

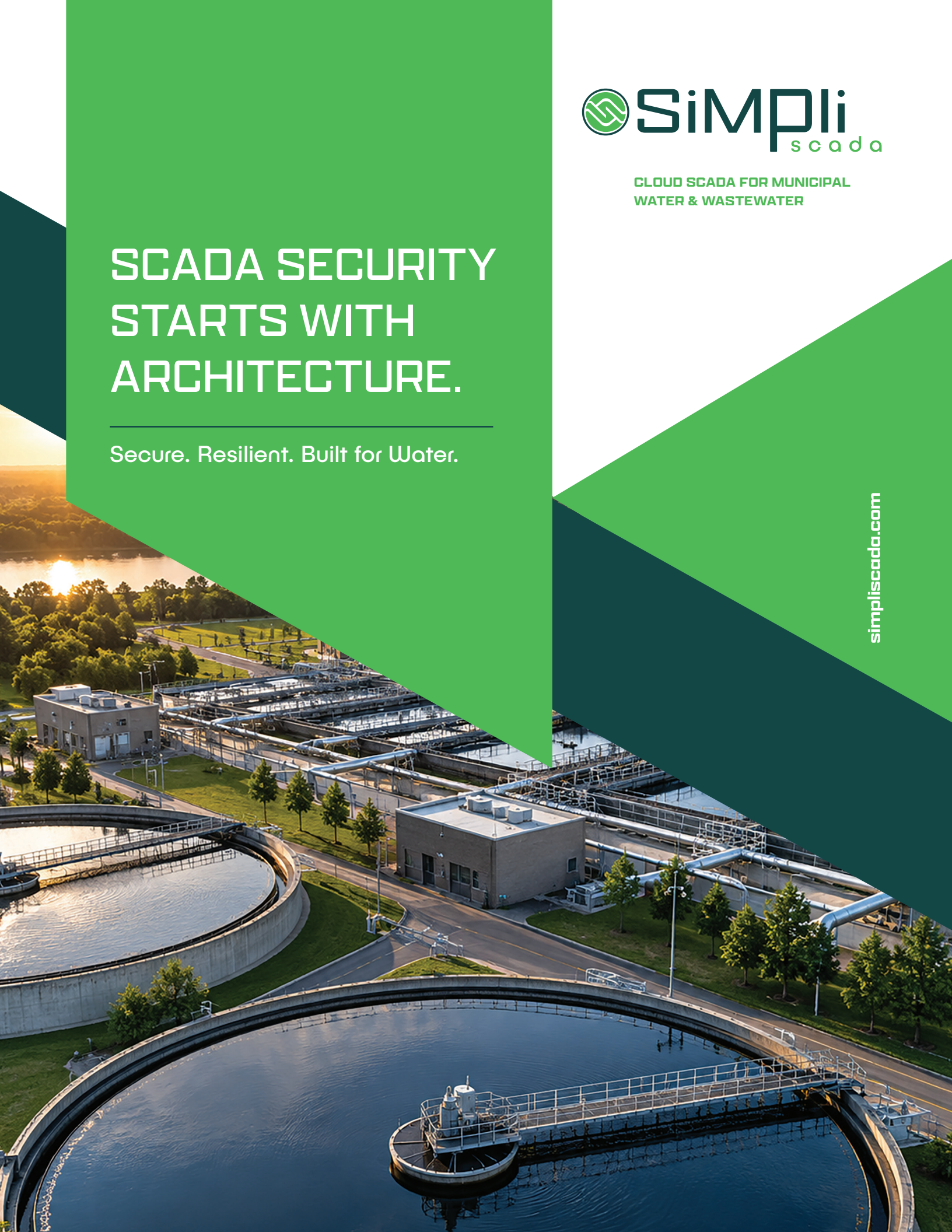


CLOUD SCADA FOR MUNICIPAL
WATER & WASTEWATER

SCADA SECURITY STARTS WITH ARCHITECTURE.

Secure. Resilient. Built for Water.

simpliscada.com



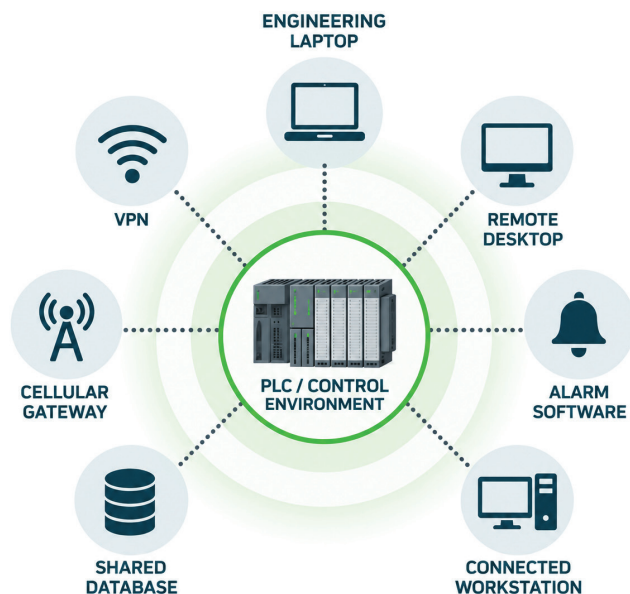
SCADA SECURITY STARTS WITH ARCHITECTURE.

The strongest security strategy is not another appliance added to an aging SCADA system. It is a system designed from the ground up to minimize exposure, isolate critical assets, authenticate every connection, and keep operating when something goes wrong.

SimpliScada was built for water and wastewater systems where visibility, control, and resilience are not optional.

Move Beyond the Air-Gap Illusion

Even “isolated” systems often have more connections than you think.



Every connection creates another pathway to inventory, secure, monitor, patch and maintain.

**THE STRONGEST
“AIR GAP” IS NOT
A LABEL.**

**IT IS A VERIFIED
ARCHITECTURE.**

THE QUESTION EVERY UTILITY SHOULD ASK

Can anything that can reach my PLC connect outward, receive a message, accept a remote session, or bridge to another network?

DESIGNED FOR DEFENSE IN DEPTH

DEVICE-LEVEL IDENTITY

Unique digital certificates authenticate every SimpliLink hub.

ENCRYPTED COMMUNICATIONS

TLS-encrypted channels with mutual device-to-cloud authentication.

OUTBOUND-ONLY CONNECTIVITY

No inbound firewall ports required at customer facilities.

SEGMENTATION + ISOLATION

OT, cloud services and user access remain separated.

LEAST-PRIVILEGE ACCESS

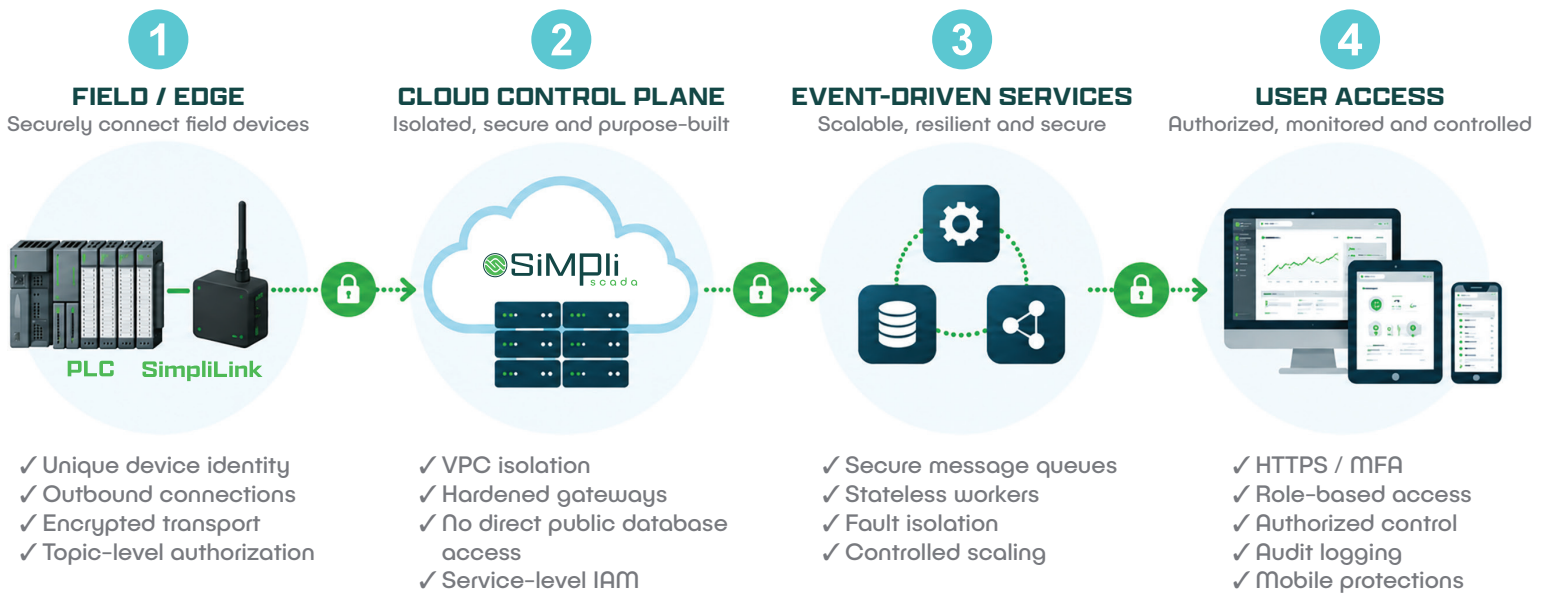
Role-based permissions and MFA restrict access and control.

RESILIENCE BY DESIGN

Distributed services, redundant processing and immutable backups help contain failures.

FOUR LAYERS. ONE SECURITY MODEL.

A modern architecture designed to protect field devices, cloud services, data, and authorized user access.



IDENTITY CONNECTION CLOUD RESILIENCE

Unique X.509 certificates for edge devices

Certificate revocation for compromised or decommissioned devices

Multi-factor authentication and role-based access

Authenticated, authorized, logged control actions

No inbound firewall ports required at the customer site

TLS-encrypted communications

Mutual device-to-cloud authentication

Strict topic-level authorization for telemetry and control

No shared command channels

VPC-isolated cloud infrastructure

Continuous connection monitoring and centralized logging

Purpose-built gateways help control and protect communication between systems

Cloud services operate with controlled, least-privilege access

Multi-region data architecture

Automated daily backups

Immutable backup protection

Rolling updates and maintenance without customer downtime

SimpliScada is designed so that a failure of an individual service, server, or infrastructure element does not automatically become a platform-wide outage. Field devices maintain persistent outbound connections; message queues buffer incoming data; user-facing services are redundant; and data is replicated across regions.

SECURITY IS ONLY PART OF THE EQUATION. Critical infrastructure also has to keep operating.

WHY CLOUD ARCHITECTURE CAN REDUCE EXPOSURE

FEWER EXPOSED SERVICES

Reduce reliance on public-facing VPNs, Remote Desktop and local web servers.

LESS INFRASTRUCTURE TO PATCH

Eliminate many local servers, operating systems, databases and third-party software layers.

CENTRALIZED IDENTITY

Manage user access, roles, MFA and on/off-boarding in one platform.

SECURE REMOTE VISIBILITY

Access authorized dashboards and alarms without opening a general-purpose pathway into the control network.

SITE-BY-SITE SEPARATION

Independent site connections reduce the need for broad shared networks across facilities.

FEWER LOCAL COMPONENTS

Reduce dependence on local servers, databases and supporting infrastructure.

MAINTENANCE WITHOUT CUSTOMER DOWNTIME

Rolling updates help keep the platform current without disrupting operations.

**SECURITY IS NOT
A FEATURE
YOU BOLT ONTO
SCADA.
IT IS AN
ARCHITECTURAL
DECISION.**

SimpliScada was built for organizations that cannot afford security shortcuts.

READY FOR A MORE SECURE APPROACH TO SCADA?

See how SimpliScada can simplify your architecture while strengthening security and resilience.

BOOK A DEMO

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