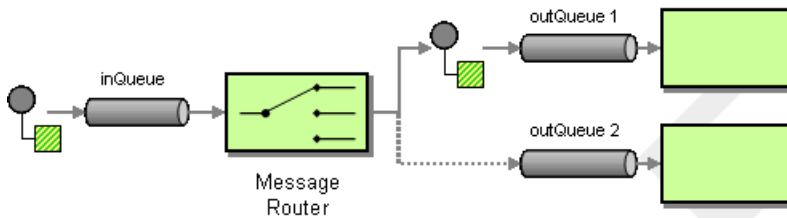


# Message Router

## Overview

A *message router* is a type of filter that consumes messages from a single source endpoint and then redirects them to the appropriate target endpoint, based on a particular decision criterion. A message router is concerned only with redirecting messages; it does not modify the message content.

Figure 7. Message Router Pattern



A message router can easily be implemented in Mediation Router using the `choice()` processor, where each of the alternative target endpoints can be selected using a `when()` subclause (for details of the choice processor, see [Processors](#) in the *Defining Routes* and [Processors](#) in the *Defining Routes* )

## Java DSL example

The following Java DSL example shows how to route messages to three alternative destinations (either `seda:a`, `seda:b`, or `seda:c`) depending on the contents of the `foo` header:

```
from("seda:a").choice()
    .when(header("foo").isEqualTo("bar")).to("seda:b")
    .when(header("foo").isEqualTo("cheese")).to("seda:c")
    .otherwise().to("seda:d");
```

## XML configuration example

The following example shows how to configure the same route in XML:

```
<camelContext id="buildSimpleRouteWithChoice" xmlns="http://activemq.apache.org/camel/schema/spring">
  <route>
    <from uri="seda:a"/>
    <choice>
      <when>
        <simple>header.foo = 'bar'</simple>
        <to uri="seda:b"/>
      </when>
    </choice>
  </route>
</camelContext>
```

```
</when>
<when>
  <simple>header.foo = 'cheese'</simple>
  <to uri="seda:c"/>
</when>
<otherwise>
  <to uri="seda:d"/>
</otherwise>
</choice>
</route>
</camelContext>
```

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