

## CoreDX DDS Source Code License

# TWINOAKS<sup>TM</sup> COMPUTING INC.

PRACTICAL MIDDLEWARE EXPERTISE

CoreDX<sup>TM</sup>

DDS

CoreDX DDS  
is an  
Open-Standard High  
Performance Publish  
Subscribe Middleware  
Component

## CoreDX DDS<sup>TM</sup> — Source Code Licenses

As engineers, we understand the importance of having the source code for a critical system infrastructure component like communications middleware. For some projects, it can be difficult to depend on a black box component. Other projects need the flexibility to perform their own ports or other enhancements to DDS. That's why Twin Oaks Computing is pleased to offer CoreDX DDS<sup>TM</sup> Source Code Licenses.

With a CoreDX DDS Source Code License your organization will have access to the source code for the leading small-footprint DDS communications middleware. Access to the source code provides: internal configuration control, stand-alone problem resolution, deep integration, product customization, unique ports, and vendor independence.

Further, with a current Source Code License Maintenance agreement your organization will receive quarterly source code baseline updates so that you can keep up to date with API and wire-protocol changes.

### Source Code License Options

Twin Oaks Computing offers several options to license the CoreDX DDS source code. You have requirements requiring access to source code (these might include risk mitigation, testing, or customization). We have a license model to meet those requirements.

#### Read-Only Source Code License:

The Read-only license is the most popular option with our customers. It includes all source code and build scripts necessary to compile the CoreDX DDS baseline, allowing development teams to run the CoreDX DDS code through debuggers, as well as manually inspecting the code.

#### Full Access Source Code License:

The Full-access license is the most flexible licensing option. This license allows customers to customize CoreDX DDS and use these customized libraries in their deployed applications.

#### CoreDX DDS Tools Source Code License:

The source code for each CoreDX DDS tool (including our CoreDX DDS Memory Analysis Tool) is available as an add-on to any CoreDX DDS source code license.

### Ordering Instructions

Get started by visiting our website and downloading the 30-day Full Featured CoreDX DDS Evaluation software. During the download process, you can indicate you are interested in the Source Code License Program.

Download an Evaluation: <http://www.twinoakscomputing.com/coredx/download>

Twin Oaks offers  
CoreDX DDS Source  
Code  
Licenses.

Twin Oaks Computing, Inc | 720-733-7906 | [www.twinoakscomputing.com](http://www.twinoakscomputing.com)

## CoreDX DDS Source Code Features

### Standard Development Tools / Languages

- Source code in portable C language
- Language bindings for C++, C#, and Java
- Baseline includes source for all development tools: CMAKE, FLEX, BISON, LEMON
- Build configuration files for all target platforms
- Simple configuration and build process
- Out-of-tree compilation for multiple architectures

### Source Code

- ~30,000 LOC of library code
- ~30,000 LOC of test applications
- Requires platform specific compiler and make tools

### Well Organized Source Directories

- src/
  - include public include files
  - ddl DDL compiler
  - dds Core 'C' DDS API
  - dds\_cpp C++ binding
  - dds\_cf Content Filters
  - dds\_csharp C# binding
  - dds\_java Java binding
  - rtps RTPS wire protocol
  - transport pluggable, multiple protocols
  - util utilities
  - scripts build/config scripts
  - test comprehensive test suite
  - examples example applications
  - cdxspy RTPS packet analyzer

## CoreDX DDS Source Code Benefits

### Small Line of Code Count:

With a fraction of the lines of code to read and compile of other DDS implementations, CoreDX DDS lowers the risk of using the source code. Whether you are interested in using the source code as a reference, or performing your own specialized porting or feature enhancement, the CoreDX DDS source code baseline makes your work easier.

### Safety Critical Certification:

The small line of code count helps certification costs. CoreDX DDS and CoreDX DDS-SE were written using a robust disciplined process that is fully documented.

### Native Source Code:

100% designed and developed by Twin Oaks Computing. It does not include (and is not built on top of) any 3rd party commercial or open source products.

### Readable, Usable Source Code:

The CoreDX DDS source code is clean, easy to read, easy to build, easy to port, and easy to modify. Each source code license comes with the scripts and configuration necessary to build CoreDX DDS for any operating system or CPU architecture.

## CoreDX DDS Specifications

### Operating Systems:

- Linux 2.6
- Windows
- Solaris
- Thread-X
- Unison
- Nexusware
- QNX
- Android
- iOS
- WinCE
- INTEG-RITY
- LynxOS
- VxWorks

### Hardware Platforms:

- X86, 32bit, 64bit
- UltraSPARC
- ARM7, ARM9
- MIPS 32bit, 64bit
- PowerPC
- FPGA's
- DSP

### Development Languages:

- C
- C++
- C#
- Java

### Transports:

- RTPS (UDP, IPv4, IPv6)
- TCP
- Multicast / Unicast
- Serial
- Zigbee
- ARINC-653

Customizations for additional platforms and transports are quick and easy, contact us for information.

## About Twin Oaks Computing

Twin Oaks Computing, Inc. provides state-of-the-art engineering in support of high-performance communications, including device drivers, communication protocols, inter-process communications, network services, and secure environments. Our unique company culture allows us to be agile and provide superior responsiveness to our customers, and our extensive domain experience is essential to our customers' ability to perform their missions. We are committed to being a premier source of quality high-performance communications technologies for use in DoD and commercial applications.

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