

How to configure adapters in FIXEdge

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Overview

FIXEdge provides the possibility to set up and configure adapters for FIXEdge using [FIXEdge.properties](#) file.

There can be one or several adapters configured for one instance of FIXEdge. There also can be several instances of one adapter configured for one instance of FIXEdge.

Each adapter is a separate *.dll file.

Preparation

1. Download [adapter \(or adapters\)](#) you want to configure;
2. Make a backup copy of your current FIXEdge configuration;
3. Prepare configuration amendments in case you plan to change any credentials, destination folders, connection parameters, etc. Refer to [configuration guides](#) for assistance;
4. Make sure you have sufficient administration permissions for further uninstall/install procedures.
5. Install the chosen adapter according to the rules specified in [FIXEdge Transport Adaptors](#) article for each adapter.

Configuring

1. The list of adapters to be used by the instance of FIXEdge should be specified in *TransportLayer.TransportAdaptors* parameter. Values are delimited by comma.
E.g.: *TransportLayer.TransportAdaptors = TransportLayer.MQAdaptor, TransportLayer.JMSTA*
2. For each mentioned adapter the set of specific configuration parameters should be defined.
Refer to [FIXEdge Transport Adaptors](#) for assistance and adapters configuration parameters details.

For example, if you want to set up one instance of [MQ adapter](#), after preparation phase, you need to specify the following properties in the [FIXEdge.properties](#) file:

FIXEdge.properties

```
TransportLayer.TransportAdapters = TransportLayer.MQAdaptor

#-----
# MQ Adaptor Settings
#-----

TransportLayer.MQAdaptor.Description = MQ Transport Adaptor DLL
TransportLayer.MQAdaptor.TimeIntervalBeforeReconnect = 1000

TransportLayer.MQAdaptor.DllName = bin/MQTAAddin-vc10-MD-x64.dll
TransportLayer.MQAdaptor.StorageDirectory = FixEdge1/log
TransportLayer.MQAdaptor.NumAttemptReconnect = -1
TransportLayer.MQAdaptor.WaitIntervalForGet = 10000
TransportLayer.MQAdaptor.BufferSizeForMessage = 65536

TransportLayer.MQAdaptor.MQ_HOSTNAME = localhost
TransportLayer.MQAdaptor.MQ_MANAGER_NAME = TestMQ
TransportLayer.MQAdaptor.MQ_PORT = 1414
TransportLayer.MQAdaptor.MQ_CCSID = 437
TransportLayer.MQAdaptor.MQ_CHANNEL_NAME = TestConnection

TransportLayer.MQAdaptor.SessionNumber = 1
TransportLayer.MQAdaptor.Session.1.ClientID = MQClient
TransportLayer.MQAdaptor.Session.1.FromClientQueue = MQClient_from
TransportLayer.MQAdaptor.Session.1.ToClientQueue = MQClient_to
TransportLayer.MQAdaptor.Session.1.ErrorQueue = MQClient_error
TransportLayer.MQAdaptor.Session.1.SmartXMLProcessor = false
```

How to configure several adapters

Below is the sample of configuration of [MQ adaptor](#) and [JMS Adapter](#) on the one instance of FIXEdge:

FIXEdge.properties

```
TransportLayer.TransportAdapters = TransportLayer.MQAdaptor, TransportLayer.JMSTA

#-----
# MQ Adaptor Settings
#-----

TransportLayer.MQAdaptor.Description = MQ Transport Adaptor DLL
TransportLayer.MQAdaptor.TimeIntervalBeforeReconnect = 1000

TransportLayer.MQAdaptor.DllName = bin/MQTAAddin-vc10-MD-x64.dll
TransportLayer.MQAdaptor.StorageDirectory = FixEdge1/log
TransportLayer.MQAdaptor.NumAttemptReconnect = -1
TransportLayer.MQAdaptor.WaitIntervalForGet = 10000
TransportLayer.MQAdaptor.BufferSizeForMessage = 65536

TransportLayer.MQAdaptor.MQ_HOSTNAME = EVUAKYISD0223.kyiv.epam.com
TransportLayer.MQAdaptor.MQ_MANAGER_NAME = TestMQ
TransportLayer.MQAdaptor.MQ_PORT = 1414
TransportLayer.MQAdaptor.MQ_CCSID = 437
TransportLayer.MQAdaptor.MQ_CHANNEL_NAME = TestConnection

TransportLayer.MQAdaptor.SessionNumber = 1
TransportLayer.MQAdaptor.Session.1.ClientID = MQClient
TransportLayer.MQAdaptor.Session.1.FromClientQueue = MQClient_from
TransportLayer.MQAdaptor.Session.1.ToClientQueue = MQClient_to
TransportLayer.MQAdaptor.Session.1.ErrorQueue = MQClient_error
TransportLayer.MQAdaptor.Session.1.SmartXMLProcessor = false

#-----
# JMS Adaptor Settings
```

```

#-----
TransportLayer.JMSTA.Description = JMS Transport Adaptor
TransportLayer.JMSTA.DllName = bin/jmsTADll-vc10-MD-x64.dll // Use libJMSTA.so for Linux
TransportLayer.JMSTA.JVMOptionsFile = FixEdge1/conf/JVM_Options.jvmopts // Use ../FixEdge1/conf/JVM_Options.jvmopts for Linux
TransportLayer.JMSTA.CheckSendingTimeout = 0
TransportLayer.JMSTA.ConnectionNames = Connection1
TransportLayer.JMSTA.ClientNames = ProducerSession, ConsumerSession

TransportLayer.JMSTA.Connection.Connection1.InitialContextFactory = org.apache.activemq.jndi.ActiveMQInitialContextFactory
TransportLayer.JMSTA.Connection.Connection1.ProviderURI = tcp://10.17.12.244:61616
TransportLayer.JMSTA.Connection.Connection1.User = test
TransportLayer.JMSTA.Connection.Connection1.Password = test
TransportLayer.JMSTA.Connection.Connection1.ConnectionFactory = queueConnectionFactory
TransportLayer.JMSTA.Connection.Connection1.Reconnect = false
TransportLayer.JMSTA.Connection.Connection1.ReconnectTries = 3
TransportLayer.JMSTA.Connection.Connection1.ReconnectInterval = 500

TransportLayer.JMSTA.Client.ProducerSession.ConnectionName = Connection1
TransportLayer.JMSTA.Client.ProducerSession.StorageDir = ../FixEdge1/log
TransportLayer.JMSTA.Client.ProducerSession.SessionType = Producer
TransportLayer.JMSTA.Client.ProducerSession.SmartXMLProcessing = false
TransportLayer.JMSTA.Client.ProducerSession.Version = FIX44
TransportLayer.JMSTA.Client.ProducerSession.MessagingMode = Queue
TransportLayer.JMSTA.Client.ProducerSession.DestinationURI = MyQueue
TransportLayer.JMSTA.Client.ProducerSession.DeliveryMode = NoPersist
TransportLayer.JMSTA.Client.ProducerSession.TimeToLive = 100000
TransportLayer.JMSTA.Client.ProducerSession.SessionAckMode = Auto
TransportLayer.JMSTA.Client.ProducerSession.MessageType = Text
TransportLayer.JMSTA.Client.ProducerSession.Transacted = true
TransportLayer.JMSTA.Client.ProducerSession.DurableSubscription = false
TransportLayer.JMSTA.Client.ProducerSession.DurableSubscriptionName = DurableTest
TransportLayer.JMSTA.Client.ProducerSession.NotifyMessageDelivered = false

TransportLayer.JMSTA.Client.ConsumerSession.ConnectionName = Connection1
TransportLayer.JMSTA.Client.ConsumerSession.StorageDir = ../FixEdge1/log
TransportLayer.JMSTA.Client.ConsumerSession.SessionType = Consumer
TransportLayer.JMSTA.Client.ConsumerSession.Version = FIX44
TransportLayer.JMSTA.Client.ConsumerSession.MessagingMode = Queue
TransportLayer.JMSTA.Client.ConsumerSession.DestinationURI = MyQueue
TransportLayer.JMSTA.Client.ConsumerSession.DeliveryMode = NoPersist
TransportLayer.JMSTA.Client.ConsumerSession.TimeToLive = 100000
TransportLayer.JMSTA.Client.ConsumerSession.SessionAckMode = Auto
TransportLayer.JMSTA.Client.ConsumerSession.MessageType = Text
TransportLayer.JMSTA.Client.ConsumerSession.Transacted = false
TransportLayer.JMSTA.Client.ConsumerSession.DurableSubscription = false
TransportLayer.JMSTA.Client.ConsumerSession.DurableSubscriptionName = DurableTest
TransportLayer.JMSTA.Client.ConsumerSession.NotifyMessageDelivered = false

```

How to configure several instances of one adapter

When you want to setup two or more instances of one adapter (e.g. two instances of [MQ adapter](#)), follow the steps below:

1. Take the *.dll file of the adapter, copy it and change the name of the copied *.dll file.
E.g. take *.dll of MQ Adapter (*bin/MQTAAAddin.dll*), copy it and get the renamed copy (*bin/MQTAAAddin_secondary.dll*).
2. Specify both instances of adapter in `TransportLayer.TransportAdaptors` parameter in the [FIXEdge.properties](#) file.
E.g. `TransportLayer.TransportAdaptors = TransportLayer.MQAdaptorPrimary, TransportLayer.MQAdaptorSecondary`.
3. Define specific configuration parameters for each of instances of the adapter in the [FIXEdge.properties](#) file.
Refer to [FIXEdge Transport Adaptors](#) for assistance and adapters configuration parameters details.
4. Check that each configured instance uses its own *.dll file in `DllName` property of the specific adapter configuration section.

So, if you want to set up two instances of [MQ Adapter](#), you need to specify the following properties in the [FIXEdge.properties](#) file:

FIXEdge.properties

```
TransportLayer.TransportAdapters = TransportLayer.MQAdaptorPrimary,TransportLayer.MQAdaptorSecondary
```

```
#-----  
# Primary MQ Adaptor Settings  
#-----
```

```
TransportLayer.MQAdaptorPrimary.Description = Primary MQ Transport Adaptor DLL  
TransportLayer.MQAdaptorPrimary.TimeIntervalBeforeReconnect = 1000
```

```
TransportLayer.MQAdaptorPrimary.DllName = bin/MQTAAaddin.dll  
TransportLayer.MQAdaptorPrimary.StorageDirectory = FixEdgeI/log  
TransportLayer.MQAdaptorPrimary.NumAttemptReconnect = -1  
TransportLayer.MQAdaptorPrimary.WaitIntervalForGet = 10000  
TransportLayer.MQAdaptorPrimary.BufferSizeForMessage = 65536
```

```
TransportLayer.MQAdaptorPrimary.MQ_HOSTNAME = 192.168.0.2  
TransportLayer.MQAdaptorPrimary.MQ_MANAGER_NAME = TestMQ  
TransportLayer.MQAdaptorPrimary.MQ_PORT = 1414  
TransportLayer.MQAdaptorPrimary.MQ_CCSID = 437  
TransportLayer.MQAdaptorPrimary.MQ_CHANNEL_NAME = TestConnection
```

```
TransportLayer.MQAdaptorPrimary.SessionNumber = 1  
TransportLayer.MQAdaptorPrimary.Session.1.ClientID = MQClient  
TransportLayer.MQAdaptorPrimary.Session.1.FromClientQueue = MQClient_from  
TransportLayer.MQAdaptorPrimary.Session.1.ToClientQueue = MQClient_to  
TransportLayer.MQAdaptorPrimary.Session.1.ErrorQueue = MQClient_error  
TransportLayer.MQAdaptorPrimary.Session.1.SmartXMLProcessor = false
```

```
#-----  
# Secondary MQ Adaptor Settings  
#-----
```

```
TransportLayer.MQAdaptorSecondary.Description = Secondary MQ Transport Adaptor DLL  
TransportLayer.MQAdaptorSecondary.TimeIntervalBeforeReconnect = 1000
```

```
TransportLayer.MQAdaptorSecondary.DllName = bin/MQTAAaddin_secondary.dll  
TransportLayer.MQAdaptorSecondary.StorageDirectory = FixEdgeI/log  
TransportLayer.MQAdaptorSecondary.NumAttemptReconnect = -1  
TransportLayer.MQAdaptorSecondary.WaitIntervalForGet = 10000  
TransportLayer.MQAdaptorSecondary.BufferSizeForMessage = 65536
```

```
TransportLayer.MQAdaptorSecondary.MQ_HOSTNAME = 192.168.0.3  
TransportLayer.MQAdaptorSecondary.MQ_MANAGER_NAME = TestMQ  
TransportLayer.MQAdaptorSecondary.MQ_PORT = 1414  
TransportLayer.MQAdaptorSecondary.MQ_CCSID = 437  
TransportLayer.MQAdaptorSecondary.MQ_CHANNEL_NAME = TestConnection
```

```
TransportLayer.MQAdaptorSecondary.SessionNumber = 1  
TransportLayer.MQAdaptorSecondary.Session.1.ClientID = MQClient  
TransportLayer.MQAdaptorSecondary.Session.1.FromClientQueue = MQClient_from  
TransportLayer.MQAdaptorSecondary.Session.1.ToClientQueue = MQClient_to  
TransportLayer.MQAdaptorSecondary.Session.1.ErrorQueue = MQClient_error  
TransportLayer.MQAdaptorSecondary.Session.1.SmartXMLProcessor = false
```