

RTI Connex Third-Party Software

Version 7.2.0



Your systems.
Working as one.

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Updated versions of this document and other RTI documentation may be found at community.rti.com/documentation.

1

Third-Party Software included in Connex DDS Core and/or Connex DDS Micro Libraries

1.1 Apache Log4j 2

- This software is used for Distributed Logger and Micro Application Generator.
- Source: <https://logging.apache.org/log4j/2.x/license.html>
- Version: 2.17.1
- License: The Apache Software License, Version 2.0
See Appendix

1.2 crc32c.c

- Related to: Connex Micro 3.1 and 2.4.14 and Connex Micro Cert 2.4.12.1
- Version 1.1
- License:

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1.3 Expat

- Related to: XML configuration
- Software is included in the core middleware libraries.
- Release 2.4.8
- <https://github.com/libexpat/libexpat>
- License

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1.4 fnmatch

- Related to: Content-filtered topics, query conditions, partitions, multicast address management, topic filter in XML QoS profile.
- Software is included in the core middleware libraries.
- License

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1.5 inet_pton4, inet_pton6

- Related to: network addressing
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1.6 List.cs file from .NET Core 3.1

- Related to:
This is a source file taken from the .NET open source repository and adapted to be compiled into RTI core middleware libraries.
- <https://github.com/dotnet/runtime/blob/8593a477fb8f41029f9d7963658922b8d504c76e/src/libraries/System.Private.CoreLib/src/System/Collections/Generic/List.cs>
- License

The MIT License. See Appendix

1.7 LZ4

- Related to: Compression feature added in Connexx 6.1.0 . LZ4 is a library for compression and will be part of our Connexx DDS Professional, so any other product that contains our libraries would also contain the LZ4 libraries.
- Software is included in the core middleware libraries.
- Release 1.9.3
- <https://github.com/lz4/lz4>
- License:

LZ4 Library

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1.8 ZLIB

- Related to: Compression feature added in Connex 6.1.0, and TypeObject compression
- Software is included in the core middleware libraries.
- Release 1.2.12
- <http://zlib.net/>
- License: http://zlib.net/zlib_license.html

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1.9 BZIP2

- Related to: Compression feature added in Connex 6.1.0, and TypeObject compression
- Software is included in the core middleware libraries.
- Release 1.0.8
- https://sourceware.org/git/?p=bzip2.git;a=blob_plain;f=LICENSE;h=81a37eab7a5be1a34456f38adb74928cc9073e9b;hb=6a8690fc8d26c815e798c588f796eabe9d684cf0
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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.10 MiGBase64

- Related to: RTI Connext Java support for mechanism for loading certificates from a keystore, and not just a file for the TLS transport
- Software is included in core middleware libraries version 5.2 and higher.
- License:

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@version 2.2

@author Mikael Grev

Date: 2004-aug-02

Time: 11:31:11

1.11 MD5

- Related to: DDS keys implementation, content-filtered topics (to sign the filter), persistence service (to generate writer-side unique identification)
- Software is included in core DDS middleware libraries, in the Connex DDS Micro libraries and in the Connex DDS Cert libraries.
- License

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L. Peter Deutsch
ghost@aladdin.com

1.12 utf8proc

- Related to: Content-filtered topics, query conditions, and multichannel.
- <https://github.com/JuliaStrings/utf8proc>
- Software is included in core DDS middleware libraries
- License: MIT license. See Appendix.

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<https://github.com/JuliaStrings/utf8proc/blob/master/LICENSE.md>

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1.13 json-parser

- Related to: DynamicData and Real-Time WAN Transport Configuration in Core Libraries. Connector also uses the API exposed by the Core Libraries.
- Version 1.1.0
- <https://github.com/json-parser/json-parser/blob/master/LICENSE>
- Software is included in core DDS middleware libraries
- License:

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1.14 pybind11

- Related to: RTI Connext DDS Python API
- Version 2.10.1
- <https://pybind11.readthedocs.io/en/stable/#license>

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external contributions to this project including patches, pull requests, etc.

2

RTI Plugins

RTI offers a number of plug-in technologies that augment the functionality of the RTI Connext DDS Core Libraries. Plugins are typically provided in binary format and linked directly into the customer application along with the RTI Connext DDS Core Libraries. These plugins are typically distributed as part of the customer's application. See the Third-party Software – Core & Micro documentation for information regarding third-party software content included as part of the Core package.

2.1 bzip2

- Version 1.0.8
- Used, unmodified, in Compression Real-Time Publish Subscribe Transport Plug-in (part of RTI Limited Bandwidth Plug-ins).
- https://sourceware.org/git/?p=bzip2.git;a=blob_plain;f=LICENSE;h=81a37eab7a5be1a34456f38adb74928cc9073e9b;hb=6a8690fc8d26c815e798c588f796eabe9d684cf0
- License:

```
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Julian Seward, jseward@acm.org
 bzip2/libbzip2 version 1.0.8 of 13 July 2019

2.2 ZLIB

- Version 1.2.12
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- https://zlib.net/zlib_license.html
- License:

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3

RTI Services & Utilities

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3.1 Bootstrap

- Version 5.1.3
- Used with RTI Web Integration Service
- <https://github.com/twbs/bootstrap/blob/main/LICENSE>
- License

The MIT License (MIT)

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3.2 CivetWeb

- Version 1.16
- Used with RTI Web Integration Service and RTI Observability Collector Service.
- <https://github.com/civetweb/civetweb/blob/v1.16/LICENSE.md#civetweb-license>
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- Version 8.1.2
- Used in RTI Observability Collector Service by OpenTelemetry C++.
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- Version 3.6.0
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3.5 json-parser

- Version 1.1.0
- Used with RTI Web Integration Service, RTI Database Integration Service, and RTI Recording Service.
- <https://github.com/json-parser/json-parser/blob/master/LICENSE>
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3.6 Libxml2

- Libxml2 v2.11.4
- Used with RTI Cloud Discovery Service, RTI Observability Collector Service, RTI Queuing Service, RTI Recording Service, and RTI Routing Service for parsing XML files.
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- Libxslt v1.1.38
- Used with RTI Cloud Discovery Service, RTI Observability Collector Service, RTI Queuing Service, RTI Recording Service, and RTI Routing Service for transforming XML files.
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3.8 nlohmann-json

- Version 3.11.2
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3.9 OpenSSL

- Version 3.0.9
- Web Integration Service uses OpenSSL APIs to generate API keys and to secure the connection between client applications and the embedded web server when HTTPS is enabled.
- <https://www.openssl.org/source/apache-license-2.0.txt>
- License: Apache License Version 2.0 (full text found in the **Appendix**).

3.10 OpenTelemetry C++

- Version 1.9.1
- Used in RTI Observability Collector to export in OTLP.
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3.11 prometheus-cpp

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3.12 Protocol Buffers

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- Version 1.13
- Used with RTI Web Integration Service
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3.14 SQLite

- Version 3.39.4
- RTI compiles the source code of SQLite into a library that infrastructure services like RTI Recording Service, RTI Persistence Service, RTI Queuing Service, and RTI Web Integration Service link against.
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3.15 SQLite ODBC

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4.4 nodejs

- Version 16.15.1
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4.5 adm-zip

- Version 0.5.9
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4.6 body-parser

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- Version 2.17.1
- License: Apache License Version 2.0 (full text found in the **Appendix**).

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- Version 1.1.1
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- <https://github.com/hunterhacker/jdom/blob/master/LICENSE.txt>
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```
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```

```
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*/

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- Version 2023-03 for RTI Admin Console
- Version 2020-06 for RTI Launcher
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4.27 SWT

- RTI Launcher is built using SWT.
- Version 4.19 (Windows and MacOS) and 4.15 (Linux).
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4.28 FlatLaf

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- Version 0.35
- <https://github.com/JFormDesigner/FlatLaf>
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- Version 17.0.7
- gluonhq.com
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- Version 1.6
- Portions of RTI Monitor are built using SwingX. SwingX is a SwingLabs Swing Component Extension.
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4.33 Webix-pro

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4.35 wxWidgets

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4.41 Apache Commons Logging

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4.43 Apache HttpComponents Core

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4.44 AWS SDK for Java

- Version 1.12.341
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4.45 Jackson Core, Annotations, Databind, and Dataformat

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5

Third-Party Software used by the RTIDDSGEN Code-Generation Utility

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- Version: 2.17.1

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- Version: 2.3
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5.5 AdoptOpenJDK JRE

- Version 17.0.6 (LTS) Hotspot JVM
- The JRE binaries of the software are distributed with RTI Connex software that uses rtiddsgen (RTI Code Generator). The source code is not modified or shipped.
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5.12 Joda-Time

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8

Third-Party Software Generators Whose Output Is Included in Connex DDS Core Libraries and Services

8.1 Bison

- Bison is a GNU parser generator. RTI uses the code generated by Bison. The software is not included in the RTI libraries or distribution.
- Related to: Content-filtered topics feature in C.
- Version 3.7.6
- License:

```
/* A Bison parser, made by GNU Bison 3.7.6. */
```

```
/* Bison interface for Yacc-like parsers in C
```

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*/
```

```
/* As a special exception, you may create a larger work that
contains
part or all of the Bison parser skeleton and distribute that work
under terms of your choice, so long as that work isn't itself a
parser generator using the skeleton or a modified version thereof
as a parser skeleton. Alternatively, if you modify or redistribute
the parser skeleton itself, you may (at your option) remove this
special exception, which will cause the skeleton and the resulting
Bison output files to be licensed under the GNU General Public
License without this special exception.

This special exception was added by the Free Software Foundation in
version 2.2 of Bison. */
```

8.2 Flex

- Related to: Content-filtered topics feature in C.
- Used to generate code that is included in the core middleware libraries. Flex itself is not included in the RTI distribution.
- Version: 2.6.4
- License

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9

Third-Party Software Generators Whose Output is not Included in Connex DDS Core Libraries, but Is Shipped with Connex Software Bundle

9.1 Doxygen

- Related to: RTI uses Doxygen to generate documentation for RTI Connex DDS. The software is not included in the RTI libraries or distribution.
- Version: 1.8.13 (with custom fixes from RTI)
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9.2 Sphinx

- Related to: RTI uses Sphinx to generate documentation for RTI Connext DDS. The software is not included in the RTI libraries or distribution.
- Version: 3.3.1

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9.3 MadCap Flare

- Related to: RTI uses Flare to generate documentation for RTI Connexx DDS. The software is not included in the RTI libraries or distribution.
- Version: 14
- <https://www.madcapsoftware.com/>

9.4 Texlive

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10

Installer

The installers consist of binary executables shipped by RTI that are used to install and to update the RTI Software package on the user's computer.

10.1 Bitrock InstallBuilder

The installers for RTI modules were built using Bitrock Installbuilder 19.7.0. This software is licensed under commercial terms to RTI, and the executable may contain third-party open source software. Contact RTI for a listing specific to this product if review is required.

11

Third-Party Software Used by RTI Usage Metrics

The following dependencies are used by RTI Usage Metrics, which is called after most of the products' scripts have finished their execution.

11.1 Apache Commons CLI

- Version 1.5.0
- Portions of the RTI Core Utilities (DDS Ping, DDS Spy, and Prototyper), the installers, the RTI Services and Utilities, RTI Monitor, RTI System Designer, and RTI Shapes Demo use Apache Commons CLI.
- License: [The Apache Software License, Version 2.0](#) (full text found in the *Appendix*)

11.2 Apache Log4j API and Core

- Version 2.17.1
- Portions of the RTI Core Utilities (DDS Ping, DDS Spy, and Prototyper), the installers, the RTI Services and Utilities, RTI Monitor, RTI System Designer, and RTI Shapes Demo use Apache Log4j API and Log4j Core.
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11.3 Gson

- Version 2.9.1
- Portions of the RTI Core Utilities (DDS Ping, DDS Spy, and Prototyper), the installers, the RTI Services and Utilities, RTI Monitor, RTI System Designer, and RTI Shapes Demo use Gson.
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11.5 Apache HttpComponents Client

- Version 4.5.13
- Portions of the RTI Core Utilities (DDS Ping, DDS Spy, and Prototyper), the installers, the RTI Services and Utilities, RTI Monitor, RTI System Designer, and RTI Shapes Demo use Apache HttpComponents Client.
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11.6 Apache HttpComponents Core

- Version 4.4.13
- Portions of the RTI Core Utilities (DDS Ping, DDS Spy, and Prototyper), the installers, the RTI Services and Utilities, RTI Monitor, RTI System Designer, and RTI Shapes Demo use Apache HttpComponents Core.
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11.7 AWS SDK for Java

- Version 1.12.341
- Portions of the RTI Core Utilities (DDS Ping, DDS Spy, and Prototyper), the installers, the RTI Services and Utilities, RTI Monitor, RTI System Designer, and RTI Shapes Demo use ws-java-sdk-dynamodb, aws-java-sdk-core, and aws-java-sdk-s3.
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11.8 Jackson Core, Annotations, Databind, and Dataformat

- Version 2.12.7
- Portions of the RTI Core Utilities (DDS Ping, DDS Spy, and Prototyper), the installers, the RTI Services and Utilities, RTI Monitor, RTI System Designer, and RTI Shapes Demo use Jackson Core, Annotations, Databind, and Dataformat.
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11.9 Joda-Time

- Version 2.8.1
- Portions of the RTI Core Utilities (DDS Ping, DDS Spy, and Prototyper), the installers, the RTI Services and Utilities, RTI Monitor, RTI System Designer, and RTI Shapes Demo use Joda-Time.
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12

Appendix – Open Source Software Licenses

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