

PROGRESS[®] ARTIX[™]

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Enhancements

The following features are new in Artix 5.6.2:

- [IPv6 support](#)
- [Actional C++ runtime integration](#)
- [OpenSSL security toolkit](#)

IPv6 support

Artix provides support for Internet Protocol version 4 (IPv4) and Internet Protocol version 6 (IPv6). Artix supports IPv4 connections by default. IPv6 fixes a number of issues in IPv4, such as the limited number of available IPv4 addresses, and adds improvements in routing and network configuration.

IPv6 support is now available for the following transports on all supported platforms:

- HTTP, HTTPs
- IIOP (CORBA)
- Websphere MQ
- JMS

By default, applications are configured for IPv4 connections.

The following topics describe how to use the IPv4 and IPv6 configuration variables.

HTTP, HTTPS

There is only one configuration variable for configuring IPv6 for the HTTP Protocol, which is set to `false` by default:

```
policies:network:interfaces:prefer_ipv6
```

When the variable `policies:network:interfaces:prefer_ipv6` is set to `true` in the Bus or global configuration scope, Artix servers try to listen for connections from clients over IPv6, if IPv6 is not available, or if this variable is set to `false`, then IPv4 will be used.

From an Artix client's point of view, if this variable is set to `true`, then we try and communicate over IPv6 if possible, otherwise we drop back to IPv4.

IIO

Orbix servers listen for IPv4 connections only by default. The following configuration variables control this behavior for Orbix servers and clients:

```
policies:network:interfaces:prefer_ipv4  
policies:network:interfaces:prefer_ipv6
```

For example, to enable Orbix communication over IPv6 only, add the following setting in the ORB or global configuration scope:

```
policies:network:interfaces:prefer_ipv6 = "true";
```

Configuring IPv4 only communication

By default, `prefer_ipv4` is set to `true` and `prefer_ipv6` is set to `false`. To continue using Orbix where there is no requirement for IPv6 communication, you do not need to make any changes to configuration.

Note: This is the default behavior on any host (including dual-stack) where the hostname can be resolved to an IPv4 address. However, if the hostname can only be resolved to an IPv6 address, by default, `prefer_ipv4` is set to `false` and `prefer_ipv6` is set to `true`.

Configuring IPv4 and IPv6 communication

On hosts that are configured for IPv4 and IPv6 (dual-stack), you can configure Orbix servers to listen for connections from clients communicating over both IPv4 and IPv6. To run Orbix servers in this mode, use the following setting in the ORB or global configuration scope:

```
policies:network:interfaces:prefer_ipv4 = "false";
```

Servers started with this configuration listen for both IPv4 and IPv6 client connections. No special configuration is required for Orbix clients connecting to an Orbix server started in this mode.

Configuring IPv6 only communication

On hosts that are configured for IPv4 and IPv6 (dual-stack), you can configure Orbix servers and clients to communicate over IPv6 only using the following setting:

```
policies:network:interfaces:prefer_ipv6 = "true";
```

Servers started with this variable set at the global or ORB configuration scope listen for connections from clients connecting over IPv6. Clients with this configuration try to connect over IPv6 to the server.

Note: When this is set to `true`, no communication is possible from IPv4 clients trying to connect to the server where the server is running on Windows XP or the server is configured to write numeric addresses into the IOR. If the hostname can only be resolved to an IPv6 address, by default, the server only listens for IPv6 communication; there is no need to set any configuration for the server or client.

Websphere MQ

The internet protocol used to connect is controlled by the underlying Websphere MQ layer.

JMS

The internet protocol used to connect is controlled by the underlying JMS layer.

Actional C++ runtime integration

Artix ESB 5.6.2 for C++ 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 CORBA binding/transport, in addition to the SOAP/HTTP and SOAP/JMS bindings/transports.

To enable Actional monitoring of the CORBA binding, the "`corba_context`" and "`actional`" plugins need to be added to the `orb_plugins` list.

For example:

```
orb_plugins = ["local_log_stream", "iiop_profile", "giop",  
              "iiop", "corba_context", "actional"];
```

Artix ESB 5.6.2 for C++ incorporates Actional C SDK 8.2.3 to enable seamless Actional monitoring across Orbix and Artix products over SOAP/HTTP, SOAP/JMS, and CORBA.

For additional details, see the *Artix Management Guide*.

OpenSSL security toolkit

Artix 5.6.2 now supports the OpenSSL toolkit on all platforms.

In previous versions of Artix, TLS communication for C++ applications was performed using the third-party Baltimore toolkit.

In Artix 5.6.2, the OpenSSL toolkit is the default TLS toolkit for C++ applications. The Baltimore toolkit is now deprecated, and will be removed in a future release.

Artix 5.6.2 incorporates OpenSSL 1.0.1c and adds support for Transport Layer Security v1.2 (TLSv1.2).

By default, Artix 5.6.2 will use the highest protocol in the [TLSv1.2, SSLv3] range.

In order to use "`TLS_V1_2`", the key used to sign the certificate must be greater than 512 bits. Attempting to use TLSv1.2 with a certificate signed by a key of size 512 bits or smaller will result in a runtime error.

If the certificate in use was signed with a key of size 512 bits or smaller, "`TLS_V1`" or lower must be used:

```
policies:https:mechanism_policy:protocol_version =  
  ["TLS_V1", "SSL_V3"];
```

The deprecated Baltimore toolkit can be enabled by modifying the Artix configuration as follows:

```
initial_references:IT_TLS_Toolkit:plugin = "baltimore_toolkit";
plugins:baltimore_toolkit:shlib_name = "it_tls_baltimore";
policies:mechanism_policy:protocol_version = ["TLS_V1", "SSL_V3"];
policies:mechanism_policy:accept_v2_hellos = "true";
```

For more details on Artix security features, see the *Artix Security Guide*.

Supported Standards

Artix 5.6.2 for C++ 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 5.5 to 5.6.2 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.

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*.

Deprecated Features

The following features are deprecated in Artix ESB 5.6.2 for C++ and will be removed in a future release:

- Baltimore security toolkit

Dropped Features

The following features are no longer supported in Artix ESB 5.6.2 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 5.6.2 documentation is available at

<http://communities.progress.com/pcom/docs/DOC-107101>

The following books have been updated in this release:

- Installation Guide

Bugs Fixed

No bugs were fixed in Artix 5.6.2.