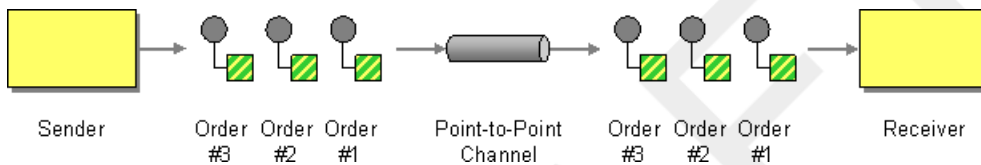


Point-to-Point Channel

Overview

A *point-to-point channel* is a [message channel on page 22](#) that guarantees that only one receiver consumes any given message (contrast this with a [publish-subscribe channel on page 38](#), which allows multiple receivers to consume the same message). In particular, with a point-to-point channel, it is possible for multiple receivers to subscribe to the same channel. If more than one receiver competes to consume a message, it is up to the message channel to ensure that only one receiver actually consumes the message.

Figure 9. Point to Point Channel Pattern



Components that support point-to-point channel

The following Mediation Router components support the point-to-point channel pattern:

- [JMS on page 36](#)
- [ActiveMQ on page 37](#)
- [SEDA on page 37](#)
- [xJPA on page 37](#)
- [XMPP on page 37](#)

JMS

In JMS, a point-to-point channel is represented by a *queue*. For example, you could specify the endpoint URI for a JMS queue called `Foo.Bar` as follows:

```
jms:queue:Foo.Bar
```

The qualifier, `queue:`, is optional, because the JMS component creates a queue endpoint by default. Hence, you could also specify the following equivalent endpoint URI:

```
jms:Foo.Bar
```

See [JMS](#) in the *Component Reference* for more details.

ActiveMQ

In ActiveMQ, a point-to-point channel is represented by a queue. For example, you could specify the endpoint URI for an ActiveMQ queue called `Foo.Bar` as follows:

```
activemq:queue:Foo.Bar
```

See [ActiveMQ](#) in the *Component Reference* for more details.

SEDA

The Mediation Router Staged Event-Driven Architecture (SEDA) component is implemented using a blocking queue. Use the SEDA component, if you want to create a lightweight point-to-point channel that is *internal* to the Mediation Router application. For example, you could specify an endpoint URI for a SEDA queue called `SedaQueue` as follows:

```
seda:SedaQueue
```

JPA

The JPA component is an EJB 3 persistence standard that is used to write Entity beans out to a database. See [JPA](#) in the *Component Reference* for more details.

XMPP

The XMPP (Jabber) component supports the point-to-point channel pattern when it is used in the person-to-person mode of communication. See [XMPP](#) in the *Component Reference* for more details.