

# Corporate Fact Sheet

## AT-A-GLANCE

CORPORATE NAME: Real-Time Innovations (RTI)

HEADQUARTERS: Sunnyvale, California

WEB: [www.rti.com](http://www.rti.com)

OWNERSHIP: Privately held

EMPLOYEES: 280+

FOUNDED: 1991

CEO: Stan Schneider, Ph.D.

## ABOUT RTI

Real-Time Innovations (RTI) is the largest software framework company for autonomous systems. RTI Connex<sup>®</sup> is the world's leading architecture for developing intelligent distributed systems. Uniquely, Connex shares data directly, connecting AI algorithms to real-time networks of devices to build autonomous systems.

RTI is the best in the world at ensuring our customers' success in deploying production systems. With over 1,800 designs, RTI software runs over 250 autonomous vehicle programs, controls the largest power plants in North America, coordinates combat management on U.S. Navy ships, drives a new generation of medical robotics, enables flying cars, and provides 24/7 intelligence for hospital and emergency medicine. RTI runs a smarter world.

RTI is the leading vendor of products compliant with the Object Management Group<sup>®</sup> (OMG<sup>®</sup>) Data Distribution Service<sup>™</sup> (DDS) standard. RTI is privately held and headquartered in Sunnyvale, California with regional offices in Colorado, Spain and Singapore.

Download a free 30-day trial of the latest, fully-functional Connex software today: [www.rti.com/downloads](http://www.rti.com/downloads)

## RTI CONNEXT PRODUCT SUITE

**CONNEXT® PROFESSIONAL** is the first software framework designed to meet the demanding connectivity requirements of autonomous systems. Based on the DDS standard, its data-centric approach eases system integration by allowing applications to interact directly with data objects and enables the creation of scalable systems that span diverse public and private networks.

**CONNEXT® SECURE** is the trusted software connectivity framework for architecting and securing systems of systems. It protects systems through flexible, fine-grained security for optimal performance and efficiency, from device to cloud. Its data-centric distributed architecture provides confidentiality, integrity and availability for optimal protection and performance.

**CONNEXT® ANYWHERE** is the first software framework designed to enable rapid development, deployment and upgrades of widely-distributed teleoperation applications. It provides a modular architectural foundation for systems that require high-fidelity, real-time communication over mobile, wide area and public networks.

**CONNEXT® MICRO** is the connectivity framework for resource-constrained real-world applications. It meets stringent size, weight, and power requirements with performance, scalability, reliability and security well beyond the reach of traditional connectivity frameworks — all within a DDS standard-compliant framework.

**CONNEXT® CERT** is the first safety-certifiable connectivity software for safety and mission-critical real-world systems. Connex Cert complies with the most stringent certification requirements and is available with out-of-box, reusable certification evidence to streamline certification.

**CONNEXT DRIVE®** is the first automotive-grade, safety-certified, and data-centric communications framework for next-generation vehicles. Connex Drive is designed to help automakers evolve EVs to fully embrace software-defined vehicle architecture and is TÜV SÜD-certified to ASIL D to meet the Safety Lifecycle requirements set forth by ISO 26262. Connex Drive includes all the necessary safety artifacts and safety manual, which can significantly reduce Functional Safety Lifecycle efforts for system integrators.

**CONNEXT® TSS** is an open standards-based, data-centric software solution for rapid component development and integration across disparate airborne platforms, both piloted and autonomous. Connex Transport Services Segment (TSS) is the first solution to be certified conformant to the Future Airborne Capability Environment™ (FACE) Technical Standard, Edition 3.1.

## ENGINEERING

RTI was founded in 1991 by robotics researchers from Stanford University. As a result, engineering and research are deeply rooted in the company's DNA.

RTI employs over 150 development, research, support, services and field engineers worldwide, with development sites in Silicon Valley, Spain and Denver. The engineering team is the world's best in distributed real-time systems, with most RTI engineers holding an MS or a PhD degree from top universities including Stanford, MIT, UC Berkeley, Rensselaer, Vanderbilt and more. Their extensive industrial experience ranges from defense to embedded systems to robotics.

In addition to product engineering, RTI maintains an active research program with concurrent government-funded projects. We collaborate with national labs, large and small companies, and academia. Our research team includes researchers and developers with expertise in cybersecurity, networking, data distribution, hardware/firmware, modeling & simulation, robotics, machine learning, rapid prototyping, and system development.

## INTERNATIONAL SALES, SERVICES AND SUPPORT

The RTI Professional Services team helps organizations around the world optimize their high-performance Connnext-based systems. With extensive experience designing distributed systems coupled with detailed DDS knowledge, our services engineers deliver results ranging from system architecture and design review to performance optimization to operational efficiency gains to locating problems in homegrown code. Whether on-site or remote, we provide training, deep-dive analysis, recommendations and best-practices, as well as hands-on code changes to ensure systems work as intended.

RTI's Customer Success team then helps ensure that our customers get the most value from our products and services. The CS team works closely with customers to help plan and execute product training as well as customized mentoring to bridge the learning curve. Consistently monitoring customer support requests, the CS team will work so that all critical issues are resolved in a timely manner.

Through hundreds of successful projects, we've accumulated deep knowledge about best practices, system optimization and the key tradeoffs to satisfy customer requirements. Working closely with RTI's growing customer base, we continually discover better, smarter, and more effective ways to help our customers succeed.

## MILESTONES

- 1991 • RTI is founded by robotics researchers from Stanford University.  
RTI releases the first product, ScopeTools, a debugging and visualization tool for distributed real-time systems.
- 1995 • RTI becomes a thriving consulting business with a focus on Wind River Systems VxWorks.  
ScopeTools achieves worldwide adoption through Wind River sales force.  
RTI enters middleware market with NDDS (a former name of RTI Connnext implementation).
- 1998 • RTI is named "16th Fastest-Growing Company in Silicon Valley" by *SV Business Journal*.
- 2000 • Schneider Electric adopts NDDS; companies co-develop standard Real-Time Publish-Subscribe (RTPS) wire protocol.
- 2003 • US Navy adopts DDS for its Open Architecture (OA) initiative, becoming the first of more than 300 programs and projects to standardize on DDS.  
RTI chairs Object Management Group (OMG) standards effort for DDS.
- 2004 • US Navy adopts DDS as key to Navy OA guidance.  
OMG recognizes DDS as a standard.
- 2005 • Wind River Systems acquires ScopeTools product line.  
RTI focuses on DDS middleware. The middleware business experiences 50% growth.  
Related services grow 135%.
- 2007 • Middleware business 5-year CAGR is 34%.  
OMG adopts RTI-contributed DDS wire specification as a standard.  
RTI is elected to a board seat at OMG.  
*INC Magazine* names RTI one of the fastest growing private companies in the US.
- 2009 • RTI experiences aggressive expansion internationally; signs 13 distributors worldwide.  
RTI grows revenue and customer acquisition to over 25%, despite global economic downturn.  
RTI wins a prestigious Frost & Sullivan® Technology Leadership Award.  
RTI launches Professional Edition with comprehensive tools, middleware, integration technologies.
- 2010 • RTI finishes ninth consecutive year of growth in middleware business.  
RTI expands total active projects 50% to more than 300 teams.  
The number of RTI Connnext deployments reaches 300,000.

- 2010 • RTI's commercial business grows rapidly, doubling the growth in aerospace and defense.  
Citigroup deploys RTI DDS on its trading floors.
- 2011 • RTI demonstrates OMG DDS interoperability with four vendors, including IBM.  
RTI gains 70% of the DDS market share.  
RTI is recognized as a "Top Workplace in Silicon Valley" by Bay Area News Group.
- 2012 • RTI establishes the Spain Development Center (SDC) in Granada, Spain.  
RTI pioneers royalty-free licensing for Connex DDS.  
RTI rebrands and expands; moves to larger HQ.  
RTI launches RTI Connex DDS product suite.  
RTI adds Siemens Energy as a new customer.
- 2013 • RTI publishes free Case + Code use case examples to accelerate DDS development efforts.  
Joy Global implements Connex DDS modular infrastructure for mining safety.  
NAV CANADA adopts Connex DDS in nationwide air traffic management technology platform.  
RTI DDS Toolkit for LabVIEW extends DDS capabilities to NI LabVIEW.  
Project design win rate increases by 100+%.  
RTI is named a "Cool Vendor" by leading analyst firm Gartner.
- 2014 • RTI releases Connex DDS 5.1 with 60+ new features and support for 20+ new platforms.  
RTI is named the "Most Influential Industrial IoT Company" in an independent market study published by *Forbes* magazine.  
CIO Review recognizes RTI as one of the "Top 50 Most Promising IoT Companies" in 2014.  
RTI joins 90+ industry-leading companies to form the Industrial Internet Consortium (IIC) with a goal to accelerate the development of connected industrial applications and to provide a common blueprint.  
RTI CEO, Stan Schneider, is elected to the IIC steering committee.  
RTI launches Connex DDS Secure, the world's first standards-compliant, off-the-shelf connectivity software that delivers the security, performance and safety required for deployment of the Industrial IoT.  
GE Healthcare selects RTI Connex DDS as the Industrial Internet transport for medical systems, standardizing on a common databus across product lines.  
European Space Agency (ESA) builds advanced telerobotics development platform on RTI Connex DDS, performs the first-ever robotics experiment with force-feedback in space.  
U.S. Army, General Dynamics Advanced Information Systems and RTI announce FACE™ framework to enable the government to build interoperable, more cost-effective avionics systems.  
RTI holds its first Connex DDS users group, Connex Conference 2014, in London.
- 2015 • RTI is named a "Vendor to Watch" by leading analyst firm, EMA.  
RTI provides communications software and engineering support for the Government of Canada's Land Command Support System (LCSS).  
IIC announces Smart Grid Testbed as a result of collaboration of RTI, National Instruments and Cisco working with CPS Energy, Southern California Edison, Duke Energy and SGIP to optimize power generation and integration of renewable energy sources to electrical grids.  
RTI CEO, Stan Schneider, is named a "Top Embedded Innovator" by *Embedded Computing Design Magazine*.  
RTI meets the most stringent safety requirement, delivers complete certification data package for DO-178C avionics safety standard.
- 2016 • RTI achieves record growth in revenue YoY.  
RTI is named "IoT Emerging Company of the Year for the Enterprise Market" by Compass Intelligence.  
RTI joins OpenFog Consortium as an early member to drive industry leadership in fog computing architecture.  
IIC announces new Connected Care Testbed as a result of collaboration between RTI, Infosys, PTC and Massachusetts General Hospital to develop an open IIoT data management and analytics platform for clinical and remote medical devices.  
RTI wins Department of Energy (DOE) funding to research smart grid security leveraging the DDS standard.

- 2016 — The IIC releases the Industrial Internet Security Framework (IISF) co-authored by RTI.  
RTI is named “Must Follow IoT Company” by Postscapes.
- 2017 — RTI achieves record growth in new hires (32%) and in new customer engagements (173%).  
RTI releases Connex DDS 5.3 the first connectivity software for scalable IIoT systems-of-systems databus architectures.  
RTI announces RTI Labs, a free program that provides early access to new technology.  
The IIC releases the Industrial Internet Connectivity Framework (IICF) co-authored by RTI.  
RTI CEO, Stan Schneider, is named a “Top 10 Industrial IoT Influencer” by IoT One.  
RTI is named a “Top 25 Industrial IoT Company” by IoT One.  
GE Transportation implements RTI Connex DDS as the connectivity framework in its connected rail enterprise, increasing efficiency by 30%.  
RTI Connex DDS is named a “SIIA Business Technology CODiE Award Finalist for Best IoT Platform.”  
RTI expands to two Connex Conference events in Munich and Silicon Valley.  
RTI is recognized as a “Top Workplace in Silicon Valley” by Bay Area News Group.  
RTI announces its Advisory Board and inaugural member, Scott McNealy.  
RTI joins AUTOSAR as a development partner.
- 2018 — RTI CEO, Stan Schneider, is elected as Vice Chair of the IIC Steering Committee.  
TechnipFMC selects RTI Connex DDS as the connectivity framework for its semi-autonomous underwater ROVs for Oil & Gas.  
RTI expands to three Connex Conference events in Munich, Boston and Silicon Valley.  
NextDroid selects RTI Connect DDS for its advanced autonomous systems.  
AUTOSAR releases the latest Adaptive Platform adopting the DDS standard.  
RTI wins SIIA CODiE Award for “Best IoT Solution 2018.”  
RTI grows its advisory board to four members including: Scott McNealy (Business), KT Neumann (Automotive), Raiford Smith (Energy) and Thomas Baptiste (MS&T).  
RTI named a 2018 Top Place to Work in the Bay Area for the second consecutive year.  
RTI’s connectivity technology is selected as part of a \$1.2 Billion AUD upgrade to Australia’s Jindalee Operational Radar Network (JORN).  
RTI announces the first connectivity software for highly Autonomous Vehicles at IoTSWC 2018 in Barcelona.  
AUTOSAR releases the latest version of the Adaptive Platform featuring a full network binding of the DDS Standard.  
Plasan selects RTI’s connectivity technology for first-of-its-kind smart armored vehicles, enabling a successful integration of NATO NGVA compliance.
- 2019 — RTI reduces cost and risk of avionics integration with the first FACE Certified Transport Services Segment (TSS) Product.  
RTI announces the first medical-grade connectivity framework at HIMSS 2019.  
RTI earns Frost & Sullivan’s prestigious 2019 Global Product Leadership Award and named the Global IoT Connectivity Leader for Healthcare.  
RTI is elected to leadership roles in the new DDS Foundation launched by the Object Management Group (OMG).  
RTI ships Connex 6 to customers, its largest product release to date.  
RTI announces partnership with Mocana.  
RTI awarded \$1.5M U.S. Government contract to standardize DoD cybersecurity technology.  
RTI named a 2019 Great Place to Work in both the US and Spain.  
RTI, Abaco and Wind River Partner to Deliver First COTS DO-254 and DO-178C Solution for Airborne Systems.  
RTI awarded \$2M in Government contracts to advance DoD capabilities in modeling and simulation systems.  
RTI Unveils Connex Drive: The First Complete Automotive-Grade Connectivity Solution for Autonomous Vehicle Development.



- 2019
- RTI Connex DDS Secure Receives Platinum Rating in 2019 Military & Aerospace Electronics Innovators Awards.
  - RTI announces that Xpeng Motors selects Connex DDS as the connectivity framework for the P7 intelligent electric sedan.
  - RTI announces that Aptiv selects Connex DDS as a secure tool for transferring data within its self-driving vehicles.
- 2020
- RTI announces new AV customers Baidu, Moovita and Voyage, to further empower the AV industry.
  - MT Robot adopts RTI Connex DDS to help its UNITR robots navigate autonomously around hospitals and warehouses to deliver supplies 24/7.
  - RTI and Green Hills Software announces their collaboration in the automotive industry.
  - RTI adds Stuart Kozlick as the newest member of its advisory board.
  - RTI named a 2020 Great Place to Work in the US and Spain for the second consecutive year.
  - RTI joins the Autonomous Vehicle Computing Consortium (AVCC) to help define an architecture for highly autonomous vehicles.
  - RTI announces that Kratos selects RTI's connectivity technology for complex modeling and simulation.
  - RTI joins the Autoware Foundation to expand global collaboration efforts to accelerate autonomous vehicle development.
  - RTI and SoC-e partner to provide DDS and TSN solutions for distributed systems.
  - RTI joins the Baidu Apollo Autonomous Driving Partner Ecosystem.
  - RTI introduces enhanced ROS 2 support to accelerate development of scalable robotics systems.
  - RTI introduces Xcelerators: professional services expertise for developing autonomous systems.
- 2021
- RTI and NXP partner to advance autonomous driving.
  - RTI introduces RTI Academy: a virtual on-demand learning platform for software developers and architects of autonomous systems.
  - RTI earns 2021 Great Place to Work Certification in the U.S. and Spain for the third consecutive year.
  - RTI announces the first software framework designed for widely distributed autonomous systems: Connex 6.1.
  - RTI announces that 634AI selects RTI Connex as the connectivity software for its MAESTRO autonomous mobile robots navigation and fleet management system.
  - RTI joins the Teleoperation Consortium to collaboratively advance autonomous vehicle adoption.
  - RTI named to Parity.org's 2021 best companies for women to advance list.
  - RTI announces that Israel Aerospace Industries (IAI) selects RTI Connex as the connectivity software for the OPAL application framework.
  - RTI receives Epic MegaGrant from Epic Games.
  - RTI joins the VR/AR Association to advance integrations with leading gaming engines.
  - RTI and Varon Vehicles collaborate for implementation of urban air mobility systems (UAMs).
  - RTI and Bachmann join forces to deliver a DDS-based industrial automation solution for autonomous shipping.
  - RTI awarded \$1M U.S. DoD research contract to explore 5G-NextG enhancements for real-time communications.
  - RTI announces that foundational components of Connex Drive are now certified to ISO 26262 ASIL D.
  - RTI and Wittenstein HIS announce partnership to provide safety-critical software for embedded systems.
- 2022
- RTI appoints David Fidalgo, CEO of Y-Mobility, to its advisory board.
  - RTI earns Frost & Sullivan's 2022 Enabling Technology Leadership Award for delivering next-generation connectivity software solutions.
  - RTI earns 2022 Great Place to Work Certification™ in the U.S. and Spain for the fourth consecutive year.
  - RTI appoints Alexander Kocher, former CEO of Elektrobit, to its advisory board.
  - RTI joins the Renesas R-Car Consortium, expanding its ASIL D safety-certified Connex Drive solution to automated driving and ADAS applications.
  - RTI named one of the Fortune 100 Best Places to Work in the Bay Area.
  - RTI announces Connex Drive 2.0, the production-grade connectivity framework for software-defined vehicles.

- 2022 — RTI named to Parity.org's 2022 best companies for women to advance list.
- RTI teams up with European railways and suppliers to specify a Safe Computing Platform (SCP) for future rail operations.
- RTI awarded \$1.25M contract to explore advancements in data-centric cybersecurity for the US Air Force and DoD.
- RTI and HoloMatic announce collaboration to accelerate autonomous driving in China.

## COMPLIANCE

DUNS: 797735883

CAGE: 03FH8

NAICS Codes

- 511210 Software Publishers
- 541511 Custom Computer Programming Services
- 541512 Computer Systems Design Services