

IONA and Open Source

Open Source SOA for the Enterprise

IONA's approach to open source service-oriented architecture (SOA) software combines the speed and innovation of open source software with the reliability and expertise of commercially-provided enterprise services. Open source software removes the barrier of upfront investment, reduces the risk of vendor lock-in and provides greater flexibility for users as they adopt and implement SOA.

IONA's commitment to open source software is part of its 15-year heritage of solving the most complex integration problems by applying open, standards-based solutions. An industry leader in integration and SOA, IONA has the proven expertise to design a highly flexible, distributed SOA infrastructure for the Global 2000 using standardized components. IONA customers built the first generation of SOA with its standards-based CORBA technology in the 1990s. IONA has extended that heritage with its next generation enterprise service bus (ESB), Artix, and its leadership and involvement in a broad array of open source projects that enable the adoption of SOA.

In a free and open marketplace, the best ideas win. IONA shares its expertise, ideas, and technology to create and deliver solutions that help customers succeed. In addition to providing leadership in open source projects like the Eclipse SOA Tools Platform (STP) project, Apache CXF, and others, IONA unites the best design-time tools, messaging systems, runtime containers, and routing engines that open source has to offer into a complete and stable ESB. In addition, IONA provides a comprehensive set of services to make deploying open source software a viable option for mission-critical enterprise integration.

More and more, CIOs are turning to commercial suppliers that act as intermediaries with open source communities. By combining the efforts of the open source community with the assurance of a commercial supplier like IONA, customers gain greater choice and control with lower total cost of ownership.

"By 2010, Global 2000 IT organizations will use open-source products in 80 percent of infrastructure-focused software investments and 25 percent of business software investments (0.8 probability)."

Market Focus: Open-Source Software, Worldwide, 2005-2010 June 7, 2006 Laurie F. Wurster, et al., Gartner



Making Software Work Together™

IONA Open Source Product Offerings

IONA makes it easier to use open source SOA infrastructure by integrating leading open source technologies into convenient packages that are fully tested and certified to work together. IONA's family of distributed SOA infrastructure products includes three open source offerings: Celtix Enterprise, Celtix Advanced Service Engine (ASE), and Celtix Advanced Messaging.

Celtix Enterprise—The Open Source ESB

With Celtix Enterprise, IONA has assembled and certified a best-of-breed set of open source components into a fully functional ESB for cost effectively building a SOA. Companies seeking an open source option for system integration and SOA implementation will find a complete and stable solution that combines the best design-time tools, messaging systems, runtime containers and routing engines open source has to offer in one convenient package.

Fully integrated, tested and supported by a SOA and integration market leader, Celtix Enterprise incorporates technology from multiple open source projects, including:

- Eclipse STP Project SOA Tooling
- Apache CXF Service Engine
- Apache Qpid Advanced Messaging
- Apache ActiveMQ (in incubation) JMS broker
- Apache ServiceMix (in incubation) JBI container
- Apache Tomcat container for Java servlets
- Spring Framework Lightweight Container

Two key components of Celtix Enterprise - Celtix ASE and Celtix Advanced Messaging - can be installed and deployed separately.

Celtix Advanced Service Engine (ASE)

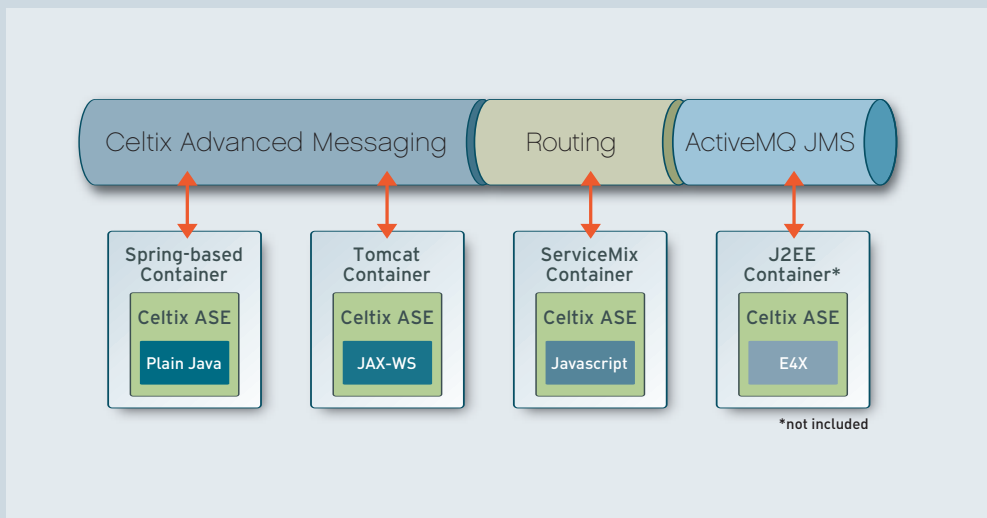
Celtix ASE, a pluggable service framework based on code from Apache CXF, provides the easiest environment available for Java developers to create Web services. Celtix ASE is the only services framework that fully implements the JAX-WS 2.0 specification, radically simplifying the process of exposing existing Java code as a Web service or writing new Web services. Celtix ASE enables developers build high-performance Web services that are scalable, secure, and robust in minutes, freeing them to concentrate on the core aspects of their applications.

Celtix ASE makes it easy to create new and existing services across heterogeneous environments by providing design-time tools and runtime infrastructure that are technology-neutral. The pluggable and extensible architecture allows Celtix ASE's small footprint to work in a variety of container servers, with a variety of languages, and with several messaging systems.

Celtix Advanced Messaging

Celtix Advanced Messaging is a high-performance messaging platform that supports multiple messaging modalities, including point-to-point and publish and subscribe. A message broker implementation of the Advanced Message Queuing Protocol (AMQP), Celtix Advanced Messaging incorporates technology from the code for the Apache Qpid open source project.

Celtix Enterprise Runtime Architecture



Celtix Enterprise has a pluggable and extensible architecture that allows Celtix ASE's small footprint to work in a variety of containers, with a variety of languages, and with several messaging systems.

IONA Open Source Services

Enterprise Support for Open Source Offerings

Interoperable, open source products built on standards allow companies to choose which components to leverage and what level of support is required. Avoid the limitations of community-provided support by subscribing to enterprise-class support services from a trusted vendor like IONA.

Commercial distributions of open source software, like Celtix Enterprise, undergo rigorous testing and certification. By subscribing to IONA open source services, organizations can mitigate the uncertain timeframes and development roadmaps often associated with open source.

IONA leverages its significant expertise in large scale, mission-critical, distributed systems to combine the benefits of open source with the assurance of enterprise-class technical support. IONA provides a comprehensive set of services to ensure success using IONA's open source offerings. With IONA support, training and consulting, companies can build production-quality solutions with confidence. Support packages range from incident-based offerings to enterprise support for mission-critical environments.

Technical Support

IONA support packages combine the confidence of working with an experienced and professional organization with the innovation and cost savings of open source software. IONA brings the best of both worlds together in a safe and secure environment.

All IONA support packages, Developer, Standard and Enterprise Support, are designed to support all projects, from small trials to large, mission-critical installations. The packages provide prompt and reliable technical support to help optimize development time and maximize the return on existing and future IT investments.

Consulting

IONA couples its commitment to open source with years of experience helping customers deploy distributed computing environments to deliver consulting packages designed to make teams productive and self-sufficient as quickly as possible. IONA consulting combines the safety and security of working with an experienced and professional organization with the innovation and cost savings of open source software.

IONA offers a quick start package and customized consulting that reduces risk and shortens development time by guiding teams through the entire project lifecycle from initial requirements gathering, architecture and design to implementation and deployment.

Training

IONA has applied its years of teaching, speaking, publishing and consulting experience to its open source offerings, resulting in training that delivers comprehensive preparedness for all open source endeavors. IONA training courses combine the safety and security of working with an experienced and professional organization with the innovation and cost savings of open source software. Training courses are available for both developers and architects, and are designed to support all projects from small trial to large, mission-critical installations. The courses teach how to fully leverage Celtix Enterprise using real-world case studies and how to identify areas where IONA can deliver immediate business value to maximize the return on existing and future IT investments.

Support Options

	FREE	DEVELOPER	STANDARD	ENTERPRISE
Online Resources				
Documentation	✓	✓	✓	✓
Release Notes	✓	✓	✓	✓
Knowledge Base	✓	✓	✓	✓
Product Releases	✓	✓	✓	✓
Interactive Issue Tracking	—	✓	✓	✓
Technical Support Services				
Phone and Email Support	—	8 x 5 (6 Incident Pack)	8 x 5 Unlimited	24 x 7 Unlimited
Response Time (based on severity)	—	1–4 days	1–4 days	< 1 day
Fixes for Confirmed Level I and II Issues	—	—	✓	✓
IONA Engineering Support	—	—	✓	✓

IONA's Leadership in Open Source

Driving Projects and Defining Standards

IONA understands that developers are the foundation of open source communities and that community participation drives innovation. IONA developers lead several open source SOA projects and actively participate in many others as committers.

IONA and Eclipse

IONA contributes dedicated, experienced development resources to the Eclipse Foundation and is leading the Eclipse STP project, a top-level project whose mission is to provide best-of-breed, open source SOA tooling. Several IONA developers have earned committer status for the STP project and IONA promotes its STP efforts as an integral part of its Artix offering. Eclipse members include Eric Newcomer, IONA CTO and Eclipse board member, and Oisín Hurley, IONA Distinguished Engineer and Project Management Committee Lead. Other participants in the STP project include IBM, BEA, Sybase, and Intalio.

Key Features of STP

- An integrated developer tooling platform for SOA-based infrastructure, STP creates the foundation for an extensible toolset for building SOA applications.
- STP can be leveraged by all SOA systems, spanning multiple technologies like the Service Component Architecture (SCA) and Java Business Integration (JBI), and multiple functional areas like Enterprise Service Bus (ESB) and process integration.
- Tooling for Artix, IONA's company developed ESB, is based on Eclipse and IONA has contributed much of its source code to STP.
- JAX-WS tooling, also developed and contributed by IONA, can be used with CXF or other JAX-WS run-times to create Web services.

Apache CXF

Apache CXF is a high-performance, fully-featured Web services framework that simplifies the construction, integration, and flexible reuse of technical and business components using a standards-based SOA. Apache CXF is a merger of the popular and widely adopted ObjectWeb Celtix and Codehaus XFire service framework projects. IONA initiated and led the development effort of the ObjectWeb Celtix project, which provided the first generation of pluggable services framework technology now available as part of Apache CXF. Apache CXF is currently undergoing Incubation at the Apache Software

Foundation.

Apache Qpid

IONA has joined forces with JPMorgan Chase & Co., Cisco Systems, Red Hat, Inc. and others to create a new specification for defining and developing messaging infrastructure that is technology agnostic, standards-based, open and interoperable. Apache Qpid is an open source message broker that provides open and interoperable, multiple language implementations of the AMQP specification and related technologies including PGM, transaction management, queuing, distribution, security, management and heterogeneous multi-platform support for messaging. Apache Qpid is currently undergoing Incubation at the Apache Software Foundation.

Apache Tuscany

Apache Tuscany provides multiple language implementations of the SCA specifications and related technologies such as Service Data Objects (SDO). IONA's involvement as a co-author of the SCA specification is a natural fit with its ongoing participation in standards-based and open source distributed computing initiatives. Apache Tuscany is currently undergoing Incubation at the Apache Software Foundation.

US Headquarters

IONA Technologies, Inc.
200 West Street Waltham, MA 02451 USA
T : + 1.781.902.8000 F : + 1.781.902.8001

European Headquarters

IONA Technologies PLC
The IONA Building
Shelbourne Road, Dublin 4, Ireland
T : + 353.1.637.2000 F : + 353.1.637.2888

Asia-Pacific Headquarters

IONA Technologies Japan, Ltd.
SKI Akasaka Building,
3-21-16 Akasaka,
Minato-ku,
Tokyo 107-0052, Japan
T : + 813.3560.5611 F : + 813.3560.5612

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For more information:
www.iona.com/celtix
www.iona.com/opensource
www.eclipse.org
<http://incubator.apache.org/>

To download Celtix Enterprise:
www.iona.com/celtix/

To inquire about support:
opensource@iona.com
or 1.877.CELTIX1 (US Toll Free)
+1.781.902.8081 (US Toll)
+353.1.637.2000 (EU Toll)



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