

Rail systems integration

Custom dispatch, SCADA, security and passenger information solutions

As an industry leader in rail systems integration, we have been designing and building a wide range of systems solutions for 20 years—our dispatch and SCADA systems operate in more than 25 major passenger and freight rail infrastructures across North America.

Rockwell Collins' ARINC Advanced Information Management (AIM®) software platform is a fully-scalable, open architecture that seamlessly integrates legacy and new technology within your operational environment—maximizing efficiency, performance, and cost-effectiveness.

Today, we have a comprehensive, versatile library of NORAC and GCOR dispatch functions and interface options easily configured for light rail, commuter rail, subways, and freight systems. As an independent integrator, we deliver solutions tailored to your needs—utilizing our expertise in systems, software, hardware and network engineering.

Dispatch systems

- › Centralized Traffic Control (CTC)
- › NORAC and GCOR electronic forms
- › Train tracking and identification
- › Schedule based routing
- › Track and time/Office blocking
- › Electronic train sheet
- › Event and alarm processing
- › Traffic regulation
- › Electronic dispatcher transfer records
- › Train consist and crew information

ARINC | rail



- › Train line-up
- › Simulation/Playback
- › Information storage and retrieval
- › Custom report generation

Fully integrated train control/SCADA

- › SCADA physical plant monitoring and control
- › Electronic power supervisor log sheets
- › Electronic catenary plate order
- › Bridge control and monitoring

Security systems

- › Video surveillance
- › Access control
- › Intrusion detection

Passenger information systems

- › Ad hoc and scheduled announcements
- › LED and digital signage
- › Analog and digital audio

We maintain system integration facilities at our offices in Annapolis, Los Angeles, Pittsburgh, and Dallas. Our engineering staff at these facilities has the experience and expertise to integrate our office systems with a variety of legacy and emerging field system technology.

Data acquisition/External interfaces

- › Industry Standard Remote Terminal Units (RTUs)
- › Power Line Communications (PLCs)
- › Code line and RTU diagnostics tools
- › AIM based local control panels
- › High resolution video walls
- › ADA-compliant customer information system
- › Train scheduling systems
- › Crew scheduling systems

We offer an extensive array of services—including design and engineering, installation and test, and hardware and software maintenance. We partner with our prime contractors and our customers to deliver comprehensive rail control solutions to streamline complex modern rail environments.

To learn more log onto
rockwellcollins.com/arinc/rail

About Rockwell Collins

Rockwell Collins is a pioneer in the development and deployment of innovative communication and aviation electronic solutions for commercial and government applications. Our ARINC information management services offer seamless, secure and reliable solutions to customers in the aviation & airport, rail and critical infrastructure sectors. Rockwell Collins' Information Management Services (IMS) business, formed after Rockwell Collins acquired ARINC Incorporated in 2013, enables mission-critical data and voice communications and management throughout the world.

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