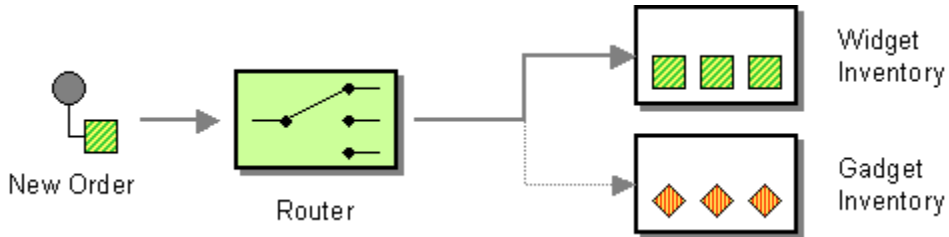# Content Based Router

Describes the examples of Content Based Router Pattern.

Content-Based Router (CBR) is a message router that **routes a message to a destination based on its content**. The content could be a message header, the payload data type in body, part of the payload itself - anything in the message exchange.

New Order → Router → Widget Inventory / Gadget Inventory

<table>
<tr><th>Simple syntax</th></tr>
</table>

```
from(URI)
  .choice()
   .when(predicate)
    .to(URI)
    .log("message")
   .when(predicate)
    .to(URI)
   .otherwise()
    .to(URI)
  .end();
```

where **predicate** is a condition like:

<table>
<tr><th>Example predicates</th></tr>
</table>

```
header("CamelFileName").endsWith(".xml")

header("myCommand").isEqualTo("firstCommand")
```

Example routebuilder class with CBR pattern

```java
public class ContentBasedRouterRouteBuilder extends SpringRouteBuilder{

    @Override
    public void configure() throws Exception {

        from("direct:start").routeId("startRouteId")
            .log("Command name = '${header.myCommand}'")
            .choice()
                .when(header("myCommand").isEqualTo("firstCommand"))
                    .log("I am firstCommand")
                    .to("direct:first")
                .when(header("myCommand").isEqualTo("secondCommand"))
                    .log("I am secondCommand")
                    .to("direct:second")
                .otherwise()
                    .log("Other or no command")
            .end()
            .log("===")
            .to("mock:finish");

   ...
      }
  }
```

Full example source code with tests

- Github resource example

Resources

- Book EIP Patterns: Content Based Router
- Content Based Router