

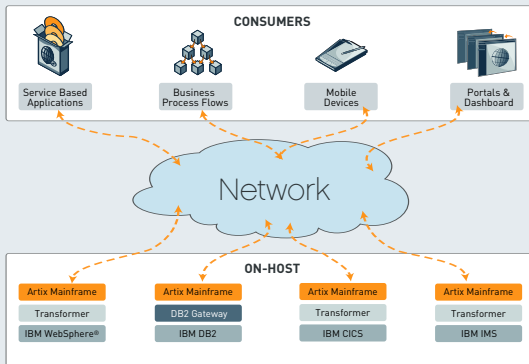
IONA Artix™ Mainframe

Leveraging Mainframe Investments in an SOA

The vast majority of enterprises continue to use mainframes for their mission-critical applications, leveraging benefits such as robustness and stability that are core to the mainframe environment. It is estimated that as much as 70% of business logic and data is still housed on mainframes.

As client technologies continue to evolve and organizations choose to leverage a service-oriented architecture (SOA), they must ensure that mission-critical mainframe applications will be readily accessible to the network. As a provider of mainframe integration solutions for over 10 years, IONA includes Artix Mainframe in its product suite to service-enable existing resources on the mainframe. IONA provides a set of tools tailored specifically to a rapid deployment in a phased manner. Artix Mainframe enables:

- **Incremental SOA adoption**—Artix Mainframe creates a network of smart, standards-based endpoints using existing infrastructure so enterprises can begin with low-risk, high-value SOA projects and gradually add services as needed.
- **Dynamic and adaptable deployments**—Artix Mainframe endpoints are independently configurable so services can be extended, modified and hot deployed without disrupting the rest of the enterprise.
- **Technology-neutral solutions**—Artix is a multi-platform and multi-protocol solution that connects diverse and lightweight endpoints without an expensive and cumbersome centralized server, and without promoting vendor lock-in.



Why Service-Enable the Mainframe?

EASY AND SECURE ACCESS TO MAINFRAME BUSINESS LOGIC

- Create reusable services from mainframes that are accessible from anywhere
- Support the industry-wide trend toward SOA—open enterprise black boxes, such as ERP products and mainframe applications

COST OF OWNERSHIP

- Reduce mainframe expertise required to support off-host access
- Decrease maintenance/operational overhead
- Eliminates the need for highly specialized IMS/CICS operator to maintain Artix

RETURN ON INVESTMENT

- Reuse proven business services
- Increase productivity of non-mainframe developers with less training
- Leverage infrastructure support knowledge

BUSINESS AGILITY

- Respond to new business requirements quickly
- Orchestrate on-host and off-host services in comprehensive business processes

"We've seen renewed interest in revitalizing mainframe applications, including the use of service-oriented architecture (SOA) as a modernization strategy for these applications."

-Dale Vecchio,
Research VP, Gartner, Inc.



Making Software Work Together™

A Quick and Easy Solution for Integration Challenges Involving Mainframe Resources

Artix Mainframe provides discrete and intuitive processes that allow existing mainframe resources to be rapidly exposed to the network using standards-based technologies such as Web services and CORBA. Artix Mainframe further allows for the deployment of new mainframe-based Web service applications and is ideal for customers who want to expose their mainframe resources in a manner that can meet the ever-changing demands of client and mid-tier systems.

Artix Mainframe exposes existing IMS & CICS COBOL programs or DB2 SQL queries on z/OS as Web services and CORBA objects without the need for code changes to those applications. This includes support for creating web services from existing CICS and IMS screen definitions, BMS and MFS respectively. Artix Mainframe also provides support for creating new z/OS-based Web service applications from WSDL and IDL. Using Artix Mainframe, an application may be exposed as both a Web service and a CORBA server that can accept client requests via SOAP over HTTP/HTTPS, SOAP over Websphere MQ or IIOP/IIOPS thus allowing for the transformation of basic mainframe applications into true multi-protocol applications that are accessible throughout the entire enterprise.

Artix Mainframe Features

- COBOL and PL/I Web service authoring and client support
- Expose Legacy CICS, DB2, or IMS applications as Web services and CORBA objects
- Expose BMS-based CICS or MFS-based IMS applications as a set of individual screens
- Eliminate the CICS 32K COMMAREA limit
- Support SOAP over HTTP/HTTPS, SOAP over WebSphere MQ and CORBA to access the same CICS, IMS or PL/I application
- SOAP encoding support and WS-I compliance
- Highly optimized SOAP stack for fast processing of SOAP messages
- CSv2 Authentication over Transport support
- HTTP/HTTPS Basic Authentication support
- Supports IIOP/IIOPS to access CORBA resources
- Simplify creation of new mainframe applications from WSDL first approach through Eclipse tooling
- Create WSDL contracts on the fly, via Artix Transformer
- Quickly create COBOL and PL/I applications from CORBA IDL
- Cross-memory communication for mainframe Web service clients
- C++, SDK
- Securely integrates with TLS/SSL, SAF, Kerberos with RACF, CA-ACF2 and CA-Top Secret™
- Run COBOL or PL/I Web service client applications as batch programs
- Eclipse-based Web Services Designer
- Secure mainframe implementation
- Integration with the IONA Security Framework (iSF)
- Operator console integration
- Single sign-on token support
- Command-line utilities

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IONA Leadership

For more than a decade, IONA has been a world leader in delivering high-performance distributed SOA infrastructure 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.

Artix Mainframe is one component of IONA Artix, a comprehensive suite of products to streamline and modernize complex and heterogeneous IT environments. The suite includes:

- Artix ESB
- Artix Registry/Repository
- Artix Orchestration
- Artix Data Services
- Artix Mainframe
- SOA Management provided by AmberPoint

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