

# FIX Protocol with C++ (FXCM Sample Program)

## FIX API links:

General information:

<https://www.investopedia.com/terms/f/financial-information-exchange.asp>

<https://www.fixtrading.org/implementation-guide>

FXCM Github page about FIX:

<https://github.com/fxcm/fixapi>

Example projects:

<https://github.com/fxcm/FIXAPI/tree/master/Sample%20Projects>

FIX Specification – please always refer to this document, if you need details about fields, tags and values

<https://apiwiki.fxcorporate.com/api/fix/docs/FXCM-FIX-BSI.pdf>

FXCM data dictionary that contains FXCM unique tag starting from 9000:

<https://apiwiki.fxcorporate.com/api/fix/docs/FIXFXCM10.xml>

CFD Product guide:

<https://docs.fxcorporate.com/user-guide/ug-cfd-product-guide-ltd-en.pdf>

For C++ we recommend using Visual Studio by Microsoft:

<https://visualstudio.microsoft.com/downloads/>

Our sample code is available here:

[https://github.com/fxcm/FIXAPI/blob/master/Sample%20Projects/fix\\_example\\_x64.7z](https://github.com/fxcm/FIXAPI/blob/master/Sample%20Projects/fix_example_x64.7z)

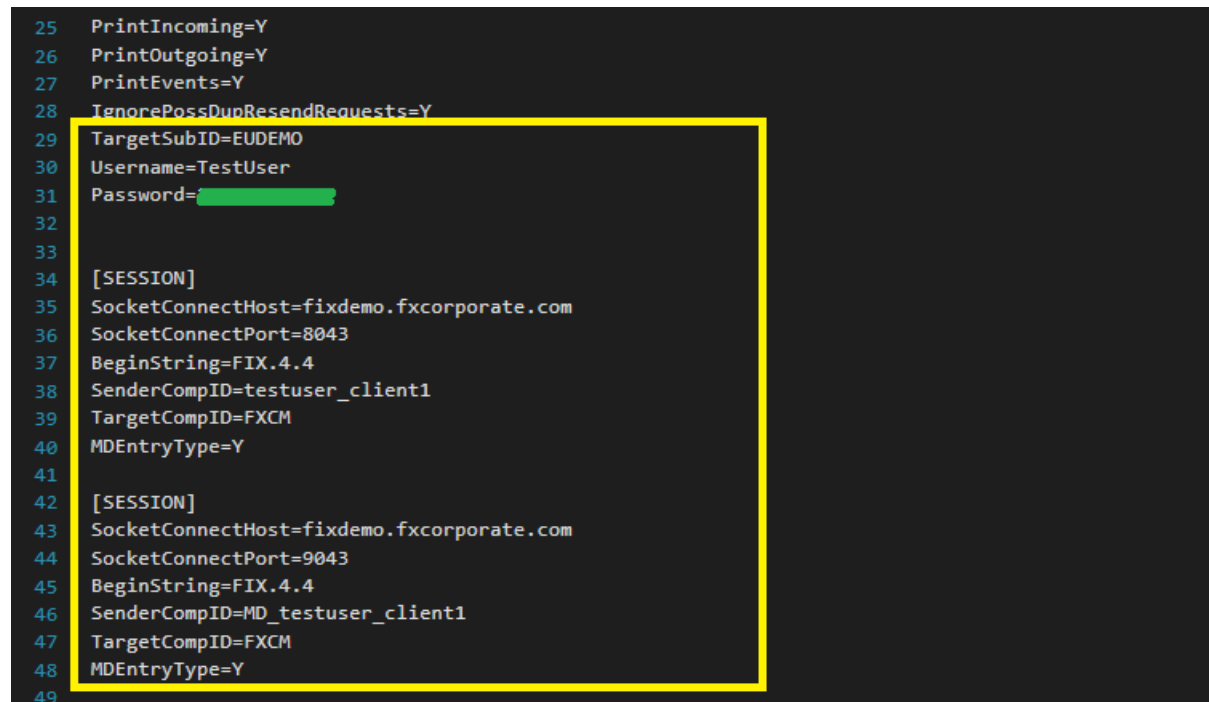
## Configuration, connection and a few quick tests

For using FIX you need to get credentials, which are issued by FXCM – separate for trading session and for market data session.

When you download the example code you don't need to install anything – it is ready to use after unzipping.

You can open by double clicking on the solution file (fix\_example.sln) and choose Visual Studio as default opening program if prompted.

Before connecting you need to update the configuration settings, which are in 'settings.cfg' file. What you change here is inside the yellow box in the screenshot below. Basically it's just your username and password plus some parameters that you get from your FXCM FIX credentials.



```
25 PrintIncoming=Y
26 PrintOutgoing=Y
27 PrintEvents=Y
28 IgnorePossDupResendRequests=Y
29 TargetSubID=EUDemo
30 Username=TestUser
31 Password=
32
33
34 [SESSION]
35 SocketConnectHost=fixdemo.fxcorporate.com
36 SocketConnectPort=8043
37 BeginString=FIX.4.4
38 SenderCompID=testuser_client1
39 TargetCompID=FXCM
40 MDEntryType=Y
41
42 [SESSION]
43 SocketConnectHost=fixdemo.fxcorporate.com
44 SocketConnectPort=9043
45 BeginString=FIX.4.4
46 SenderCompID=MD_testuser_client1
47 TargetCompID=FXCM
48 MDEntryType=Y
49
```

If everything is entered correctly, you should be able to login and see some reports related to your account. In order to do this, you need to choose 'Debug' menu then 'Start Debugging' or simply press F5 key.

The program is built, which can take a few moments and then a terminal window should appear.

```
Session -> created
Session -> created
Session -> logon
Session -> logon
TradingSessionStatus -> TradSesStatus -2
SecurityList via TradingSessionStatus ->
Symbol -> ACA.fr
Symbol -> JD.hk
Symbol -> EUR/CAD
Symbol -> USD/ZAR
Symbol -> PING.hk
Symbol -> UBER.us
Symbol -> SMIC.hk
Symbol -> QAN.au
Symbol -> BEKE.us
Symbol -> EUR/TRY
Symbol -> BNGO.us
Symbol -> PDD.us
Symbol -> AMZN.us
Symbol -> COIN.us
Symbol -> NVDA.us
Symbol -> NAS100
Symbol -> DIS.us
Symbol -> MCD.us
Symbol -> VOLX
Symbol -> ZM.us
```

As you can see it starts with creating sessions (Trading and Market data), logon for both, then trading session status check (value 2 meaning open, while 3 would mean closed) and after this the symbols you are subscribed for in Trading Station.

Then you can do a few quick tests of the functions that you see in main.cpp plus file:

- Get open positions by entering 1 in the terminal:

```
1
RequestForPositionsAck -> PosReqID - 8
PositionReport ->
Account -> 01260808
Symbol -> EUR/USD
PositionID -> 175606221
Open Time -> 20210901-16:41:47.000
```

- Subscribe for real-time market data updates by entering 2
- Unsubscribe with 3

```

2
MarketDataSnapshotFullRefresh -> Symbol - EUR/USD Bid - 1.1844 Ask - 1.18454
MarketDataSnapshotFullRefresh -> Symbol - EUR/USD Bid - 1.1844 Ask - 1.18453
MarketDataSnapshotFullRefresh -> Symbol - EUR/USD Bid - 1.18439 Ask - 1.18453
MarketDataSnapshotFullRefresh -> Symbol - EUR/USD Bid - 1.18439 Ask - 1.18452
MarketDataSnapshotFullRefresh -> Symbol - EUR/USD Bid - 1.18438 Ask - 1.18451
MarketDataSnapshotFullRefresh -> Symbol - EUR/USD Bid - 1.18438 Ask - 1.18449
MarketDataSnapshotFullRefresh -> Symbol - EUR/USD Bid - 1.18439 Ask - 1.18449
MarketDataSnapshotFullRefresh -> Symbol - EUR/USD Bid - 1.18438 Ask - 1.18449
MarketDataSnapshotFullRefresh -> Symbol - EUR/USD Bid - 1.18438 Ask - 1.1845
MarketDataSnapshotFullRefresh -> Symbol - EUR/USD Bid - 1.18439 Ask - 1.18451
MarketDataSnapshotFullRefresh -> Symbol - EUR/USD Bid - 1.18439 Ask - 1.18452
3

```

- 4 is for Market order that is executed immediately. In the example it is for buying 10K EUR/USD, and it would be executed for each account associated with this username.

```

4
ExecutionReport ->
  ClOrdID -> 6
  Account -> 01260808
  OrderID -> 380215197
  LastQty -> 0
  CumQty -> 0
  ExecType -> 0
  OrdStatus -> 0
ExecutionReport ->
  ClOrdID -> 6
  Account -> 01260808
  OrderID -> 380215197
  LastQty -> 10000
  CumQty -> 10000
  ExecType -> F
  OrdStatus -> 7
ExecutionReport ->
  ClOrdID -> 6
  Account -> 01260808
  OrderID -> 380215197
  LastQty -> 10000
  CumQty -> 10000
  ExecType -> F
  OrdStatus -> 2

```

- 5 – getting closed positions:

```
5
RequestForPositionsAck -> PosReqID - 6
PositionReport ->
  Account -> 01260808
  Symbol -> EUR/USD
  PositionID -> 175691156
  Open Time -> 20210903-20:15:23.000
PositionReport ->
  Account -> 01260808
  Symbol -> EUR/USD
  PositionID -> 175691132
  Open Time -> 20210903-20:14:50.000
PositionReport ->
  Account -> 01260808
  Symbol -> EUR/USD
  PositionID -> 175680076
  Open Time -> 20210906-03:28:50.000
```

- Creating stop order with 6 and limit order with 7:

```
6
ExecutionReport ->
  ClOrdID -> 5
  Account -> 01260808
  OrderID -> 380450954
  LastQty -> 0
  CumQty -> 0
  ExecType -> 0
  OrdStatus -> 0
7
ExecutionReport ->
  ClOrdID -> 6
  Account -> 01260808
  OrderID -> 380450957
  LastQty -> 0
  CumQty -> 0
  ExecType -> 0
  OrdStatus -> 0
```

- Checking waiting orders that have yet to be filled with 8:

```
8
ExecutionReport ->
  ClOrdID -> 5
  Account -> 01260808
  OrderID -> 380450954
  LastQty -> 0
  CumQty -> 0
  ExecType -> I
  OrdStatus -> 0
ExecutionReport ->
  ClOrdID -> 6
  Account -> 01260808
  OrderID -> 380450957
  LastQty -> 0
  CumQty -> 0
  ExecType -> I
  OrdStatus -> 0
```

- Canceling order with 9 and entering order ID:

```
9
Enter Order ID to be canceled: 380450957
ExecutionReport ->
  ClOrdID -> 8
  Account -> 01260808
  OrderID -> 380450957
  LastQty -> 0
  CumQty -> 0
  ExecType -> 6
  OrdStatus -> 6
ExecutionReport ->
  ClOrdID -> 8
  Account -> 01260808
  OrderID -> 380450957
  LastQty -> 0
  CumQty -> 0
  ExecType -> 4
  OrdStatus -> 4
8
ExecutionReport ->
  ClOrdID -> 5
  Account -> 01260808
  OrderID -> 380450954
  LastQty -> 0
  CumQty -> 0
  ExecType -> I
  OrdStatus -> 0
```

## More details about the code

All the functions available in 'main.cpp' are defined in 'fix\_application.cpp'.

The first one that is called upon starting the program is StartSession(). It is where your configuration settings are loaded, validated and login is initiated.

```
262
263 // Starts the FIX session. Throws FIX::ConfigError exception if our configuration settings
264 // do not pass validation required to construct SessionSettings
265 void FixApplication::StartSession()
266 {
267     try{
268         settings      = new SessionSettings("settings.cfg");
269         store_factory = new FileStoreFactory(* settings);
270         log_factory   = new FileLogFactory(* settings);
271         initiator     = new SocketInitiator(* this, * store_factory, * settings, * log_factory/*Optional*/);
272         initiator->start();
273     }catch(ConfigError error){
274         cout << error.what() << endl;
275     }
276 }
```

And of course once you decide to end your session by entering 0 in the console EndSession() function is called

```
278 // Logout and end session
279 void FixApplication::EndSession()
280 {
281     initiator->stop();
282     delete initiator;
283     delete settings;
284     delete store_factory;
285     delete log_factory;
286 }
```

**Getting current open positions** – function is GetPositions() and it requests info about open positions for all accounts associated with the login.

```
313 // Sends RequestForPositions which will return PositionReport messages if positions
314 // matching the requested criteria exist; otherwise, a RequestForPositionsAck will be
315 // sent with the acknowledgement that no positions exist. In our example, we request
316 // positions for all accounts under our login
317 void FixApplication::GetPositions(int PosReqType_)
318 {
319     // Here we will get positions for each account under our login. To do this,
320     // we will send a RequestForPositions message that contains the accountID
321     // associated with our request. For each account in our list, we send
322     // RequestForPositions.
323     int total_accounts = (int)list_accountID.size();
324     for(int i = 0; i < total_accounts; i++){
325         string accountID = list_accountID.at(i);
326         // Set default fields
327         FIX44::RequestForPositions request;
328         request.setField(PosReqID(NextRequestID()));
329         request.setField(PosReqType(PosReqType_));
330         // AccountID for the request. This must be set for routing purposes. We must
331         // also set the Parties AccountID field in the NoPartySubIDs group
332         request.setField(Account(accountID));
333         request.setField(SubscriptionRequestType(SubscriptionRequestType_SNAPSHOT));
334         request.setField(AccountType(
335             AccountType_ACCOUNT_IS_CARRIED_ON_NON_CUSTOMER_SIDE_OF_BOOKS_AND_IS_CROSS_MARGINED));
336         request.setField(TransactTime());
337         request.setField(ClearingBusinessDate());
338         request.setField(TradingSessionID("FXCM"));
339         // Set NoPartyIDs group. These values are always as seen below
340         request.setField(NoPartyIDs(1));
341         FIX44::RequestForPositions::NoPartyIDs parties_group;
342         parties_group.setField(PartyID("FXCM ID"));
343         parties_group.setField(PartyIDSource('D'));
344         parties_group.setField(PartyRole(3));
345         parties_group.setField(NoPartySubIDs(1));
346         // Set NoPartySubIDs group
347         FIX44::RequestForPositions::NoPartyIDs::NoPartySubIDs sub_parties;
348         sub_parties.setField(PartySubIDType(PartySubIDType_SECURITIES_ACCOUNT_NUMBER));
349         // Set Parties AccountID
350         sub_parties.setField(PartySubID(accountID));
351         // Add NoPartySubIDs group
352         parties_group.addGroup(sub_parties);
353         // Add NoPartyIDs group
354         request.addGroup(parties_group);
355         // Send request
356         Session::sendToTarget(request, sessionID(false));
357     }
```

A few fields to mention here:

- PosReqType – if the set value is PosReqType\_POSITIONS (which is 0), it would request open positions only. For closed positions it should have value of 1, or in the example it would be PosReqType\_TRADES. Here are all options:

```
1194 const int PosReqType_POSITIONS = 0;
1195 const int PosReqType_BACKOUT_MESSAGE = 5;
1196 const int PosReqType_DELTA_POSITIONS = 6;
1197 const int PosReqType_SETTLEMENT_ACTIVITY = 4;
1198 const int PosReqType_TRADES = 1;
1199 const int PosReqType_EXERCISES = 2;
1200 const int PosReqType_ASSIGNMENTS = 3;
```



- SubscriptionRequestType – except SubscriptionRequestType\_SNAPSHOT for which the value is '0' (as a char and not integer), other options are SubscriptionRequestType\_SNAPSHOT ('1') and SubscriptionRequestType\_DISABLE\_PREVIOUS\_SNAPSHOT\_PLUS\_UPDATE\_REQUEST ('2')
- AccountType – please don't change its current value
- ClearingBusinessDate – please don't set any value here

**Getting closed positions** – option 5 in main.cpp file is pretty similar to getting open positions. It is using GetPositions() function again with just PosReqType set to PosReqType\_TRADES instead of PosReqType\_POSITIONS

```

24  switch(command){
25  case 0: // Exit example application
26      exit = true;
27      break;
28  case 1: // Get positions
29      app.GetPositions(PosReqType_POSITIONS);
30      break;
31  case 2: // Subscribe to market data
32      app.SubscribeMarketData();
33      break;
34  case 3: // Unsubscribe to market data
35      app.UnsubscribeMarketData();
36      break;
37  case 4: // Send market order
38      app.MarketOrder();
39      break;
40  case 5: // Get closed positions
41      app.GetPositions(PosReqType_TRADES);
42      break;
43  case 6: // Stop order
44      app.StopOrder();

```

You can also check some more fields related to closed positions request on page 52 of our FIX specification manual.

**Subscribing and unsubscribing for market data** – as you can see in our example it's for EUR/USD and USD/CAD, but can be any instrument that you have subscribed for in Trading Station.

- SubscriptionRequestType is the parameter that is making the difference between subscribe and unsubscribe, as you would notice from the snippets below in first case we have SubscriptionRequestType\_SNAPSHOT\_PLUS\_UPDATES, while in second case we have SubscriptionRequestType\_DISABLE\_PREVIOUS\_SNAPSHOT\_PLUS\_UPDATE\_REQUEST Another option is SubscriptionRequestType\_SNAPSHOT, which gives just snapshot without subscription.

```

359 // Subscribes to EUR/USD and USD/CAD trading securities
360 void FixApplication::SubscribeMarketData()
361 {
362     // Subscribe to market data for EUR/USD and USD/CAD
363     string request_ID = "EUR_USD_Request_";
364     FIX44::MarketDataRequest request;
365     request.setField(MDReqID(request_ID));
366     request.setField(SubscriptionRequestType(
367         SubscriptionRequestType_SNAPSHOT_PLUS_UPDATES));
368     request.setField(MarketDepth(0));
369     request.setField(NoRelatedSym(2));
370
371     // Add the NoRelatedSym group to the request with Symbol
372     // field set to EUR/USD
373     FIX44::MarketDataRequest::NoRelatedSym symbols_group;
374     symbols_group.setField(Symbol("EUR/USD"));
375     request.addGroup(symbols_group);
376     symbols_group.setField(Symbol("USD/CAD"));
377     request.addGroup(symbols_group);
378
379     // Add the NoMDEntryTypes group to the request for each MDEntryType
380     // that we are subscribing to. This includes Bid, Offer, High, and Low
381     FIX44::MarketDataRequest::NoMDEntryTypes entry_types;
382     entry_types.setField(MDEntryType(MDEntryType_BID));
383     request.addGroup(entry_types);
384     entry_types.setField(MDEntryType(MDEntryType_OFFER));
385     request.addGroup(entry_types);
386     entry_types.setField(MDEntryType(MDEntryType_TRADING_SESSION_HIGH_PRICE));
387     request.addGroup(entry_types);
388     entry_types.setField(MDEntryType(MDEntryType_TRADING_SESSION_LOW_PRICE));
389     request.addGroup(entry_types);
390
391     Session::sendToTarget(request, sessionID(true));
392 }

```

```

393
394 // Unsubscribes from EUR/USD and USD/CAD trading securities
395 void FixApplication::UnsubscribeMarketData()
396 {
397     // Unsubscribe from EUR/USD and USD/CAD. Note that our request_ID is the exact same
398     // that was sent for our request to subscribe. This is necessary to
399     // unsubscribe. This request below is identical to our request to subscribe
400     // with the exception that SubscriptionRequestType is set to
401     // "SubscriptionRequestType_DISABLE_PREVIOUS_SNAPSHOT_PLUS_UPDATE_REQUEST"
402     string request_ID = "EUR_USD_Request_";
403     FIX44::MarketDataRequest request;
404     request.setField(MDReqID(request_ID));
405     request.setField(SubscriptionRequestType(
406         SubscriptionRequestType_DISABLE_PREVIOUS_SNAPSHOT_PLUS_UPDATE_REQUEST));
407     request.setField(MarketDepth(0));
408     request.setField(NoRelatedSym(2));
409
410     // Add the NoRelatedSym group to the request with Symbol
411     // field set to EUR/USD + USD/CAD
412     FIX44::MarketDataRequest::NoRelatedSym symbols_group;
413     symbols_group.setField(Symbol("EUR/USD"));
414     request.addGroup(symbols_group);
415     symbols_group.setField(Symbol("USD/CAD"));
416     request.addGroup(symbols_group);
417
418     // Add the NoMDEntryTypes group to the request for each MDEntryType
419     // that we are subscribing to. This includes Bid, Offer, High, and Low
420     FIX44::MarketDataRequest::NoMDEntryTypes entry_types;
421     entry_types.setField(MDEntryType(MDEntryType_BID));
422     request.addGroup(entry_types);
423     entry_types.setField(MDEntryType(MDEntryType_OFFER));
424     request.addGroup(entry_types);
425     entry_types.setField(MDEntryType(MDEntryType_TRADING_SESSION_HIGH_PRICE));
426     request.addGroup(entry_types);
427     entry_types.setField(MDEntryType(MDEntryType_TRADING_SESSION_LOW_PRICE));
428     request.addGroup(entry_types);
429
430     Session::sendToTarget(request, sessionID(true));
431 }

```

- MarketDepth – please leave this one as 0
- NoRelatedSym – this is the number of symbols that we would want to subscribe for
- MDEntryType is about the rates that you want to see.

**Sending Market order** – in the example you can see a very simple order for buying 10K EUR/USD at current market price.

```
432
433 // Sends a basic NewOrderSingle message to buy EUR/USD at the
434 // current market price
435 void FixApplication::MarketOrder()
436 {
437     // For each account in our list, send a NewOrderSingle message
438     // to buy EUR/USD. What differentiates this message is the
439     // accountID
440     int total_accounts = (int)list_accountID.size();
441     for(int i = 0; i < total_accounts; i++){
442         string accountID = list_accountID.at(i);
443         FIX44::NewOrderSingle request;
444         request.setField(CIOrdID(NextRequestID()));
445         request.setField(Account(accountID));
446         request.setField(Symbol("EUR/USD"));
447         request.setField(TradingSessionID("FXCM"));
448         request.setField(TransactTime());
449         request.setField(OrderQty(10000));
450         request.setField(Side(FIX::Side_BUY));
451         request.setField(OrdType(OrdType_MARKET));
452         request.setField(TimeInForce(FIX::TimeInForce_GOOD_TILL_CANCEL)); // For newer versions of QuickFIX change this to TimeInForce_GOOD_TILL_CANCEL
453         Session::sendToTarget(request, sessionID(false));
454     }
455 }
```

If you want to close existing open position, the way to do this is by MarketOrder() with the same quantity and the opposite side (so Side parameter in the case above would be Side\_SELL instead of Side\_BUY).

### Creating Stop order:

```
458
459 void FixApplication::StopOrder()
460 {
461     int total_accounts = (int)list_accountID.size();
462     for (int i = 0; i < total_accounts; i++) {
463         string accountID = list_accountID.at(i);
464         FIX44::NewOrderSingle request;
465         request.setField(FIX::CIOrdID(NextRequestID()));
466         request.setField(FIX::Account(accountID));
467         request.setField(FIX::Symbol("EUR/USD"));
468         request.setField(FIX::Side(FIX::Side_BUY));
469         request.setField(FIX::TransactTime(FIX::TransactTime()));
470         request.setField(FIX::OrderQty(10000));
471         request.setField(FIX::OrdType(FIX::OrdType_STOP));
472         request.setField(FIX::StopPx(1.1870));
473
474         FIX::Session::sendToTarget(request, sessionID(false));
475     }
476 }
477
```

This one is pretty similar to MarketOrder() with the only difference in OrdType being OrdType\_STOP instead of OrdType\_MARKET (value is '3' instead of '1'). We also set StopPx (stop price), so buy orders will be filled at or above this price and sell orders will be filled at or below this price.

Limit order, which is also very similar:

```
478
479 void FixApplication::LimitOrder()
480 {
481     int total_accounts = (int)list_accountID.size();
482     for (int i = 0; i < total_accounts; i++) {
483         string accountID = list_accountID.at(i);
484         FIX44::NewOrderSingle request;
485         request.setField(FIX::ClOrdID(NextRequestID()));
486         request.setField(FIX::Account(accountID));
487         request.setField(FIX::Symbol("EUR/USD"));
488         request.setField(FIX::Side(FIX::Side_BUY));
489         request.setField(FIX::TransactTime(FIX::TransactTime()));
490         request.setField(FIX::OrderQty(10000));
491         request.setField(FIX::OrdType(OrdType_LIMIT));
492         request.setField(FIX::Price(1.1860));
493
494         FIX::Session::sendToTarget(request, sessionID(false));
495     }
496 }
497
```

In this case we have OrdType\_LIMIT for OrdType (value is '2'), and this time the field related to price is 'Price'.

**GetWaitingOrders()** function is for entry orders that have yet to be filled. When we enter 8 as input in the console (for my testing account I have 3 orders for which I can see the order IDs):

```
498
499 void FixApplication::GetWaitingOrders()
500 {
501     int total_accounts = (int)list_accountID.size();
502     for (int i = 0; i < total_accounts; i++) {
503         string accountID = list_accountID.at(i);
504         FIX44::OrderMassStatusRequest request;
505         request.setField(MassStatusReqID(NextRequestID()));
506         request.setField(MassStatusReqType(MassStatusReqType_STATUS_FOR_ALL_ORDERS));
507         request.setField(Account(accountID));
508
509         Session::sendToTarget(request, sessionID(false));
510     }
511 }
512
```

```

8
ExecutionReport ->
  ClOrdID -> 6
  Account -> 01260808
  OrderID -> 380383000
  LastQty -> 0
  CumQty -> 0
  ExecType -> I
  OrdStatus -> 0
ExecutionReport ->
  ClOrdID -> 7
  Account -> 01260808
  OrderID -> 380383001
  LastQty -> 0
  CumQty -> 0
  ExecType -> I
  OrdStatus -> 0
ExecutionReport ->
  ClOrdID -> 8
  Account -> 01260808
  OrderID -> 380383002
  LastQty -> 0
  CumQty -> 0
  ExecType -> I
  OrdStatus -> 0

```

**CancelOrder()** – here you need to specify Side, Symbol and OrderID, which is a string.

```

513
514 void FixApplication::CancelOrder()
515 {
516     int total_accounts = (int)list_accountID.size();
517     for (int i = 0; i < total_accounts; i++) {
518         string accountID = list_accountID.at(i);
519         FIX44::OrderCancelRequest request;
520         request.setField(FIX::ClOrdID(NextRequestID()));
521         request.setField(FIX::Account(accountID));
522         request.setField(FIX::OrigClOrdID());
523         request.setField(FIX::Side(FIX::Side_BUY));
524         request.setField(FIX::Symbol("EUR/USD"));
525         request.setField(FIX::TransactTime(FIX::TransactTime()));
526         request.setField(FIX::OrderID("380374833"));
527
528         FIX::Session::sendToTarget(request, sessionID(false));
529     }
530 }
531

```

Another variant of this, where you input the order ID in the console:

```
532
533 void FixApplication::CancelOrder()
534 {
535     int total_accounts = (int)list_accountID.size();
536     string order_id;
537     cout << "Enter Order ID to be canceled: ";
538     cin >> order_id;
539     for (int i = 0; i < total_accounts; i++) {
540         string accountID = list_accountID.at(i);
541         FIX44::OrderCancelRequest request;
542         request.setField(FIX::ClOrdID(NextRequestID()));
543         request.setField(FIX::Account(accountID));
544         request.setField(FIX::OrigClOrdID());
545         request.setField(FIX::Side(FIX::Side_BUY));
546         request.setField(FIX::Symbol("EUR/USD"));
547         request.setField(FIX::TransactTime(FIX::TransactTime()));
548         request.setField(FIX::OrderID(order_id));
549
550         FIX::Session::sendToTarget(request, sessionID(false));
551     }
552 }
```

```
9
Enter Order ID to be canceled: 380383000
ExecutionReport ->
  ClOrdID -> 10
  Account -> 01260808
  OrderID -> 380383000
  LastQty -> 0
  CumQty -> 0
  ExecType -> 6
  OrdStatus -> 6
ExecutionReport ->
  ClOrdID -> 10
  Account -> 01260808
  OrderID -> 380383000
  LastQty -> 0
  CumQty -> 0
  ExecType -> 4
  OrdStatus -> 4
```