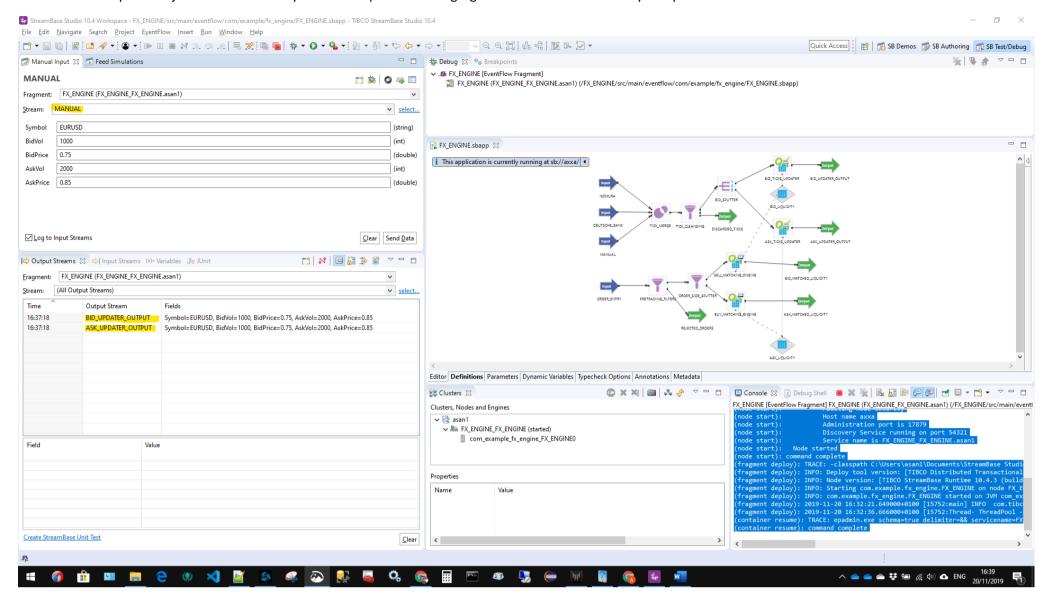# Practica 11 CEP: Gestión de Liquidez y Órdenes para FX

Los mostrado a continuación detalla el flujo de actividades correspondientes a la ejecución del proyecto con StreamBase Studio
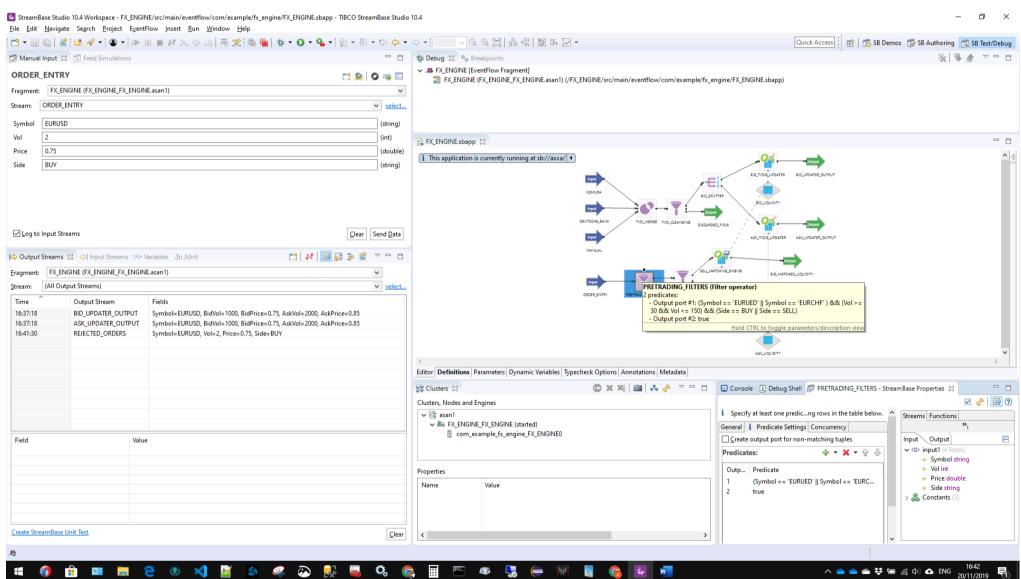
1. Se ejecuta el Proyecto de forma correcta con el siguiente trace:

```
(node install): TRACE: epadmin.exe install node nodedirectory=C:\Users\asan1\Documents\StreamBase Studio 10.4 Workspace\.nodes nodename=FX_ENGINE_FX_ENGINE.asan1 buildtype=PRODUCTION
(node install):      Installing node
(node install):          PRODUCTION executables
(node install):          File shared memory
(node install):          7 concurrent allocation segments
(node install):          Host name axxa
(node install):          Container tibco/sb
(node install):          Starting container services
(node install):          Loading node configuration
(node install):          Auditing node security
(node install):          Administration port is 17879
(node install):          Discovery Service running on port 54321
(node install):          Service name is FX_ENGINE_FX_ENGINE.asan1
(node install):      Node installed
(node install): command complete
(node start): TRACE: epadmin.exe servicename=FX_ENGINE_FX_ENGINE.asan1 start node
(node start):    Starting node
(node start):        Loading node configuration
(node start):        Auditing node security
(node start):        Host name axxa
(node start):        Administration port is 17879
(node start):        Discovery Service running on port 54321
(node start):        Service name is FX_ENGINE_FX_ENGINE.asan1
(node start):    Node started
(node start): command complete
(fragment deploy): TRACE: -
classpath C:\Users\asan1\Documents\StreamBase Studio 10.4 Workspace\FX_ENGINE\src\main\eventflow;C:\Users\asan1\Documents\StreamBase Studio 10.4 Workspace\FX_ENGINE\target\classes servicename=FX_ENGINE_FX_ENGINE.asan1 com.example.fx_engine.FX_ENGINE suspend=true
(fragment deploy): INFO: Deploy tool version: [TIBCO Distributed Transactional Memory Platform 10.4.3 (build 1904171609)] starting at
 [Wed Nov 20 16:32:11 CET 2019]
(fragment deploy): INFO: Node version: [TIBCO StreamBase Runtime 10.4.3 (build 1904180159)]
(fragment deploy): INFO: Starting com.example.fx_engine.FX_ENGINE on node FX_ENGINE_FX_ENGINE.asan1 ...
(fragment deploy): INFO: com.example.fx_engine.FX_ENGINE started on JVM com_example_fx_engine_FX_ENGINE0 on node FX_ENGINE_FX_ENGINE.asan1.
(fragment deploy): 2019-11-20 16:32:21.649000+0100 [15752:main] INFO  com.tibco.ep.dtm.lifecycle: No user-
defined Logback configuration, using product default configuration
(fragment deploy): 2019-11-
20 16:32:36.666000+0100 [15752:Thread- ThreadPool - 1] INFO  com.streambase.sb.sbd.net.StreamBaseHTTPServer: sbd at axxa:10000; pid=15752; version=10.4.3_a45545bc0fa864b6dd457e084eb653f6e2004e05; Listening
(container resume): TRACE: epadmin.exe schema=true delimiter=&& servicename=FX_ENGINE_FX_ENGINE.asan1 resume container
(container resume): command complete
```

2. Se entra por el flujo de orden manual y se verifica que se están agregando las ordenes de venta y compra:

3. Se entra una order_entry de compra y se puede ver que fue rechazada debido inicialmente por el Symbol. Si cambiara el Symbol por EURUED entraría a rechazada por el volumen

Ahora se entra una orden de compra apropiada

ORDER_ENTRY

Fragment:	FX_ENGINE (FX_ENGINE_FX_ENGINE.asan1)	
Stream:	ORDER_ENTRY	select...

Symbol	EURUED	(string)
Vol	30	(int)
Price	0.75	(double)
Side	BUY	(string)

☑ Log to Input Streams   Clear | Send Data

⇨ Output Streams ⊠ ⇨| Input Streams (x)= Variables Ju JUnit

Fragment:	FX_ENGINE (FX_ENGINE_FX_ENGINE.asan1)	
Stream:	(All Output Streams)	select...

Time	Output Stream	Fields
16:37:18	BID_UPDATER_OUTPUT	Symbol=EURUSD, BidVol=1000, BidPrice=0.75, AskVol=2000, AskPrice=0.85
16:37:18	ASK_UPDATER_OUTPUT	Symbol=EURUSD, BidVol=1000, BidPrice=0.75, AskVol=2000, AskPrice=0.85
16:41:30	REJECTED_ORDERS	Symbol=EURUSD, Vol=2, Price=0.75, Side=BUY
16:45:12	BID_MATCHED_LIQUIDITY	Symbol=EURUED, Vol=30, Price=0.75, Side=BUY

Se entra una orden de venta apropiada

ORDER_ENTRY

Fragment:	FX_ENGINE (FX_ENGINE_FX_ENGINE.asan1)	
Stream:	ORDER_ENTRY	select...

Symbol	EURUED	(string)
Vol	30	(int)
Price	0.75	(double)
Side	SELL	(string)

☑ Log to Input Streams   Clear | Send Data

⇨ Output Streams ⊠ ⇨| Input Streams (x)= Variables Ju JUnit

Fragment:	FX_ENGINE (FX_ENGINE_FX_ENGINE.asan1)	
Stream:	(All Output Streams)	select...

Time	Output Stream	Fields
16:37:18	BID_UPDATER_OUTPUT	Symbol=EURUSD, BidVol=1000, BidPrice=0.75, AskVol=2000, AskPrice=0.85
16:37:18	ASK_UPDATER_OUTPUT	Symbol=EURUSD, BidVol=1000, BidPrice=0.75, AskVol=2000, AskPrice=0.85
16:41:30	REJECTED_ORDERS	Symbol=EURUSD, Vol=2, Price=0.75, Side=BUY
16:45:12	BID_MATCHED_LIQUIDITY	Symbol=EURUED, Vol=30, Price=0.75, Side=BUY
16:48:02	ASK_MATCHED_LIQUIDITY	Symbol=EURUED, Vol=30, Price=0.75, Side=SELL