

RTI Connex Third-Party Software

Version 7.3.0



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.

You can also find the full Software Bill of Materials (SBOM) third-party information in [SPDX](#) and [CycloneDX](#) formats in the `<installation_dir>/sbom` folder. The SBOM includes all dependencies, not just first-level ones.

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://www.apache.org/licenses/LICENSE-2.0>
- 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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Mark Adler

madler@alumni.caltech.edu

1.3 Expat

- Related to: XML configuration
- Software is included in the core middleware libraries and in the Integration Toolkit for AUTOSAR.
- Core middleware libraries include the release 2.4.8 and the Integration Toolkit for AUTOSAR includes the release 2.6.1.
- <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
- Software is included in the core middleware libraries.
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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 Connex 6.1.0 . LZ4 is a library for compression and will be part of our Connex 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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Mark Adler
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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
- License

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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), Integration Toolkit for AUTOSAR (DDS-IDL Service Interface code generation)
- Software is included in core DDS middleware libraries, in the Connex DDS Micro libraries, in the Connex DDS Cert libraries and in the Integration Toolkit for AUTOSAR.
- 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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1.15 y2038

- Related to: UNIX Timestamps
- Version v20100403
- <https://raw.githubusercontent.com/evalEmpire/y2038/v20100403/LICENSE>

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2

RTI Plugins

RTI offers a number of plug-in technologies that augment the functionality of the RTI Connex DDS Core Libraries. Plugins are typically provided in binary format and linked directly into the customer application along with the RTI Connex 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
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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

2.2 ZLIB

- Version 1.3
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- https://zlib.net/zlib_license.html
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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>
- License

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3.3 jQuery

- Version 3.6.0
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3.4 json-parser

- Version 1.1.0
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- <https://github.com/json-parser/json-parser/blob/master/LICENSE>
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3.5 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.
- <https://gitlab.gnome.org/GNOME/libxml2/-/blob/v2.11.4/Copyright>
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3.6 Libxslt

- 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.
- <https://gitlab.gnome.org/GNOME/libxslt/-/blob/v1.1.38/Copyright>
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3.7 nlohmann-json

- Version 3.11.2
- Used with RTI Observability Collector Service
- <https://github.com/nlohmann/json/blob/develop/LICENSE.MIT>

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3.8 OpenSSL

- Version 3.0.12
- Web Integration Service and Observability Collector Service use OpenSSL to secure the connection between client applications and the embedded web server when HTTPS is enabled.
- <https://raw.githubusercontent.com/openssl/openssl/openssl-3.0.12/LICENSE.txt>
- License: Apache License Version 2.0 (full text found in the **Appendix**).

3.9 OpenTelemetry C++

- Version 1.13.0
- Used in RTI Observability Collector Service to export in OTLP.
- <https://github.com/open-telemetry/opentelemetry-cpp/blob/v1.13.0/LICENSE>
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3.10 prometheus-cpp

- Version 1.0.1
- Used with RTI Observability Collector Service
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3.11 RapidXML

- Version 1.13
- Used with RTI Web Integration Service
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3.12 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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3.13 SQLite ODBC

- Version 0.9998
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4.1 Nebula Visualization Widgets

- Version 3.0.0
- Used for Admin Console to provide charting
- <https://www.eclipse.org/nebula/widgets/visualization/visualization.php>
- License: *Eclipse Public License v 2.0* (in **Appendix**)

4.2 Nebula Visualization XY Graph

- Version 2.1.0
- Used in Admin Console
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4.3 JEP

- Version 4.1.0
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4.4 Bootstrap

- Version 4.0.0
- Used in Admin Console.
- License: MIT (full text found in the **Appendix**).

4.5 Node.js

- Version 20.10.0
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4.6 adm-zip

- Version 0.5.9
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4.7 body-parser

- Version 1.20.1
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4.11 express-fileupload

- Version 1.4.0
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4.16 sanitize-filename

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4.19 sprintf-js

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```
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↳comes
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```

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- Version 2.17.1
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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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- <https://github.com/JFormDesigner/FlatLaf>
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- Version 17.0.7
- gluonhq.com
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4.38 XStream

- Version 1.4.20
- Portions of RTI Admin Console are built using XStream. This software is not modified by RTI from the original.
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4.39 yWorks: yFiles for Java

- Version 3.5.0.0
- Portions of RTI Admin Console are built using Yfiles. This software is licensed under commercial terms to RTI. It does not contain any third-party open source software.

4.40 Jackson

- Version 2.15.0
- Portions of RTI Admin Console are built using Jackson core, Jackson databind-jdk8, and Jackson dataformat-xml.
- License: License for the three components of Jackson being used is Apache License Version 2.0 (full text found in the **Appendix**).

4.41 Picocli

- Version 4.7.3
- Portions of RTI Admin Console are built using Picocli.
- License: Apache License Version 2.0 (full text found in the **Appendix**).

4.42 Gson

- Version 2.9.1
- Portions of RTI Admin Console and RTI Launcher are built using Gson.
- License: [The Apache Software License, Version 2.0](#) (full text found in the *Appendix*)

5

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

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- Version: Release 3.5.2
- License: <https://www.antlr3.org/license.html>

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5.2 Apache Commons Lang

- Used on Code Generator. We only use the class StringUtils.
- Version 2.6
- License: Apache License Version 2.0 (full text found in the Appendix).

5.3 Apache Log4j 2

- This software is distributed with rtiddsgen (RTI Code Generator) as a jar file. The source code is not modified or shipped.
- Source: <https://www.apache.org/licenses/LICENSE-2.0>
- Version: 2.17.1

5.4 Apache Velocity

- This software is included in rtiddsgen (RTI Code Generator). The source code is not modified or shipped.
- Source: <http://velocity.apache.org/>
- Version: 2.3
- License: The Apache Software License, Version 2.0
<http://velocity.apache.org/engine/devel/license.html>

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.
- <https://adoptopenjdk.net/about.html>
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6

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- Version 5.2
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7

Third-Party Software Used by RTI Connex TSS

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- Version 1.9.8
- License
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8

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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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*/
```

```
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contains
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parser generator using the skeleton or a modified version thereof
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```

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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- Related to: Content-filtered topics feature in Java.
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9

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- Related to: RTI uses Sphinx to generate documentation for RTI Connext DDS. The software is not included in the RTI libraries or distribution.
- Version: 5.3.0

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9.3 MadCap Flare

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- Version: 2024
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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 23.10.1. 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.
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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
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12

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