovider)
  - List of trades – “Dettaglio eseguiti” (Liquidity Provider and Price Taker)
  - List of orders – “Dettaglio ordini” (Liquidity Provider and Price Taker)

## FT API Protocol

In this section the typical fields of Hi-Cert Market Segment are described together with all the documentation available on our private website section.

### **Message FT\_C\_ORDER**

Client.Origin	Order capacity. Valid values: <ul style="list-style-type: none"> <li>• 1: Client</li> <li>• 2: Proprietary</li> </ul>
ClientID:	Shortcode that uniquely identifies the client. The Client Identifier is mandatory in case Client.Origin = 1.

### **Message FT\_C\_SECURITY**

ExchangeID:	It can take the following values: <ul style="list-style-type: none"> <li>• HIMTF = Hi-Mtf Market</li> </ul>
MarketID:	It can take the following values: <ul style="list-style-type: none"> <li>• CERT = Hi-Cert Market</li> </ul>
SectionID:	It can take the following values: <ul style="list-style-type: none"> <li>• CERT = Hi-Cert Segment</li> </ul>
SettlGroupID	It includes information on settlement related to the security. Can take the following values: <ul style="list-style-type: none"> <li>• MAN → manual settlement</li> <li>• MT-BIL → bilateral automated settlement T2S</li> <li>• CE-DPB → bilateral automated settlement Euroclear/ClearStream</li> </ul>

### **Message FT\_C\_FILL**

MrkOperatorID:	It can take the following values: <ul style="list-style-type: none"> <li>• "C" = the trade counterpart is "third accounts"</li> <li>• "P" = the trade counterpart is "Proprietary"</li> </ul>
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### **List of documents available to develop the access to the Hi-Cert Market Segment using the FT-API Protocol:**

- *Hi-Cert\_FT-API\_Developer\_Notes:*  
practical guide for ISVs of Participants (Liquidity Provider, Price Taker and Infopvider)
- *FastTrade\_API\_3.1.46:*  
complete technical specifications for the access to the Hi-MTF platform (Liquidity Provider, Price Taker and Infopvider)

- *Hi-Cert\_AuthorizationWorkflow:*  
technical specifications relating to the layouts for massive listing / update / delisting of certificates and description of the authorization workflow (only for Issuers)
- *Description File FTP.zip:*  
technical specifications relating to the layouts referred to:
  - List of securities tradable on the market – “File Security Definition” (Liquidity Provider, Price Taker and Infoprovider)
  - Statistics – “File Statistics” (Liquidity Provider, Price Taker and Infoprovider)
  - List of trades – “Dettaglio eseguiti” (Liquidity Provider and Price Taker)
  - List of orders – “Dettaglio ordini” (Liquidity Provider and Price Taker)