

Press release

RTI Introduces New Connex Observability Framework to Maximize the Performance and Availability of Intelligent Systems

The Connex Observability Framework allows operators to identify, understand and prevent obstacles encountered during deployment

SUNNYVALE (USA)(London – April 12, 2023 – [Real-Time Innovations \(RTI\)](https://www.rti.com)), the largest software framework company for autonomous systems, today announced the latest addition to its [Connex® Product Suite](#) featuring the [Connex Observability Framework](#). The Observability Framework is the first solution of its kind for operational technology systems based on the DDS standard, extending the reliability, security, performance and resilience inherent in RTI Connex. Developers and operators of mission-critical distributed applications such as in-hospital patient monitoring and remote vehicle operation will benefit from increased visibility into the health of deployed systems.

As growth and innovation in autonomy continue to progress at a rapid pace, system operators are increasingly faced with deployment-time challenges. These applications require high reliability and real-time performance that the underlying network may not always provide.

Supporting the latest version of the Connex Product Suite, the Observability Framework offers greater visibility into systems' run-time behavior, allowing potential problems to be identified before they impact the user, and shortening the time required to diagnose and resolve issues when they do occur. This is particularly critical for systems deployed over networks that may be unreliable or have unpredictable bandwidth and latency, such as shared, wireless and public networks.

The Connex Observability Framework integrates with standard full stack observability components allowing developers to:

- Monitor Connex and non-Connex technologies with the same Observability tools (including Prometheus for metrics storage, Grafana Loki for logs aggregation, and Grafana dashboards for visualization)
- Monitor the performance and health of the distributed system from a holistic, centralized view
- Reduce system downtime by identifying and localizing problems
- Increase the quality and speed of design, development, testing and deployment through enhanced system verification and validation (V&V)
- Scale the observability telemetry pipeline as systems get more complex

“An increasing number of mission-critical applications are integrating autonomous capabilities. As these systems grow in scale and complexity, more data is exchanged leading to more dependence on unpredictable networks,” said David Barnett, Vice President of Product and Markets at RTI.

“We created the Connex Observability Framework so developers can have full confidence that their systems are working properly and that they can quickly diagnose and resolve issues when they are not. The new framework delivers the reliability, security and performance that RTI Connex users know and trust. From medical devices to autonomous vehicles, mobile defense systems and beyond, this is another example of RTI leading the charge to the software-defined future.”

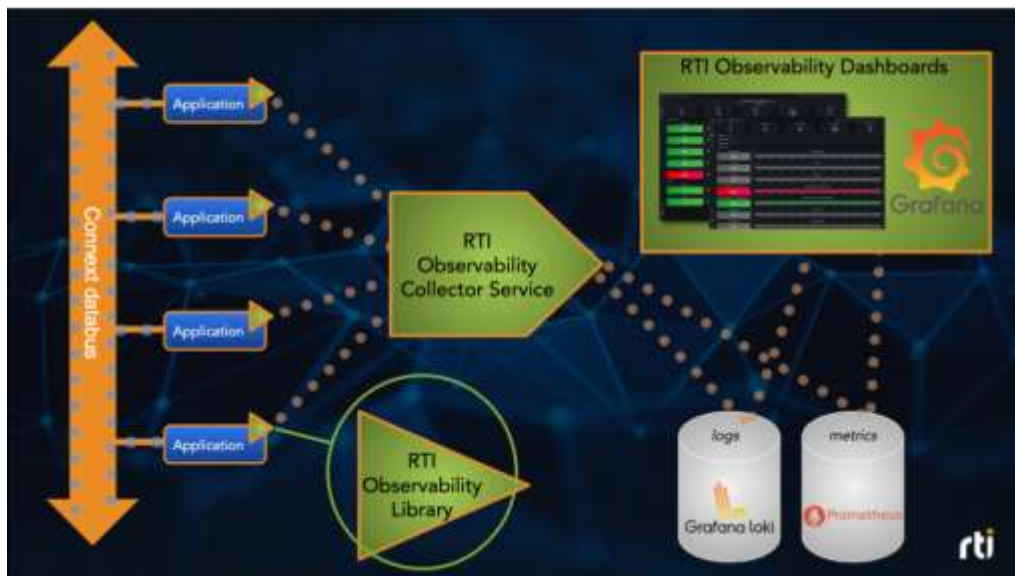
Systems that can benefit from the Observability Framework include patient monitoring in a hospital, in which networks may be shared with other applications and bandwidth can vary as patients move; the operation of autonomous vehicles at a mining site; and command, control and communication in mobile defense systems.

The Connex Observability Framework is available with Connex 7.1, the latest release of the Connex Product Suite. To learn more, please visit the [RTI website](#). To view a real-life demonstration of the observability framework, tune in to RTI's [on demand webinar](#).

Packaging and Availability

For more information on licensing and pricing of the Connex Observability Framework and Connex 7.1, please contact sales@rti.com.

Picture (source: RTI):



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About RTI (www.rti.com):

Real-Time Innovations (RTI) is the largest software framework company for autonomous systems. RTI Connex® 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® (OMG®) Data Distribution Service (DDS™) standard. RTI is privately held and headquartered in Sunnyvale, California with regional offices in Colorado, Spain and Singapore.

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