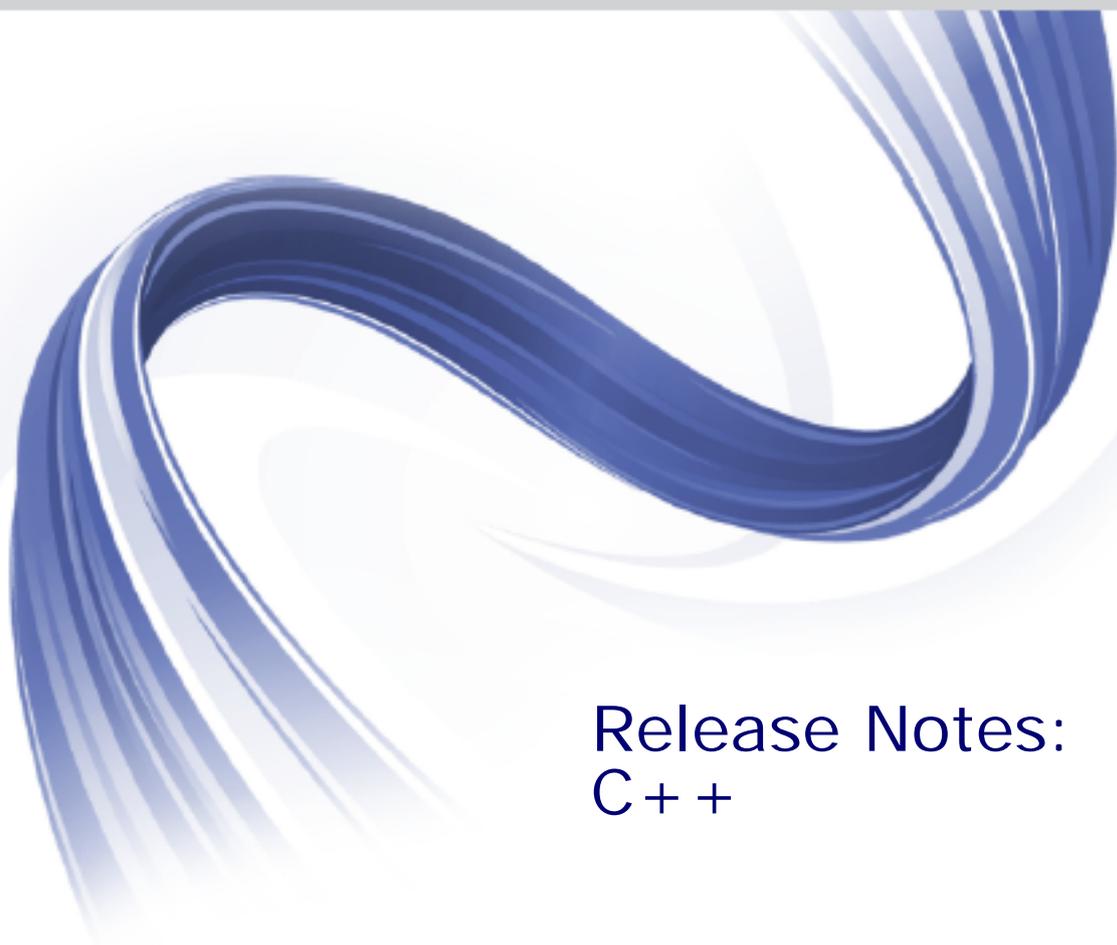




Artix 5.6.3

A decorative graphic consisting of several overlapping, wavy blue lines that curve and flow across the lower half of the page, creating a sense of motion and depth.

Release Notes:
C++

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Artix 5.6.3 for C++ Release Notes

These release notes contain information about the Artix 5.6.3 release from Micro Focus. They contain information that might not appear elsewhere in the documentation. Read them in their entirety before you install the product.

Artix 5.6.3 has been rebranded as a Micro Focus product.

Supported Standards

Artix 5.6.3 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 1.5, 07-2006
- 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 1.4
- SAML 1.1, 2.0 Token Profiles

Reliable Messaging

- WS-ReliableMessaging 1.1 and 1.2

Web Services Interoperability

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

Transactions

- WS-AtomicTransaction

CORBA Compliance

Artix 5.6.3 complies with the following specifications:

- CORBA 2.6.
- GIOP 1.2 (default), 1.1, and 1.0
- C++ Language Mapping (formal/99-07-41)
- IDL-to-Java Language Mapping (formal/99-07-53)

Platforms and Compilers

For the latest information on supported platforms and compilers, see the [Artix Supported Platforms page](#).

Dropped Features

The following features are no longer supported in Artix 5.6.3 for C++:

- Support for TIBCO Rendezvous has been discontinued.

Documentation Updates

The Artix 5.6.3 user documentation is available from <https://supportline.microfocus.com/productdoc.aspx>

All books have been rebranded as Micro Focus products, and updated.

Resolved Issues

The resolved issues that customers have reported are listed in this section. The numbers that follow each issue are the Reported Problem Incident number followed by the Customer Incident Numbers (in parentheses). RPIs that have numbers only (and no text) are included to confirm that the RPIs have been fixed, since no further information is required.

- The Artix security service now issues an error message and refuses to start if its principal sponsor certificate has expired or is not yet valid.

603937

- The Artix SOAP/HTTP server no longer crashes due to an unknown charset in the HTTP Content-Type header.

The Artix runtime no longer crashes if the versions of SOAP in

a port's binding and transport do not match.

606053

- The Artix router no longer crashes if its TCP port is occupied, but shuts down cleanly.

606055

- 607252
- An unexpected C++ exception leading to process termination no longer occurs when the CORBA binding encounters an unexpected IDL enum value in a received message. Instead, a message is logged, detailing the name of the IDL enum and the received invalid value, both of which should be helpful for debugging.

1091479 (2667765)

- Router logging has been reorganized to adhere to the following points:

- a three-level router/route/operation model;

- log the right amount of events for each logging level;

- provide insight into utilization of the proxy and reference caches to be used for tuning of

- `plugins:routing:proxy_cache_size` and

- `plugins:routing:reference_cache_size` variables.

1093872 (2694558)

- Additional router log messages have been added to help track the dispatching of the request and response for each route.

1093910 (2694558)

- The SSL demo certificates provided for Artix C++ have been updated. The current demo certificates had already expired, and this was causing some issues for customers.

1094447 (2700222)

- The Artix HTTP server no longer dumps core because of a segmentation violation in the buffer management code. Fix OpenSSL 1.0.1c heartbleed bug by disabling vulnerable heartbeats code.

RPI 1094083 (2696838) (formerly RPI 603157)

- Artix Router crashing during load testing.

RPI 1093567 (2683428)

- Router logging reorganized to adhere to the following points:
 - ♦ a three-level router/route/operation model
 - ♦ log the right amount of events for each logging level
 - ♦ provide insight into utilization of the proxy and reference caches to be used for tuning of `plugins:routing:proxy_cache_size` and `plugins:routing:reference_cache_size` variables

RPI 1093872 and RPI 1093910 (2694558)

- SAML/HTTPS interface issue with Artix Security Service.

RPI 1093385 (2690679)

- Using openssl `s_client` crashes the Orbix services.

RPI 599887

- Added the configuration variable `plugins:orb:max_unbounded_string_size`. This enables the customer to set the maximum size of an unbounded string in megabytes.

RPI 1090914 (228900)

- If a C++ IDL sequence constructor ran out of memory, it crashed with a segmentation violation. Now, a `CORBA::NO_MEMORY` C++ exception is thrown.

RPI 1091714 (2670248)

- GIOP Current race condition.

ORB-2215

- Memory leak in portable interceptor.

ORB-2191

- An unexpected C++ exception leading to process termination no longer occurs when the CORBA binding encounters an unexpected IDL enum value in a received message. Instead, a message is logged, detailing the name of the IDL enum and the received invalid value, both of which should be helpful for debugging.

RPI 1091479 (2667765)

RPI 1095558 (2697314)

Other Resources

The following additional resources are available:

- For the latest information on supported platforms and compilers, see the [Artix Supported Platforms page](#).
- The most up-to-date versions of Artix technical documentation are available at:

<https://supportline.microfocus.com/productdoc.aspx>

- The Artix Community enables developers, support specialists, and customers to exchange information. This is available at: <http://community.microfocus.com/microfocus/corba/artix/>
- Contact Micro Focus technical support at: <http://www.microfocus.com>

