

FAQ

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Here are a list of commonly asked questions and answers. If you have any questions which are not on this list, please talk to us on the [Forums](#).

We [welcome contributions](#) and this entire website is a [wiki that you can edit](#) so please join in and help us make the documentation better!

General Questions

General questions about Camel

- [Can I get commercial support](#)
- [Can I use Camel on Java 1.4](#)
- [Does Camel work on IBM's JDK?](#)
- [How can I get help](#)
- [How can I get the source code](#)
- [How does Camel compare to Mule](#)
- [How does Camel compare to ServiceMix](#)
- [How does Camel compare to ServiceMix EIP](#)
- [How does Camel compare to Synapse](#)
- [How does Camel work](#)
- [How does Camel work with ActiveMQ](#)
- [How does Camel work with ServiceMix](#)
- [How does the Camel API compare to](#)
- [How does the website work](#)
- [How do I become a committer](#)
- [How do I compile the code](#)
- [How do I edit the website](#)
- [How do I run Camel using Java WebStart](#)
- [If I use ServiceMix when should I use Camel](#)
- [Is Camel an ESB](#)
- [Is Camel IoC friendly](#)
- [Running Camel standalone](#)
- [What are the dependencies](#)
- [What is a router](#)
- [What is Camel](#)
- [What is the license](#)
- [What jars do I need](#)
- [What languages are supported](#)
- [What platforms are supported](#)
- [Why the name Camel](#)

Using Camel Questions

Questions on using Apache Camel

- [Classloader issue of servicemix-camel component](#)
- [How do I specify which method to use when using beans in routes?](#)
- [How can I create a custom component or endpoint](#)
- [How can I get the remote connection IP address from the camel-cxf consumer ?](#)
- [How can I stop a route from a route](#)
- [How can webservice clients see remote faults with stacktraces when using camel-cxf](#)
- [How does Camel look up beans and endpoints](#)
- [How do I add a component](#)
- [How do I change the logging](#)
- [How Do I Configure Endpoints?](#)
- [How do I configure password options on Camel endpoints without the value being encoded](#)
- [How do I configure the default maximum cache size for ProducerCache or ProducerTemplate](#)
- [How do I configure the maximum endpoint cache size for CamelContext](#)
- [How do I debug my route](#)
- [How do I disable JMX](#)
- [How do I enable streams when debug logging messages in Camel](#)
- [How do I handle failures when consuming for example from a FTP server](#)
- [How do I import rests from other XML files](#)
- [How Do I Import Routes From Other XML Files?](#)
- [How do I let Jetty match wildcards](#)
- [How do I name my routes?](#)
- [How do I restart CamelContext](#)
- [How do I retrieve the thrown Exception during processing an Exchange](#)
- [How do I retry failed messages forever](#)
- [How do I retry processing a message from a certain point back or an entire route](#)
- [How do I reuse the ContextTestSupport class in my unit tests](#)
- [How do I run ActiveMQ and Camel in JBoss](#)
- [How do I set the max chars when debug logging messages in Camel](#)

- How do I specify time period in a human friendly syntax
- How do I use a big (uber) JAR?
- How do I use Camel inside ServiceMix
- How do I use Spring Property Placeholder with Camel XML
- How do I use URIs with parameters in XML
- How do I write a custom Processor which sends multiple messages
- How should I invoke my POJOs or Spring Services
- How should I package applications using Camel and ActiveMQ
- How to avoid importing bunch of cxf packages when start up the camel-cxf endpoint from OSGi platform ?
- How to avoid sending some or all message headers
- How to define a static camel converter method in Scala
- How to remove the http protocol headers in the camel message?
- How to send the same message to multiple endpoints
- How to switch the CXF consumer between HTTP and HTTPS without touching the Spring configuration
- How to use a dynamic URI in to()
- How to use extra camel componets in servicemix-camel
- How to validate the camel-1.x context xml from Apache Camel web site?
- Is there an IDE
- Should I deploy Camel inside the ActiveMQ broker or in another application
- Using camel-core-tests.jar
- Using getIn or getOut methods on Exchange
- Why can't I use + sign in my password
- Why can I not use when or otherwise in a Java Camel route
- Why does FTP component not download any files?
- Why does my file consumer not pick up the file, and how do I let the file consumer use the Camel error handler?
- Why does useOriginalMessage with error handler not work as expected?
- Why do my message lose its headers during routing?
- Why is my message body empty?
- Why is my processor not showing up in JConsole
- Why is the exception null when I use onException
- Why use multiple CamelContext

Logging Questions

Questions on logging output from Camel to a console, using the [Log](#) endpoint or JDK 1.4 logging or Log4j etc

- How do I enable debug logging
- How do I use Java 1.4 logging
- How do I use log4j

Camel Endpoint Questions

Questions on using the various Camel [Components](#) and [Endpoint](#) implementations

- How do I invoke Camel routes from JBI
- How Do I Make My JMS Endpoint Transactional?
- How do I set the MEP when interacting with JBI?
- How do the direct, event, seda and vm endpoints compare
- How do the Timer and Quartz endpoints compare

Component Questions

Questions on using specific components

JMS Questions

Questions on using the [JMS](#) endpoints in Camel

- Why does my JMS route only consume one message at once

Common Problems

Common Problems that people have when riding the Camel

- Exception - BeanDefinitionStoreException
- Exception - javax.naming.NoInitialContextException
- Exception - org.apache.camel.NoSuchEndpointException
- Exception - org.xml.sax.SAXParseException
- Memory leak when adding and removing routes at runtime
- Why do Camel throw so many NoClassDefFoundException on startup
- Why does Camel use too many threads with ProducerTemplate
- Why does maven not download dependencies

Acknowledgment