

MVEL Component

MVEL Component

Available as of Camel 2.12

The **mvel**: component allows you to process a message using an **MVEL** template. This can be ideal when using **Templating** to generate responses for requests.

Maven users will need to add the following dependency to their `pom.xml` for this component:

```
<dependency>
  <groupId>org.apache.camel</groupId>
  <artifactId>camel-mvel</artifactId>
  <version>x.x.x</version>
  <!-- use the same version as your Camel core version -->
</dependency>
```

URI format

```
mvel:templateName[?options]
```

Where **templateName** is the classpath-local URI of the template to invoke; or the complete URL of the remote template (eg: `file://folder/myfile.mvel`).

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

Options

Option	Default	Description
contentCache	true	Cache for the resource content when it is loaded. The cached resource content can be cleared via JMX using the endpoint's <code>clearContentCache</code> operation.
encoding	null	Character encoding of the resource content.

Message Headers

The `mvel` component sets a couple headers on the message.

Header	Description
CamelMvelResourceUri	The templateName as a String object.

MVEL Context

Camel will provide exchange information in the MVEL context (just a `Map`). The `Exchange` is transferred as:

key	value
exchange	The <code>Exchange</code> itself.
exchange.properties	The <code>Exchange</code> properties.
headers	The headers of the In message.
camelContext	The Camel Context instance.
request	The In message.
in	The In message.
body	The In message body.
out	The Out message (only for InOut message exchange pattern).

response	The Out message (only for InOut message exchange pattern).
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Hot reloading

The mvel template resource is, by default, hot reloadable for both file and classpath resources (expanded jar). If you set `contentCache=true`, Camel will only load the resource once, and thus hot reloading is not possible. This scenario can be used in production, when the resource never changes.

Dynamic templates

Camel provides two headers by which you can define a different resource location for a template or the template content itself. If any of these headers is set then Camel uses this over the endpoint configured resource. This allows you to provide a dynamic template at runtime.

Header	Type	Description
CamelMvelResourceUri	String	A URI for the template resource to use instead of the endpoint configured.
CamelMvelTemplate	String	The template to use instead of the endpoint configured.

Samples

For example you could use something like

```
from("activemq:My.Queue").
  to("mvel:com/acme/MyResponse.mvel");
```

To use a MVEL template to formulate a response to a message for InOut message exchanges (where there is a `JMSReplyTo` header).

To specify what template the component should use dynamically via a header, so for example:

```
from("direct:in").
  setHeader("CamelMvelResourceUri").constant("path/to/my/template.mvel").
  to("mvel:dummy");
```

To specify a template directly as a header the component should use dynamically via a header, so for example:

```
from("direct:in").
  setHeader("CamelMvelTemplate").constant("@{\\"The result is \\" + request.body * 3}\\" }").
  to("velocity:dummy");
```

See Also

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