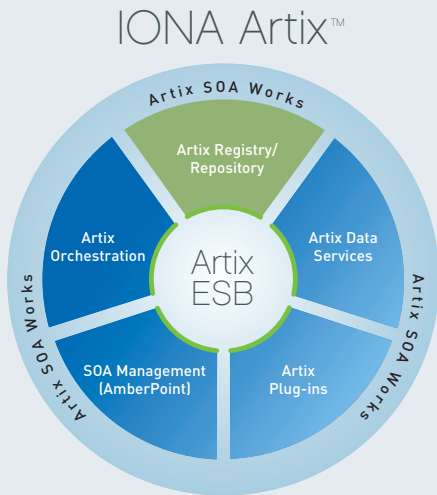# IONA Artix™ Registry/Repository

Key Component for Active SOA Governance

Designed for complex, heterogeneous IT environments, Artix Registry/Repository effectively addresses the challenges of deploying and managing a distributed service-oriented architecture (SOA) infrastructure. Artix Registry/Repository allows organizations to realize the potential of SOA by providing them with a powerful command and control center to define, promote and measure service usage. Artix Registry/Repository provides a searchable listing of all available services, governance policies and associated metadata, and uniquely leverages this information to deploy and monitor a network of services for:

❯ **Increased services reuse**—the built-in reference of available services allows developers to reuse existing services, avoiding duplication of efforts and the proliferation of redundant services

❯ **Enhanced developer efficiency**—the ability to design once and deploy multiple times promotes consistency and reduces development cycles

❯ **Enforced governance**—validating deployed services against metadata stored in Artix Registry/Repository automates policy enforcement throughout the service lifecycle

The ability to drive and validate the deployment of services and policies into a distributed SOA network differentiates Artix Registry/Repository from all other available governance solutions that serve as static archives.

IONA Artix™

Artix SOA Works
- Artix Registry/Repository
- Artix Data Services
- Artix Plug-ins
- SOA Management (AmberPoint)
- Artix Orchestration
- Artix ESB

Key Features

- **CAPTURE AND DISCOVERY**
  Extracts contracts, configuration, and enterprise Qualities of Service (QoS) information about existing services and stores it as metadata in a searchable registry to facilitate service reuse and impact analysis

- **SERVICE PROVISIONING**
  Automates new service configuration by packaging policy statements and implementations into runtime artifacts, configuration files, and execution scripts for deployment, eliminating error-prone and time-consuming manual provisioning

- **SOA AUDIT AND VALIDATION**
  Deployed services are validated against user definable rules for architectural consistency, schema usage and QoS application, ensuring continuous policy governance

- **NETWORK VISUALIZATION**
  Eclipse-based tooling console provides a way to define and edit rules, relationships and BPEL orchestrations, to help architects govern, audit usage, and identify areas of reuse within a SOA network

"Unlike passive registry/repository solutions, which merely act as a searchable and publishable catalog of services, IONA's Artix Registry/Repository can perform compliance checks to ensure that deployed services are adhering to policies and dependencies defined within Artix Registry/Repository without requiring an external governance product."

-Brad Shimmin,
Principal Analyst, Application Infrastructure, Current Analysis

IONA®

Making Software Work Together™

Artix Registry/Repository Details

Service Registry
Store and manage metadata, policies, and implementation assets, and other vital information on services in the SOA network
- Capture and manage policy and implementation information on services in the SOA network as metadata
- UDDI integration
- Role-based security
- Support for Oracle, Derby, and PostgreSQL through JDBC

Service Provisioning Wizards
Reuse policies and implementation information when deploying new services and assemblies
- Use wizards to extend SOA network with new services based on stored policies and rules
- Automatically package and provision services with correct security, routing, messaging, transport, QoS, and custom business rules in place
- Configure and extend existing services with new policy requirements

Policy Rules Engine
Create and enforce business and IT governance rules
- Policy rules engine enforces security, routing, messaging, transport, QoS, and custom business rules
- Policies, rules and triggers are stored and managed for reuse
- Service configuration and implementation are audited and validated at runtime against policy information stored in Artix Registry/Repository
- Governance rule validation detects policy conflict and infrastructure incompatibilities

SOA Works
SOA network visualization with Eclipse-based GUI tools
- **Repository Explorer**—create and manage SOA network metadata, users and roles
- **Infrastructure Explorer**—view installations, containers, and services
- **Policy Editor**—view all policies in place on SOA network endpoints
- **Service and Assembly Editor**—visually configure, package and provision endpoints
- **Routing Editor**—create complex routing chains based on content, attributes, configuration and more

IONA Leadership

For more than a decade, IONA has been a world leader in delivering high-performance service-oriented middleware solutions and integration solutions for enterprise IT environments. IONA pioneered standards-based integration with its CORBA-based Orbix product family, and has a proven track record of delivering on the promise of SOA, including business agility, increased ROI and lower operational costs.

IONA has a proven track record of delivering mission-critical infrastructure and has built many of the earliest and largest SOAs for Global 2000 customers, including Credit Suisse, Reuters, Raymond James & Associates, Marconi, and Deutsche Post (DHL).

IONA Artix enables customers to leverage SOA to generate greater ROI, streamline and modernize IT environments and lower the total cost of IT operations. IONA Artix provides the most flexible deployment options available for enterprise SOA needs. IONA's advanced SOA infrastructure suite supports distributed applications and services, allowing organizations to think big, start small, and scale fast.

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