

PROGRESS[®] ARTIX[™]

Release Notes

Version 5.6, December 2011

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Updated: December 5, 2011

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New Features

The following features are new in Artix ESB 5.6:

- [C++ only release](#)
- [Actional C++ runtime integration](#)
- [MTOM Support in Artix C++](#)
- [Changes to C++ Compiler Support](#)

C++ only release

Artix ESB 5.6 for C++ marks the first release of Artix which only support the C++ application programming model.

Actional C++ runtime integration

Artix ESB's integration with the Progress Actional SOA management and monitoring application has been enhanced in this release. You can now use Actional to monitor your Artix ESB for C++ applications and services using the SOAP/HTTP and SOAP/JMS binding/transport. See the *Artix Management Guide*, for details.

MTOM Support in Artix C++

The Artix C++ runtime now fully supports Message Transmission Optimization Mechanism (MTOM), a specification for efficiently sending binary to and from Web services without having to re-encode the data as text. MTOM uses the XOP convention to mix textual and binary data in streams for transmission. MTOM is now supported with SOAP 1.1 and SOAP 1.2 bindings. See the *Artix Bindings and Transports, C++ Runtime* guide for details.

Changes to C++ Compiler Support

On Windows platforms, support for Visual Studio 2008 and Visual Studio 2010 has been added.

On Solaris platforms, support for Studio 12 Update 2 compiler has been added.

On HP-UX Itanium platforms, support for aCC 6.2.x compiler has been added.

On AIX platforms, support for XL C++ 10 and 11 has been added.

Supported Standards

Artix 5.6 supports the following XML and Web services specifications:

XML

- XML Namespaces 1.0
- XML Schema 1.0
- XPath 1.0
- XQuery 1.0
- XML Information Set

Messaging

- SOAP 1.1/1.2
- MTOM SOAP 1.2, 01-2005
- MTOM SOAP 1.1, 04-2006
- WS-Addressing 08-2004
- WS-Addressing 08-2005

Metadata

- WS-Policy 1.2, 04-2006
- WS-PolicyAssertions (partial)
- WS-PolicyAttachment (partial)
- UDDI v2

Security

- WS-Security 1.1 with SAML, Kerberos, X.509 profiles
- XML Signature 02-2002
- XML Encryption 12-2002
- WS-Trust 1.3
- SAML 1.1, 2.0 Token Profiles

Reliable Messaging

- WS-ReliableMessaging 1.1

Web Services Interoperability

- WS-I Basic Profile 1.1
- Simple SOAP Binding Profile

Transactions

- WS-AtomicTransaction

Migration Issues

Users migrating from Artix ESB 5.5 to 5.6 for C++ should bear the following in mind:

- [JAX-RPC no longer supported](#)
- [Java 1.5 no longer supported](#)

JAX-RPC no longer supported

The JAX-RPC programming model is not supported in this release. Java developers should migrate to the JAX-WS programming model.

Java 1.5 no longer supported

Java 1.5 support has been dropped in this release.

Java 6 has been certified on the latest available patch levels. For a full list of supported platforms, compilers and JDKs, see the *Installation Guide*.

Dropped Features

The following features are no longer supported in Artix ESB 5.6 for C++:

- **JAX-RPC programming model, runtime, and tools.**
- **OSGi** — Artix components can no longer be automatically deployed to an OSGi compliant container.
- **DB Service**
- **RMI**
- **Eclipse Designer** — Users must use the Artix Command Line tools for code generation, instead of using the Artix Designer. For more information, see the *Artix ESB Command Reference guide*.
- **Artix Update Tool**

Documentation Updates

The Artix ESB 5.6 documentation is available at

<http://communities.progress.com/pcom/docs/DOC-106903>

The following books have been updated in this release:

- Bindings and Transports, C++ Runtime
- Installation Guide
- Getting Started with Artix
- Writing Artix ESB Contracts
- Developing Advanced Artix Plug-Ins in C++
- Developing Artix Applications in C++
- Building Service Oriented Architectures Using Artix ESB
- Configuring and Deploying Artix Solutions, C++ Runtime
- Locator Guide
- Router Guide, C++ Runtime
- Session Manager Guide
- Transactions Guide, C++
- WSDLGen Guide
- Artix ESB Command Reference
- Configuration Reference, C++ Runtime
- Artix for CORBA
- Using the Artix Library
- Security Guide
- WSDL Extension Reference
- Artix WSDL Extension Reference

Bugs Fixed/Enhancements

The following bugs have been closed in Artix ESB 5.6:

Table 1: *Bugs Fixed in Artix ESB 5.6*

Bug #	Description
ART-10121	Bogus "transfer-encoding: chunked" header being set on outgoing callback invocation.
ART-10606	Artix client fails to process correct SOAP message.
ART-10703	HA-enabled master locator crashes when receiveing a bogus SOAP request.
ART-10711	Server cores with upgraded mtosi wsdl.
ART-10739	Artix HTTP to HTTPs JAX-RPC service spins at 100% CPU when it should be idle.
ART-10767	Tuxedo plugin failing to re-size FML buffer.
ART-10768	Artix server response moving namespace from SOAP body to SOAP header in the case of "xsd:##any element" set in wsdl.
ART-10775	"it_container_admin -port 441 -listservices" command causing memory leak in the container.
ART-10779	SOAP 1.1 node gets stuck rejecting all requests with VersionMismatch fault.
ART-10782	Stale endpoints remain indefinitely in newly-promoted Locator replica.
ART-10800	Artix container core when opening SSL connections.
ART-10801	Command line Artix configuration overrides "-BUSCONFIG_<configuration variable><configuration value>" are ignored.
ART-10804	Artix firewall classloader does not work with Artix5.5.
ART-10809	Artix is inserting incorrect types when array types defined in XSD are set to null in Java code.

Table 1: *Bugs Fixed in Artix ESB 5.6 (Continued)*

Bug #	Description
ART-10819	Client Failover for Security Service fails with "policies:asp:enable_issue_external_token" set to true.
ART-10845	Artix container crash during shutdown.
ART-10850	it_container shutdown blocked during locator handshake.
ART-10866	Need the ability to close HTTP/S connections in an Artix server after each client request has completed.
ART-10869	Artix Locator (Master) keeps stale endpoints.
ART-10872	JAX-RPC server crashes when encoding="utf-8" is not in XML directive on Linux 64 bit.
ART-10879	Error unmarshaling a user fault that contains an <xsd:choice>.
ART-10890	Artix it_container crashes when receiving invalid base64 encoded data.
ART-10896	Issue unmarshalling optional elements in XML binding.
ART-10898	Can not retrieve certificate principal info in an Artix JAX-RPC plugin.
ART-10899	Artix locator fails to clean out stale endpoints from database on master election.
ART-10900	List endpoints returns marshalling exception.
ART-10902	Master replica blocks with all threads attempting to resolve WSDL and connections opened back on itself.
ART-10904	Mid-tier JAX-RPC application crashes when you send requests in parallel.
ART-10908	Artix fails to process chunked HTTP message, and resubmits HTTP requests.
ART-10952	Java stack overflow reported by wsdltocpp when the pattern constraining facet is used for multiple levels of XML schema type derivation.

Table 1: *Bugs Fixed in Artix ESB 5.6 (Continued)*

Bug #	Description
ART-10954	Compilation error in wsdltocpp-generated C++ code when the pattern constraining facet is used with certain XML schema types.
ART-9488	"transfer-encoding: chunked" HTTP header set on outgoing unchunked HTTP request.
ART-9581	Artix runtime Error - third party client namespace error is not correctly handled in Artix.