



## Third-party Software in Connex DDS – Core Libraries & Utilities, Connex Micro, and build infrastructure

This document outlines Real-Time Innovations’ (RTI) usage of third-party open source software in the RTI Connex DDS Core Libraries and Utilities. This product was previously known by the following names: NDDS, RTI DDS, and RTI Data Distribution Service. This document also applies to the RTI Connex Messaging product.

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- Source: <https://logging.apache.org/log4j/2.x/license.html>
- Version: 2.17.1
- License: The Apache Software License, Version 2.0  
See Appendix

### **crc32c.c**

- Related to: ConnexT Micro 3.1 and 2.4.14 and ConnexT Micro Cert 2.4.12.1
- Version 1.1
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### **Expat**

- Related to: XML configuration
- Software is included in the core middleware libraries.
- Release 2.4.4



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- <https://github.com/libexpat/libexpat>
- License

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### ***fnmatch***

- Related to: Content-filtered topics, query conditions, partitions, multicast address management, topic filter in XML QoS profile.
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### ***inet\_pton4, inet\_pton6***

- Related to: network addressing
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### ***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

### ***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:  
<https://raw.githubusercontent.com/lz4/lz4/dev/lib/LICENSE>  
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### **ZLIB**

- Related to: Compression feature added in Connex 6.1.0, and TypeObject compression
- Software is included in the core middleware libraries.
- Release 1.2.11
- <http://zlib.net/>
- License: [http://zlib.net/zlib\\_license.html](http://zlib.net/zlib_license.html)

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### **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



## Third-party Software – Core & Micro

- <https://www.sourceware.org/bzip2/manual/manual.html>
- License

Version 1.0.8 of 13 July 2019  
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### **MiGBase64**

- Related to: RTI Connex Java support for mechanism for loading certificates from a keystore, and not just a file for the TLS/DTLS transports
- Software is included in core middleware libraries version 5.2 and higher.
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@version 2.2

@author Mikael Grev

Date: 2004-aug-02

Time: 11:31:11

### **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](mailto:ghost@aladdin.com)

### **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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### 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:

\* Copyright (C) 2012-2022 the json authors All rights reserved.

\* <https://github.com/udp/json-parser>

\*

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- Related to: Modern C++ API
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- 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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```
/* 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. */
```

### **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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### **JavaCC**

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### **Third-Party Software generators whose output is not included in Connex DDS Core libraries, but the output is shipped with the Connex software bundle**

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- Version: 3.3.1  
License: BSD



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<https://github.com/sphinx-doc/sphinx/blob/v3.3.1/LICENSE>

### **MadCap Flare**

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- Version: 14
- <https://www.madcapsoftware.com/>

### **Texlive**

- Related to: RTI uses the Texlive Tex system to generate RTI Connexx documentation. The software is not included in the RTI Libraries or distribution.
- Version: 2019
- License:

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- Version: Release 3.5.2

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

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- Version 2.6
- License: Apache License Version 2.0 (full text found in the Appendix).

#### **Apache Log4j 2**

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- Source: <https://logging.apache.org/log4j/2.x/license.html>
- Version: 2.17.1

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Version 2, June 1991

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