Celtix Technology FAQ

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Prerequisites

What are the prerequisites for using Celtix?

For running Celtix-enabled applications you need to have a Java 5 JVM. An application server is not required to run Celtix-enabled applications.

To develop services using Celtix, you need Sun Microsystem's Java 5 JDK.

Does the Celtix runtime require a J2EE container?

No. Celtix does not require either a J2EE container or a Web container.

Standards

What Web service standards does Celtix support?

Celtix implements the following Web service standards:

- JAX-WS 2.0
- WS-ReliableMessaging(WS-RM)
- WS-Addressing
- WSDL 1.1
- SOAP 1.1

JAX-WS

How does Celtix allow you to service-enable your applications?

Celtix implements the JAX-WS 2.0 specification. JAX-WS 2.0 provides a straightforward way of to service-enable your applications using the Java 1.5 `Annotation` mechanism. It also provides a programming model that enables the creation of Web services-ready Java applications.

Has Celtix extended JAX-WS in any way?

Yes. Celtix has extended JAX-WS by adding the concept of *system handlers*. This allows developers to attach handlers at various points within the invocation chain, giving them more power to interact with the data as it flows in and out of Celtix.

Messaging

Does Celtix provide messaging capabilities?

Celtix supports a means to deliver messages to a JMS implementation.

Does Celtix depend on any JMS implementation?

Celtix is not based on a particular JMS implementation. It supports any JMS implementation and ships with the open source ActiveMQ JMS implementation.

J2EE

Can Celtix interoperate with a J2EE container?

While Celtix does not require a J2EE application server, Celtix artifacts can be deployed into a J2EE container.

JBI

What is JBI?

JBI stands for Java Bussines Integration. It is a standardized set of APIs, Service Provider Interfaces (SPIs) and technologies, maintained through the Java Community Process, for integration of business components.

How does Celtix relate to JBI?

At a quick glance Celtix and a JBI implementation may appear to be addressing the same set of problems. However, Celtix is not a JBI implementation. Unlike JBI, Celtix provides a much more extensible framework for building services. Its focus is to provide a rich framework for linking non-Java, non-Web Service artifacts as well as building feature rich Web services. Celtix is intended to complement JBI. To this end, it is possible to deploy Celtix runtime components and Celtix developed services inside a compliant JBI container.

SCA

What is SCA?

SCA stands for Service Component Architecture. It is a set of specifications that describe a framework for building applications and systems using SOA concepts. One of the driving concepts behind SCA is that applications and systems are built up by linking services into assemblies.

How does Celtix relate to SCA?

SCA focuses on assembling service implementations into complex business applications. Celtix focuses on implementing individual services. Celtix services can be consumed by SCA implementations. Currently, the Celtix project is working with the Tuscany project to ensure robust integration between Celtix services and SCA implementations.

Management

What are Celtix's management capabilities?

Celtix does not provide a tool for managing deployed Celtix artifacts. However, all of the internal components of Celtix are instrumented using JMX. In addition, Celtix supports adding custom JMX instrumentation to any services developed using Celtix. Therefore, Celtix artifacts can be managed by any JMX compliant management tool.

BEPL

Does Celtix include a BPEL engine for service orchestration?

Celtix does not include a native BPEL orchestration engine. However, Celtix services can be orchestrated using both open source and commercial BPEL engines including Active Endpoints, Intalio and others. There is a demo that illustrates Celtix working with Intalio's BPEL offering on the demo page at http://celtix.objectweb.org/demos/index.html. Javascript could also be used as an alternative to BPEL to create microflows.