



TWINOAKSTM

COMPUTING INC.

PRACTICAL MIDDLEWARE EXPERTISE

CoreDX DDSTM: Communications Middleware

CoreDX DDS is an easy-to-use, cross-platform, cross-language, inter-process communication (IPC) library. It is the revolutionary communications middleware that reduces schedule time and risk on distributed software development projects. CoreDX DDS is:

- **High-Performance:** outperforming other common middleware technologies like OPC-UA, MQTT, AMQP, CORBA, and JMS
- **Secure:** with advanced, comprehensive end-to-end security, CoreDX DDS meets the security requirements of today's business-critical and mission-critical systems
- **Scalable:** from on-board communications to networks containing 1000's of devices, CoreDX DDS efficiently handles data communications
- **Flexible:** Systems are easy to re-configure, with the ability to add and remove components, features, and functions even after deployment

Based on open standards for guaranteed interoperability and long term viability, CoreDX DDS is the only secure communications middleware that is also fully specified, from the API down to the wire protocols.

The Power of CoreDX DDS

Super small and blazingly fast, CoreDX DDS is a full-featured implementation of the Data Distribution Service standards that connects all your devices: servers, mobile devices, and embedded components, all the way down to FPGAs, DSPs, PLCs, and microcontrollers.

Focus your domain expertise on your system requirements: CoreDX DDS handles all aspects and complex details of data communications including security, network disconnects, reliability, redundancy, filtering, data storage and organization.

Depend on a robust infrastructure: CoreDX DDS is deployed in 1 million computers and devices, and has been thoroughly tested for critical systems, including surgical devices, power grid infrastructures, and space vehicles.

Secure your systems at their most vulnerable points: CoreDX DDS contains sophisticated security aspects, handling authentication, access control, integrity, and confidentiality.

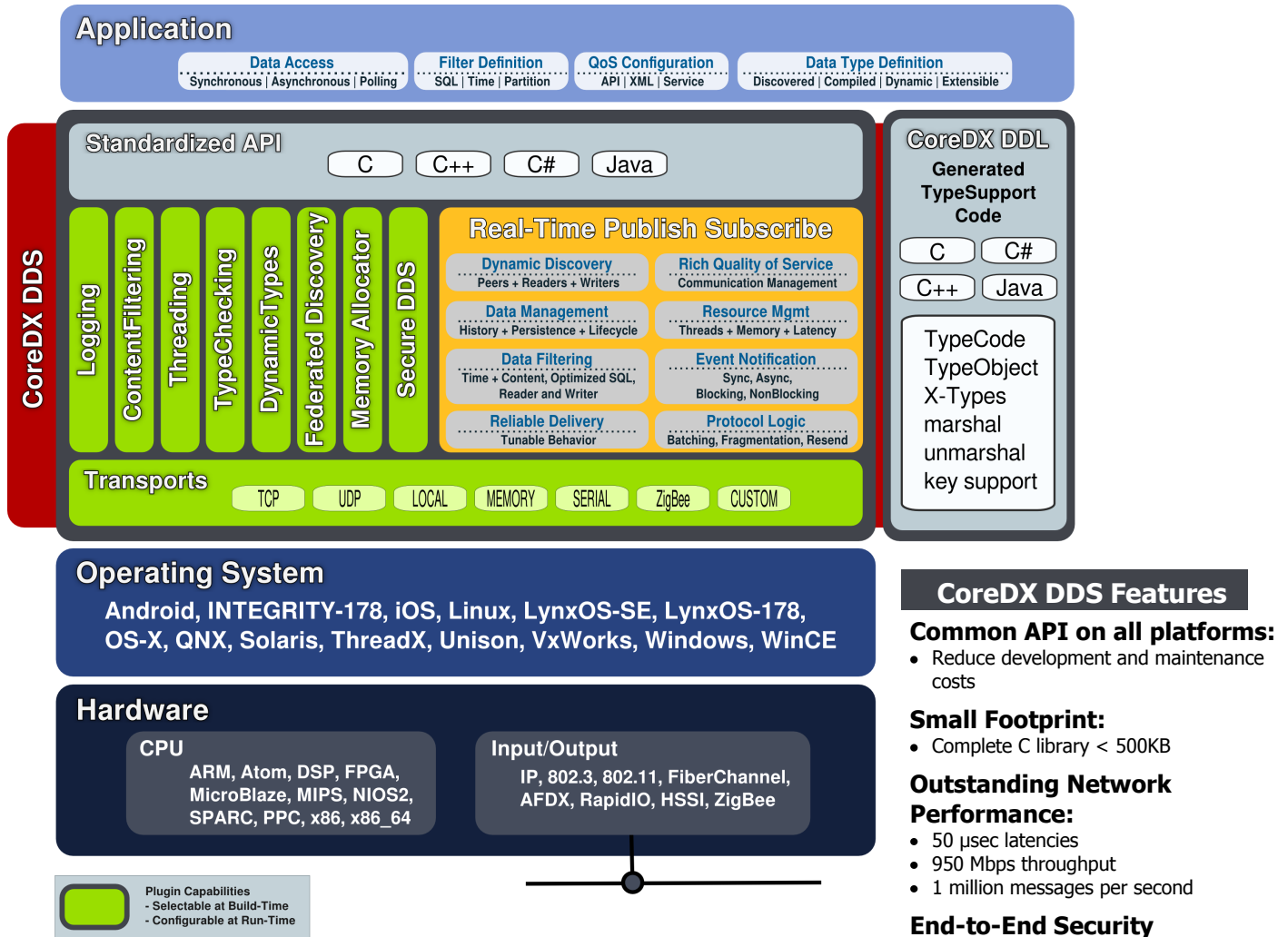
Build on a high pedigree foundation: CoreDX DDS is 100% developed and maintained by Twin Oaks Computing employees and US citizens.

Lean on world-class support: Our customers and partners agree that Twin Oaks Computing provides unparalleled technical and business support. Responses are fast, interactions are professional, and answers are thorough.

Twin Oaks offers
Free CoreDX DDS
IR&D Licenses
to qualified research
projects and
institutions.

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CoreDX DDS Flexible Architecture



CoreDX DDS Specifications

Operating Systems:

- Linux 2.6
- Windows
- Mac OSX
- Solaris
- Thread-X
- Unison
- Nexusware
- QNX
- Android
- iOS
- WinCE
- INTEGRITY
- LynxOS
- VxWorks
- DeOS

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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