



## 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.

### Table of Contents

- Third-Party Software included in Connex DDS Core and/or Connex DDS Micro Libraries..... 2**
- Apache Log4j 2 ..... 2
- crc32c.c ..... 2
- Expat ..... 2
- fnmatch ..... 3
- inet\_pton4, inet\_pton6 ..... 4
- List.cs file from .NET Core 3.1 ..... 4
- LZ4 ..... 4
- ZLIB..... 5
- BZIP2..... 5
- MiGBase64 ..... 6
- MD5 ..... 7
- utf8proc ..... 7
- json-parser ..... 8
- Boost ..... 9
- Third-Party Software generators whose output is included in Connex DDS Core libraries..... 9**
- Bison ..... 9
- Flex ..... 10
- JavaCC ..... 10
- Third-Party Software generators whose output is not included in Connex DDS Core libraries, but the output is shipped with the Connex software bundle..... 11**
- Doxygen ..... 11
- Sphinx ..... 11
- MadCap Flare ..... 12
- Texlive ..... 12
- TeX Live licensing, copying, and redistribution ..... 12
- Third-Party Software used by the RTIDDSGEN code-generation utility ..... 13**
- ANTLR ..... 13
- Apache Commons Lang ..... 13
- Apache Log4j 2 ..... 13
- Apache Velocity ..... 13
- AdoptOpenJDK JRE..... 14



**Third-Party Software used by RTI Connector..... 46**  
 Lua ..... 46  
 json-parser ..... 47  
**Third-Party Software Used by RTI ConnexT TSS..... 47**  
 utHash ..... 47  
**Appendix – Open Source Software Licenses ..... 49**  
 Apache License version 2.0, January 2004 (<http://www.apache.org/licenses/>) ..... 49  
 Common Public License - v 1.0 ..... 51  
 GNU GENERAL PUBLIC LICENSE Version 2, June 1991 ..... 53

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- 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

### **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 2.4.8



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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
- Software is included in the core middleware libraries.
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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 Connext 6.1.0 . LZ4 is a library for compression and will be part of our Connext 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 1.2.12
- <http://zlib.net/>
- License: [http://zlib.net/zlib\\_license.html](http://zlib.net/zlib_license.html)

zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 27th, 2022

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### **BZIP2**

- Related to: Compression feature added in Connex 6.1.0, and TypeObject compression



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- Release 1.0.8
- <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.
- License:  
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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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### **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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- Version: 1.8.13 (with custom fixes from RTI)
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- Version: 3.3.1  
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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
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- Version: Release 3.5.2

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

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- Version 2.6
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#### **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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### OpenJDK

- **Workshop**
- OpenJDK FAQ
- Installing
- Contributing
- Sponsoring
- Developers' Guide
- Vulnerabilities
- Mailing lists
- IRC · Wiki
- Bylaws · Census
- Legal
- **JEP Process**
- **Source code**
- Mercurial
- GitHub
- **Groups**
- (overview)
- 2D Graphics
- Adoption
- AWT
- Build
- Compatibility & Specification Review
- Compiler
- Conformance
- Core Libraries
- Governing Board
- HotSpot
- IDE Tooling & Support
- Internationalization
- JMX
- Members
- Networking
- Porters
- Quality
- Security
- Serviceability
- Sound
- Swing



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- Vulnerability
- Web
- **Projects**
- (overview)
- Amber
- Annotations Pipeline 2.0
- Audio Engine
- Build Infrastructure
- Caciocavallo
- Closures
- Code Tools
- Coin
- Common VM Interface
- Compiler Grammar
- Detroit
- Developers' Guide
- Device I/O
- Duke
- Font Scaler
- Framebuffer Toolkit
- Graal
- Graphics Rasterizer
- HarfBuzz Integration
- IcedTea
- JDK 6
- JDK 7
- JDK 7 Updates
- JDK 8
- JDK 8 Updates
- JDK 9
- JDK (... 15, 16, 17)
- JDK Updates
- JavaDoc.Next
- Jigsaw
- Kona
- Kulla
- Lambda
- Lanai
- Locale Enhancement
- Loom
- Memory Model Update
- Metropolis
- Mission Control
- Modules
- Multi-Language VM
- Nashorn
- New I/O
- OpenJFX
- Panama
- Penrose
- Port: AArch32



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- Port: AArch64
- Port: BSD
- Port: Haiku
- Port: Mac OS X
- Port: MIPS
- Port: Mobile
- Port: PowerPC/AIX
- Port: s390x
- Portola
- SCTP
- Skara
- Shenandoah
- Sumatra
- ThreeTen
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