

RTI CUSTOMER SNAPSHOT

# Komatsu

MODULAR SOFTWARE INFRASTRUCTURE TO MONITOR,  
CONTROL AND COLLECT REAL-TIME EQUIPMENT ANALYTICS

*“Connex DDS offered a complete, solid solution set that supported all of the technology we are using. We needed a solution that ran across the entire platform and RTI was the only vendor we looked at that provided that.”*

Arun Kesavan  
Global Director, Controls and Automation,  
Komatsu

## HIGHLIGHTS

- Komatsu is an international leader in industrial-use products and services including construction and mining equipment.
- In 2011, Komatsu chose the Connex DDS modular infrastructure for its flexible architecture and real-time data analytics.
- With Connex DDS, Komatsu can manage and analyze equipment data in real-time, delivering intelligent capabilities and predictive maintenance.

## COMPANY OVERVIEW

Komatsu Mining Corp. (formerly Joy Global) is a worldwide leader in high productivity mining solutions. Established in 1921, Komatsu is a diversified provider of industry-use products and services, such as construction and mining equipment, industrial machinery and vehicles, and other solutions-based operations.

Komatsu has the world's largest and most extensive direct aftermarket service and support infrastructure in place of any underground mining equipment supplier. Its Life Cycle Management program helps customers better manage their equipment to maximize production. Komatsu's Smart Services program maximizes customer assets by providing better machine availability and utilization, minimal downtime and reduced costs.

Komatsu's vision is to be a world-class service company delivering the most reliable and productive products, systems and solutions that solve mining's toughest challenges.

## CHALLENGE

Komatsu was looking for a software architecture and modular infrastructure that would provide the company with the ability to easily add applications and software to their machines.

Prior to working with RTI, Komatsu wrote their own middleware. The company also had legacy hardware about to reach its end-of-life. As a result, Komatsu decided to revamp their infrastructure so they could focus on applications instead of infrastructure. They evaluated several vendors and considered building their own solution in-house.

## SOLUTION

In 2011, Komatsu's team chose the RTI Connex™ DDS modular infrastructure for its upgradeability, future maintainability and real-time data analytics. Komatsu needed a solution that could run across a huge platform and solve a

wide variety of challenges. Ultimately, Komatsu selected RTI because of the strong RTI solution set and services. Komatsu felt confident that RTI would act as a true partner and stand with them to achieve success.

The RTI Connexx DDS product suite was easy to integrate and supported multiple operating systems. The RTI solution set operates on both the embedded controller and on the Windows side of the machine, monitoring and collecting the information shared between the two. This functionality allows information to flow between those two interfaces, recording information on the Windows side for equipment analysis.

Komatsu takes that information and seamlessly forwards it to the top of the mine for additional data analysis and to deliver Smart Services capabilities with predictive analytics.

*“From day one, our services team was fully committed to making the implementation successful and we are thrilled with the result.”*

Stan Schneider  
CEO, RTI

## BENEFITS

Having branded mining machines continuously operating is the key to Komatsu’s success; second only to promoting a safety-first work environment. Komatsu uses Connexx DDS for both uptime and safety enhancements by continuously recording data and using that data to help prevent future safety issues.

## ABOUT RTI

Real-Time Innovations (RTI) is the Industrial Internet of Things (IIoT) connectivity company. The RTI Connexx® Databus is a software framework that shares information in real time, making applications work together as one, integrated system. It connects across field, fog and cloud. Its reliability, security, performance and scalability are proven in the most demanding industrial systems. Deployed systems include medical devices and imaging; wind, hydro and solar power; autonomous planes, trains and cars; traffic control; Oil and Gas; robotics, ships, and defense.

RTI lives at the intersection of functional artificial intelligence and pervasive networking<sup>SM</sup>.

RTI is the largest vendor of products based on the Object Management Group (OMG) Data Distribution Service™ (DDS) standard. RTI is privately held and headquartered in Sunnyvale, Calif.

Download a free 30-day trial of the latest, fully-functional Connexx DDS software today: <https://www.rti.com/downloads>.

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