

Prepare mining operations for the future with Cisco and Rockwell Automation



Market pressures put productivity and profitability at risk

- Asset visibility and utilization
- Worker safety
- Cyber threats and attacks
- Geographic isolation
- Compliance and license to operate
- Environment impact

Mining companies are embracing modernization of their industrial operations as the way to address these challenges.

Pain points that Cisco and Rockwell Automation are solving for

- Reliable wireless reception including open pit and underground areas
- Infrastructure needed for geographic isolation and remote operating centers
- Tools to simplify the ease of transition to a modern solution
- Personnel need to be skilled in using new technology

A modern solution is required to provide end-to-end visibility, security, and control across OT and IT assets.

Together, Cisco and Rockwell Automation can help with a holistic blueprint for your digital transformation

- Deploy a converged network architecture that makes networks data-ready
- Collect and analyze network data to get ahead of the maintenance curve, keep systems secure, and accelerate responsiveness
- Increase profitability by lowering operating costs (maintenance, response time)

Why Cisco and Rockwell Automation?

Leading digital transformation for The Connected Enterprise with industrial ready, world-class control, power and information systems and IT networking and security technologies



Trusted domain experts with a strategic alliance

- 13+ years of experience together
- Jointly developed and validated IIoT and IT-OT solutions



Committed to driving industry success

- Workforce training and enablement
- Leader in technology and industry standards



Dedicated to developing ground-breaking solutions

- Versatile and future-ready solutions
- Faster time to value with remote connectivity



270%

expected growth in digital technology investments for mining operations¹



63%

of surveyed mining executives struggle to integrate data across multiple systems²

Prepare mining operations for the future with the Converged Plantwide Ethernet Solution (CPwE), network architectures from Cisco and Rockwell Automation that connects production systems to business systems.

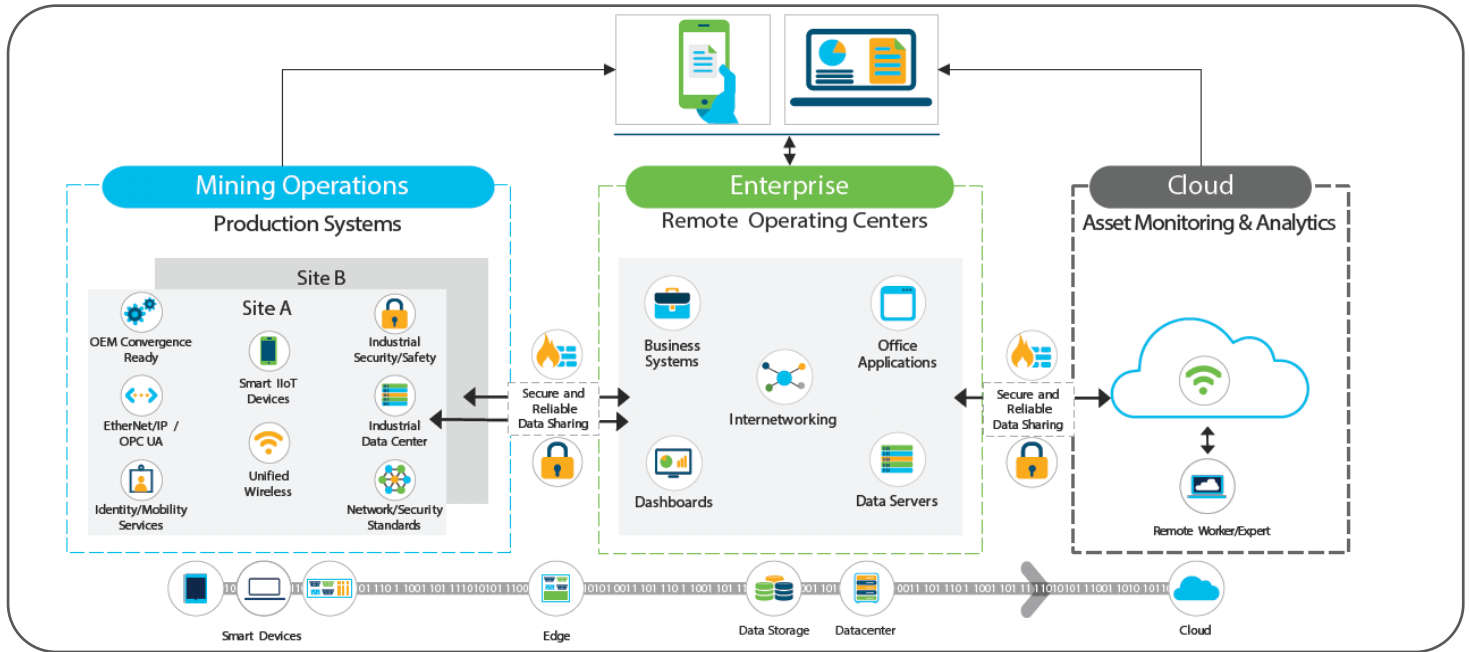


Figure 1: CPwE Architecture Diagram

Benefits



Flexibility and efficiency

With changing market dynamics, a more agile mining process allows for increased production profitability.



Visibility into operations

Production and assets visibility drives improved business decisions while increasing productivity and product yield.



Environment and Safety

Compliance with environmental and safety guidelines enables sustainability and employee retention.

Key Features

Remote Connectivity

- Incorporate a breadth of hardware and software offerings for a holistic, end-to-end network and security architecture
- Connect industrial operations to business systems using EtherNet/IP™, Stratix® industrial switch, and Catalyst switch lines to enable extensive interconnectivity and interoperability

Scalability and Manageability

- Flexibility to seamlessly add new skids or expand your operations as your business grows
- Future-ready architecture to support IIoT innovations (such as mobility, collaboration, analytics, and cloud connectivity)
- Simplicity on where to start

Security and Safety

- Automate and enforce security policy including access control through security group segmentation with Cisco TrustSec
- Integrate and secure data into a single information management and decision support system with real-time visibility
- Align to cybersecurity and worker safety standards such as IEC 62443, NIST 800-82 and US Homeland Security best practices

Next Steps

To learn more about the Cisco and Rockwell Automation alliance and joint validated designs, like CPwE, visit: www.cisco.com/go/cpwe

- www.cisco.com/go/rockwellautomation
- rok.auto/cisco

Design and Implementation Guides can be found at the following URLs:

- [Rockwell Automation Industrial Networking](#)
- [Cisco Design Zone](#)

For purchase information, reach out to your local [sales office](#) or [distributor](#)