"How to" instructions

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How to upgrade FEJ to a new version

It is very simple to upgrade FEJ. First, download the new version of FEJ and unzip it (see Quick Start). Then, replace all files and directories in your FEJ home directory, except for the /conf directory. All custom user configurations are saved in /conf, therefore the upgrade will not affect personal settings.

How to configure session schedule that can't be defined via single cronexpression

FIXEdge Java 1.8.0 and earlier doesn't support several schedules for the session. So there is a limitation preventing creating a session schedule requiring multiple cron expressions.

For example, the session should have the next maintenance windows:

Saturday: 6PM – 7PM ET
Sunday: 10AM – 11AM ET
Sunday: 6PM – 7PM ET

To achieve this, the user can configure a weekly session with start at 7 PM Sun and stop at 6 PM Sat. And cover the rest time intervals via external tools and scripts (FIXEdge JAVA administration shell CLI) that can start the session remotely.



FIXEdge Java Administrative shell requests passing of a password to it.

Before using it as part of the script, the user should at least once connect to the administrative shell and save SSH keys and insert a password manually.

Crontab scripts examples for credentials:

- username test
- password test
- remote host fixedgej.sever.com:2000
- session name session1
- 1. It is needed to add two additional commands to the crontab that will start the session at 7 PM Sat and 11 AM Sun:

```
sshpass -p test ssh -t test@fixedgej.sever.com -p 2000 'session start session1'
```

2. It is needed to add two additional commands to the crontab that will stop the session at 11 AM Sun and 6 PM Sun

```
sshpass -p test ssh -t test@fixedgej.sever.com -p 2000 'session start session1'
```

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sshpass tool is installed on the administrative host.

Optionally for the Windows remote host, you can use the plink tool (which is part of the PuTTY package):

```
plink.exe fixedgej.sever.com -P 2000 -l test -pw test -batch -t session start session1
```

How to configure Echo between FIXEdge Java and Simple Client

Echo configuration between FIXEdge Java and Simple Client is performed in the following way:

- 1. Install FIXEdge Java.
- 2. To create the TestEchoAcceptor session, create a new file named fixedgej-x.x.x\conf\session\s_fix_TestEchoAcceptor.properties Configure session parameters there:

s_fix_TestEchoAcceptor.properties sessionType=acceptor senderCompID=FIXEdgeJ targetCompID=FIXECHOCLIENT fixVersion=FIX.4.4 startOnload = true

3. Configure Business Logic rules in the **fixedgej-x.x.x\conf\rules.groovy** file. This will route all messages from the **TestEchoAcceptor** session back to the **TestEchoAcceptor** session.

The session-id value in the rule source.id == "TestEchoAcceptor" is the same as the ID in the s_fix_TestEchoAcceptor.properties session configuration file.

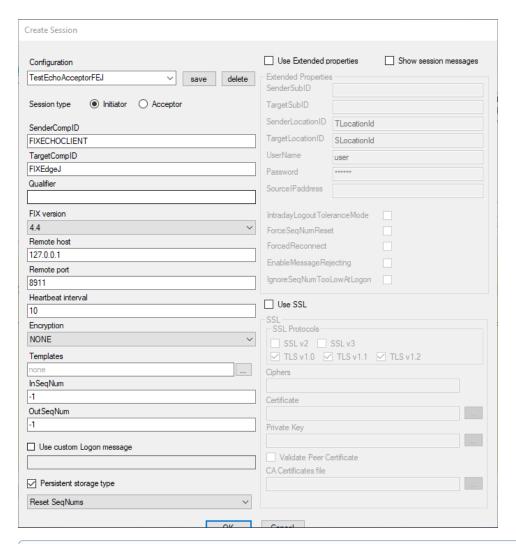
4. Run FIXEdge Java.

For example, via the run script:

- Windows: Go to the FIXEdge Java installation dir fixedgej-x.x.x\bat\ and run the runConsole.bat script.
- Linux: Go to the FIXEdge Java installation dir fixedgej-x.x.x/bin and run the runConsole.sh script.
- 5. Open FIX Client Simulator (FCS).

Create a new session as Initiator:

```
Session type: Initiator
SenderCompID = FIXECHOCLIENT
TargetCompID = FIXEdgeJ
FIX Version = 4.4
Remote Port = 8911 (server.port parameter in FEJ fixedge.properties -> fixedgej-x.x.x\conf\fixedge.properties )
Remote Host = localhost (or IP address/hostname of the FIXEdge Java server)
```



The default port for session acceptors is 8911 and specified as the server.port parameter in the fixedge.properties file.

NOTE: **SenderCompID** on the FCS side should have the same value as **TargetCompId** on the FIXEdge side. **TargetCompId** on the FCS side should be the same as **SenderCompID** on FIXEdge side.

6. Send the message from FIX Client Simulator (the Pipes character is used to represent the SOH character).

```
New Order - Echo test.msg

8=FIX.4.4|9=156|35=D|49=FIXECHOCLIENT|56=FIXEdgeJ|34=2|52=20210625-22:16:38.867
|11=Order#3|21=1|100=1|55=TESTSMBL|54=1|60=20131124-04:11:46.768|38=20000|40=2|44=34.7|10=026|
```

The file contains SOH symbols: NewOrderEchoTestMessage.txt

7. The Echo message from FIXEdge is received.

```
8=FIX.4.4|9=156|35=D|34=2|49=FIXEdgeJ|56=FIXECHOCLIENT|52=20210625-22:16:38.878
|11=Order#3|21=1|100=1|55=TESTSMBL|54=1|60=20131124-04:11:46.768|38=20000|40=2|44=34.7|10=028|
```