



Cisco Connected Rail

The future of rail: Converged network capabilities

The optimal connected rail scenario is a converged network that complements existing systems while enabling smooth migration to next-generation capabilities. This is possible with Cisco Connected Rail, whose architecture includes validated network designs for Connected Train, Trackside, and Station.

Connected Train

- Includes an onboard high-speed, wired, and wireless IP network. Operators can enhance security, wireless access, passenger services, and applications.

Connected Trackside

- Replaces multiple older, proprietary railway networks with a Cisco Unified MPLS Mobile Transport (UMMT) network. Operators can expect reduced operational services, cost, and complexity as well as enhanced security, train control and operations, and maintenance.

Connected Station

- Integrates multiple in-station networks and retail communication systems into a single, standards-based IP network. Operators can improve retail offerings and revenue streams, security, and wireless access.

Benefits

Cisco Connected Rail helps you:

- Lower operating expenses and simplify maintenance by consolidating multiple single-purpose applications onto one converged, open-standards IP network, and by taking advantage of predictive capabilities that can recommend improvements in advance
- Increase ridership through onboard Wi-Fi, on-demand entertainment services, and passenger information displays
- Enhance passenger and employee safety with improved video surveillance, automated compliance measures, and other automated systems that reduce human error and related mishaps
- Deploy new services with high-speed train-to-trackside wireless infrastructure
- Generate more revenue with greater advertising capabilities, increased ridership, and more station and trackside businesses

Learn more

For more information on Cisco Connected Rail solutions, including products, certifications, and financing, visit cisco.com/go/connectedrail, or visit [Cisco's portfolio for transportation](#) to explore the use cases and architectures that are making a difference in the rail industry.



The Cisco difference

In collaborating closely with rail customers and industry experts, we've made major improvements in our competitive offerings. Only Cisco Connected Rail solutions can help you achieve a wide range of safety, mobility, and efficiency objectives by:

- Providing an end-to-end architectural framework that delivers high-speed voice, video, and data services—from the train to the trackside to the station
- Building on top of existing architecture; there is no set starting point
- Testing and approving products in real-world scenarios under the highest standards (via [Cisco Validated Designs](#))