

Continuity starts with design

A resilient architecture for mission-critical networks and communications

Alcatel·Lucent

In mission-critical environments, a brief loss of connectivity can disrupt services, slow the response and increase risk.

Organizations are updating their infrastructure and strengthening cybersecurity with limited resources. They need networks and communications that keep people connected, services available and information moving. When the connection fails, people must still reach each other, services must still run and you must still stay in control.

Continuity is not a hope or a promise.
It is an architecture.

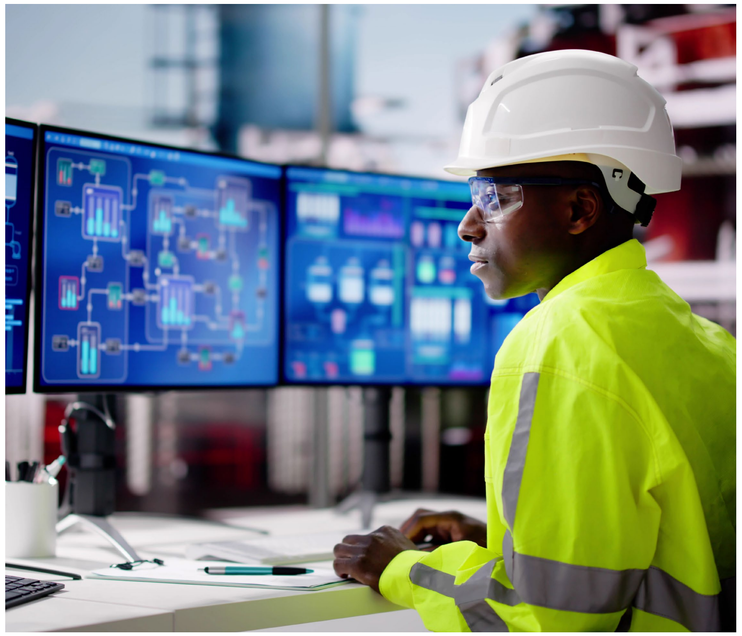


Keep people connected, operations running and your organization in control



Coordinate people

Connect teams, responders, operators and decision-makers through secure communications and collaboration.



Keep operations running

Maintain resilient networks and communications that help keep essential operations running.



Stay in control

Maintain visibility, security and governance across critical infrastructure, data and communications.

> **One hour of downtime costs more than $300,000 for 91% of medium and large companies. For 41% of large companies, it can reach $5 million (ITIC, 2024).**[1]

1 - https://itic-corp.com/itic-2024-hourly-cost-of-downtime-report/

The three pillars of continuity

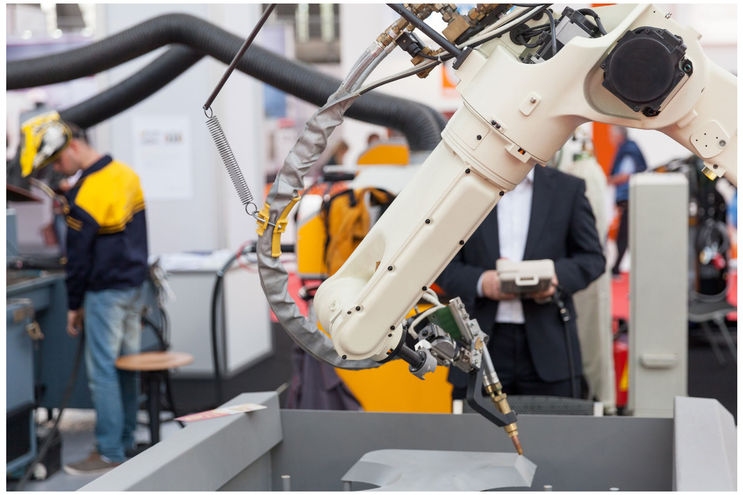


Coordination

Coordinate across people, teams or agencies when it matters most.

- Reach the right people quickly, with alerts sent to the right people on multiple devices and channels.
- See everything in one console, so you can see voice, video, alarms and location information together.
- Work as one team so agencies, departments and partners can work together on one shared platform.

Response begins with communication. Effective response depends on coordination.



Operations

Keep operations running, regardless of conditions, disruptions or location.

- Keep critical communications working in difficult conditions, such as extreme heat or cold.
- Keep services running with a network design that has no single point of failure, so one fault does not stop everything.
- Neutralize problems early with monitoring that detects issues, explains the cause and suggests a fix.

Continuity starts with how a system is designed, long before anything fails.



Control

Retain control of your infrastructure, your data and how you modernize.

- Gain one view of wired, wireless and data center environments, so operations are simpler and problems get solved faster.
- Keep data and communications under your control by deploying on premises, which supports sovereignty and security requirements.
- Control what connects and what communicates with zero-trust security that trusts no device by default.

True control means you own your data and your infrastructure, and you choose how to change.



Continuity by design

Mission-critical continuity depends on resilient infrastructure, secure communications and the flexibility to modernize without disruption. All three must work across both information technology (IT) and operational technology (OT) environments, with full operational control.

Built for operational continuity

Resilient systems that run on premises or at the edge, close to your operations, keep critical communications and network services working across IT and OT environments, even when the infrastructure is disrupted.

Flexible deployment options

Choose cloud, on premises or edge deployment, so you can modernize while keeping performance, resilience and control of your operations.

Security, resilience and sovereignty by design

Built-in security helps protect operational environments and supports regulatory requirements without unnecessary complexity.

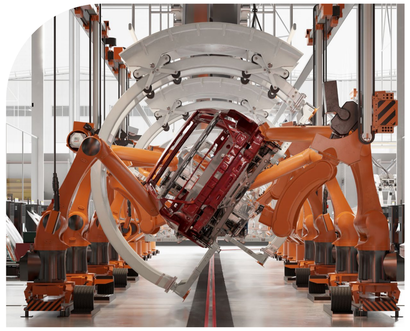
Modernize without disruption

Open standards let new technology work with what you already have. Change critical infrastructure step by step, at your own pace.

Alcatel-Lucent Enterprise networks and communications are built for mission-critical environments

Manufacturing

Keep production running, even when the unexpected happens. Connect IT and OT securely, contain faults and maintain operational continuity.





Transportation

Keep every journey connected, coordinated and moving. Link control centers and field operations to maintain safe, continuous services.

Healthcare

Keep care moving when every moment matters. Bring care teams and support services together to maintain continuity of care.





Energy and utilities

Keep critical infrastructure running and under control. Unite substations, control centers and field crews to maintain continuity across operations.

Public safety

Keep response teams connected when every second counts. Link first responders, command centers and real-time information for faster, coordinated emergency response.





Government

Keep public services running when citizens need them most. Bring agencies, critical services and operational systems together for better coordination and continuity.



Always connected. Always operating. Always in control.

Whether you run a hospital, transport network, utility, factory or public service, continuity depends on the same three pillars: coordination, operations and control.

Explore our Mission-Critical resources, including The continuity test.
www.al-enterprise.com/en/solutions/mission-critical-solutions

www.al-enterprise.com

© 2026 ALE International, ALE USA Inc. All rights reserved in all countries. The Alcatel-Lucent name and logo are trademarks of Nokia used under license by ALE. To view a list of proprietary ALE trademarks, visit: www.al-enterprise.com/en/legal/trademarks-copyright. Some visuals in this document may have been generated using AI and are for illustrative purposes only. DID26111001EN (November 2026)

Alcatel·Lucent