

Direct

Direct Component

The **direct:** component provides direct, synchronous invocation of any consumers when a producer sends a message exchange. This endpoint can be used to connect existing routes in the **same** camel context.



Asynchronous

The **SEDA** component provides asynchronous invocation of any consumers when a producer sends a message exchange.



Connection to other camel contexts

The **VM** component provides connections between Camel contexts as long they run in the same **JVM**.

URI format

```
direct:someName[?options]
```

Where **someName** can be any string that uniquely identifies the endpoint.

Options

Name	Default Value	Description
allowMultipleConsumers	true	@deprecated If set to false , then when a second consumer is started on the endpoint, an IllegalStateException is thrown. Will be removed in Camel 2.1: Direct endpoint does not support multiple consumers.
block	false	Camel 2.11.1: If sending a message to a direct endpoint which has no active consumer, the producer will block for timeout milliseconds waiting for a consumer to become active.
timeout	30000	Camel 2.11.1: The timeout value, in milliseconds, to block, when enabled, for an active consumer.
failIfNoConsumers	true	Camel 2.16.0: Indicates whether the producer should fail by throwing an exception when sending to a direct endpoint with no active consumers.

You can append query options to the URI in the following format: **?option=value&option=value&...**

Samples

In the route below we use the direct component to link the two routes together:

```
from("activemq:queue:order.in")
  .to("bean:orderServer?method=validate")
  .to("direct:processOrder?block=true&timeout=5000");

from("direct:processOrder")
  .to("bean:orderService?method=process")
  .to("activemq:queue:order.out");
```

And the sample using spring DSL:

```
<route>
  <from uri="activemq:queue:order.in"/>
  <to uri="bean:orderService?method=validate"/>
  <to uri="direct:processOrder?failIfNoConsumers=false"/>
</route>

<route>
  <from uri="direct:processOrder"/>
  <to uri="bean:orderService?method=process"/>
  <to uri="activemq:queue:order.out"/>
</route>
```

See also samples from the [SEDA](#) component, how they can be used together.

See Also

- [Configuring Camel](#)
- [Component](#)
- [Endpoint](#)
- [Getting Started](#)

- [SEDA](#)
- [VM](#)