

Artix Version 5.6.4

Release Notes: C++

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2017-03-03

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Artix 5.6.4 for C++ Release Notes

These release notes contain information about the Artix 5.6.4 for C++ 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.

New and Changed Features

The following features are new in Artix 5.6.4 for C++:

- [Supported Cipher Suites](#)

Supported Cipher Suites

Artix 5.6.4 added support for the following cipher suites:

Null encryption integrity ciphers:

- RSA_WITH_NULL_SHA256

Standard ciphers:

- RSA_WITH_3DES_EDE_CBC_SHA
- RSA_WITH_AES_128_CBC_SHA
- RSA_WITH_AES_256_CBC_SHA
- RSA_WITH_AES_128_CBC_SHA256
- RSA_WITH_AES_256_CBC_SHA256
- TLS_RSA_WITH_NULL_SHA256
- TLS_RSA_WITH_AES_128_CBC_SHA256
- TLS_RSA_WITH_AES_256_CBC_SHA256
- TLS_DHE_DSS_WITH_AES_128_CBC_SHA256
- TLS_DHE_RSA_WITH_AES_128_CBC_SHA256
- TLS_DHE_DSS_WITH_AES_256_CBC_SHA256
- TLS_DHE_RSA_WITH_AES_256_CBC_SHA256

See the *Artix Security Guide: C++* for more information on supported cipher suites.

Supported Standards

Artix 5.6.4 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 5.6.4 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)

Note:

For Solaris systems, see ["Oracle JDK 8 on Solaris"](#) in ["Known Issues"](#).

Platforms and Compilers

Support has been added for the following new platforms:

- Windows Server 2016 with Visual Studio 2015
- Windows 10 with Visual Studio 2015
- Windows 8 with Visual Studio 2015
- Windows 7 with Visual Studio 2015
- Windows Server 2012 R2 with Visual Studio 2015
- Windows Server 2008 R2 with Visual Studio 2015
- SUSE Linux Enterprise Server 12
- AIX 7.2
- Solaris 12 x86_64 Beta

For the latest information on supported platforms and compilers, see <http://supportline.microfocus.com/prodavail.aspx>

Note:

Note that:

- HP PA-RISC is deprecated at Artix 5.6.4. It is currently supported only for backwards compatibility and may not be supported in future releases.
- Visual Studio 2008 is no longer supported.

Deprecated Features

The following features are deprecated in Artix 5.6.4 for C++ and will be removed in a future release:

- HP PA-RISC is deprecated at Artix 5.6.4. It is currently supported only for backwards compatibility and may not be supported in future releases.

Dropped Features

- Support for Visual Studio 2008 has been dropped.

Documentation Updates

The Artix 5.6.4 user documentation is available from <https://supportline.microfocus.com/productdoc.aspx>

Known Issues

Artix 5.6.4 includes the following known issues:

Microsoft Visual Studio 2015 compiler

Artix 5.6.4 supports Microsoft Visual Studio 2015 version 14.0.25431.01 Update 3 or later versions. Support is not provided for earlier versions than Microsoft Visual Studio 2015 version 14.0.25431.01 Update 3, because of compiler issues discovered during testing.

Micro Focus advises customers to install Visual Studio 2015 using the Visual Studio 2015 Web installer (not the ISO installer) so as to avail themselves of the latest fixes available from Microsoft.

Oracle JDK 8 on Solaris

Oracle only provides 64-bit Java 8 on Solaris. No 32-bit Java 8 is provided by Oracle on Solaris.

This will have an impact on existing Artix C++ applications if the following conditions are met:

- The Artix C++ application is 32-bit
- The Artix C++ application uses the JMS or FTP transport
- Java 8 is used

If all of the above are true, then existing Artix C++ applications will not work with Java 8. This is because the Java 8 runtime only supports 64-bit. The 32-bit Artix C++ application cannot therefore dynamically open the Java runtime libraries it depends on. The FTP and JMS transports depend on Java Native Interface (JNI) functionality and consequently require a Java runtime environment that matches the bit size of the Artix C++ application.

Artix 5.6.4 on Solaris provides both 32-bit and 64-bit libraries that allow 32-bit applications to be rebuilt as 64-bit.

Micro Focus recommends that you either rebuild your application in 64-bit mode so that it can run with a 64-bit only Oracle Java 8 runtime, or else continue to run any 32-bit Artix C++ applications that use the FTP or JMS transports with Java 7 on Solaris.

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.

- Fixed a potential GIOP Snoop output file naming collision when using a rolling file strategy of "size".

The **Artix Configuration Reference, C++ Runtime** has been updated to include the configuration variables for the Snoop output file.

621119

- Artix 5.6 has been upgraded at SP3 to use the OpenSSL security toolkit version 1.0.2j.
RPI 623259
- There was an issue where the Artix Security Service failed to start in Artix 5.6.3 C++ installations on AIX systems. The AIX LIBPATH was incorrectly set when the artix_env script was sourced with a JAVA_HOME set to a valid IBM AIX JDK. This has been fixed.
RPI 625347
- Artix 5.6.4 now recognizes the cipher suites listed in ["Supported Cipher Suites"](#)
RPI 1103582 (2853906)
- The HTTP Header Content-Type is now set correctly for all HTTP responses, when the security plug-in is loaded.
RPI 1105946 (2789779)
- The `policies:<transport>:server_address_mode_policy:publish_hostname` configuration variables now allow for specification of fully qualified DNS domain names for publishing in IORs, in addition to IP addresses and unqualified host names. The **Artix Configuration Reference, C++ Runtime** has been correspondingly updated.
1101038 (2833072)
- Artix 5.6.4 provides support for Java 8.
RPI 1106421 (2873330)

Other Resources

The following additional resources are available:

- For the latest information on supported platforms and compilers, see <http://supportline.microfocus.com/prodavail.aspx>.
- 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>