

Example - Barry Kaplan

This was an approach prototyped by Barry Kaplan almost a year ago.

Top level application configuration follows. Some notable features:

- No use of standard QF configuration file. Spring configures everything.
- More control of session configuration. For example, each session can use a different application instance.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE beans PUBLIC "-//SPRING//DTD BEAN//EN"
"http://www.springframework.org/dtd/spring-beans.dtd">

<beans>

    <!-- Sets up core Spring objects for QFJ -->
    <import resource="classpath:quickfix/spring/quickfixj.appctx.xml"/>

    <bean id="messageStoreFactory"
class="quickfix.spring.messagestore.MemoryMessageStoreFactory"/>

    <bean id="logFactory" class="quickfix.ScreenLogFactory">
        <constructor-arg value="true"/>
        <constructor-arg value="true"/>
        <constructor-arg value="true"/>
    </bean>

    <bean id="dataDictionary"
class="quickfix.spring.session.DataDictionary">
        <property name="definition" ref="quickfix:FIX42"/>
        <property name="validateFieldsOutOfOrder" value="false"/>
        <property name="validateFieldsHaveValues" value="false"/>
        <property name="validateUserDefinedFields" value="false"/>
    </bean>

    <bean id="abstractInitiatorSession" abstract="true"
class="quickfix.spring.session.InitiatorSessionFactoryBean">
        <property name="dataDictionary" ref="dataDictionary"/>
        <property name="sessionSchedule" value="00:00:00, 24:00:00"/>
        <property name="heartbeatInterval" value="3"/>
        <property name="messageStoreFactory" ref="messageStoreFactory"/>
        <property name="logFactory" ref="logFactory"/>
    </bean>

    <!-- Sessions are configured directly in the Spring configuration -->
    <!-- There is no use of the standard QF configuration file -->
    <!-- Every session can be configured with a different application
object, unlike QF -->

    <bean id="initiatorSession_A" parent="abstractInitiatorSession">
        <property name="sessionID"
```

```

value="FIX.4.2:senderCompIdA:targetCompIdA"/>
    <property name="application">
        <bean
class="quickfix.spring.transport.ConfigurationServer$LoggingApplication">
            <property name="name" value="InitiatorA"/>
        </bean>
    </property>
</bean>

    <bean id="initiatorSession_B" parent="abstractInitiatorSession">
        <property name="sessionID"
value="FIX.4.2:senderCompIdB:targetCompIdA"/>
            <property name="application">
                <bean
class="quickfix.spring.transport.ConfigurationServer$LoggingApplication">
                    <property name="name" value="InitiatorB"/>
                </bean>
            </property>
        </bean>

<!-- -->

    <bean id="abstractAcceptor" abstract="true"
class="quickfix.spring.session.AcceptorSessionFactoryBean">
        <property name="application">
            <bean
class="quickfix.spring.transport.ConfigurationServer$LoggingApplication">
                <property name="name" value="Acceptor"/>
            </bean>
        </property>
        <property name="dataDictionary" ref="dataDictionary"/>
        <property name="sessionSchedule" value="monday 00:00:00, sunday
24:00:00"/>
        <property name="messageStoreFactory" ref="messageStoreFactory"/>
        <property name="logFactory" ref="logFactory"/>
    </bean>

    <bean id="acceptorSession_A" parent="abstractAcceptor">
        <property name="sessionID"
value="FIX.4.2:targetCompIdA:senderCompIdA"/>
    </bean>

    <bean id="acceptorSession_B" parent="abstractAcceptor">
        <property name="sessionID"
value="FIX.4.2:targetCompIdA:senderCompIdB"/>
    </bean>

```

```
</beans>
```

This is a mix-in style configuration for the network connections. By including a different file, a completely different transport could be used.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE beans PUBLIC "-//SPRING//DTD BEAN//EN"
"http://www.springframework.org/dtd/spring-beans.dtd">

<beans>

    <bean id="quickfix:minaSocketInitiator"
class="quickfix.transport.mina.MinaSocketInitiator">
        <constructor-arg index="0"
ref="quickfix:scheduledExecutorService"/>
    </bean>

    <bean id="quickfix:minaSocketInitiatorAwareProcessor"
class="quickfix.spring.transport.mina.MinaSocketInitiatorAwareProcessor">
        <property name="minaInitiator" ref="quickfix:minaSocketInitiator"/>
    </bean>

    <bean id="quickfix:minaSocketAcceptor"
class="quickfix.transport.mina.MinaSocketAcceptor"/>

    <bean id="quickfix:minaSocketAcceptorAwareProcessor"
class="quickfix.spring.transport.mina.MinaSocketAcceptorAwareProcessor">
        <property name="minaAcceptor" ref="quickfix:minaSocketAcceptor"/>
    </bean>

</beans>
```

quickfixj.appctx.xml:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE beans PUBLIC "-//SPRING//DTD BEAN//EN"
"http://www.springframework.org/dtd/spring-beans.dtd">

<beans>

    <bean id="_quickfix:propertyOverrideConfigurer"
class="org.springframework.beans.factory.config.PropertyOverrideConfigurer"
">
        <property name="location" value="classpath:quickfix.properties"/>
    </bean>

</beans>
```

```

        <property name="ignoreResourceNotFound" value="true"/>
    </bean>

    <!-- TODO Document as available -->
    <bean id="quickfix:FIX42"
class="org.springframework.core.io.ClassPathResource">
        <constructor-arg value="FIX42.xml"/>
    </bean>
    <!-- TODO Document as available -->
    <bean id="quickfix:FIX43"
class="org.springframework.core.io.ClassPathResource">
        <constructor-arg value="FIX43.xml"/>
    </bean>
    <!-- TODO Document as available -->
    <bean id="quickfix:FIX44"
class="org.springframework.core.io.ClassPathResource">
        <constructor-arg value="FIX44.xml"/>
    </bean>

    <bean name="_quickfix:sessionSettingsAwareProcessor"

class="quickfix.spring.sessionsettings.SessionSettingsAwareProcessor"/>

    <bean name="_quickfix:sessionSettings"

class="org.springframework.beans.factory.config.PropertyPathFactoryBean">
        <property name="targetObject"
ref="_quickfix:sessionSettingsAwareProcessor"/>
        <property name="propertyPath" value="sessionSettings"/>
    </bean>

    <bean name="_quickfix:cachingSessionFactoryAwareProcessor"

class="quickfix.spring.session.CachingSessionFactoryAwareProcessor">
        <property name="sessionSettings" ref="_quickfix:sessionSettings"/>
    </bean>

    <!-- TODO Document configurable property: corePoolSize -->
    <bean id="quickfix:scheduledExecutorService"
        class="quickfix.spring.ScheduledExecutorServiceFactoryBean"/>

    <bean name="_quickfix.transport:propertyEditors"

class="org.springframework.beans.factory.config.CustomEditorConfigurer">
        <property name="customEditors">
            <map>
                <entry key="quickfix.SessionID">
                    <bean
class="quickfix.spring.session.SessionIDPropertyEditor"/>
                </entry>
            </map>
        </property>
    </bean>

```

```
        <entry key="quickfix.spring.session.SessionSchedule">
            <bean
class="quickfix.spring.session.SessionSchedulePropertyEditor"/>
        </entry>
        <entry key="java.net.SocketAddress">
            <bean
class="quickfix.spring.transport.InetSocketAddressPropertyEditor"/>
        </entry>
        <entry key="java.net.InetSocketAddress">
            <bean
class="quickfix.spring.transport.InetSocketAddressPropertyEditor"/>
        </entry>
    </map>
</property>
</bean>
```

</beans>