

Healthcare
CASE STUDY

One of the world's leading hospitals implements OTOPIQ to secure its medical oxygen and gas controllers.

When a controller governs the oxygen patients breathe, every change must be authorized and recoverable.

PROFILE
Ranked among the world's top 10 hospitals

SYSTEMS	CONTROLLERS	SCOPE	DEPLOYMENT
Medical oxygen and gas systems	**Schneider Electric Twido**	**Up to 100 controllers**	**Management server and engineering workstation**

In a hospital, medical oxygen and gas typically flow from a central supply to wards, operating rooms and intensive care. PLCs regulate that flow. A wrong setting or an unauthorized change is not an IT incident: it reaches patients directly.

The Challenge

The controllers are a legacy family, programmed from an engineering workstation (EWS). Any security layer had to fit that environment as it is, without touching existing PLC logic.

01

Life sustaining supply

Oxygen delivery cannot pause, so no controller change can be left to chance.

02

Escorted contractors

Several contractors work on the controllers. OT staff must physically escort each one.

03

Locked doors as protection

Locked control rooms were the only safeguard, and some were found unlocked.

04

Recovery

A bad change needs a backup of the PLC project, ready to restore.

The Solution

OTOPIQ runs on the hospital's management server and on the EWS, where the controllers are programmed, so every change to the systems behind the oxygen supply passes through it first.

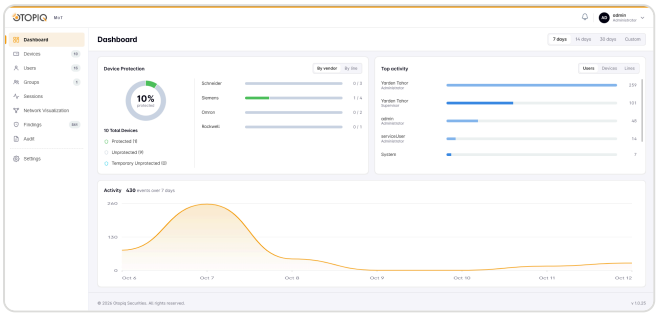
Secure programming
Controller programming runs through OTOPIQ on the EWS.

Contractor groups
Contractors organized into groups, each with its own permissions.

Automatic backup
PLC project files backed up, ready to restore.

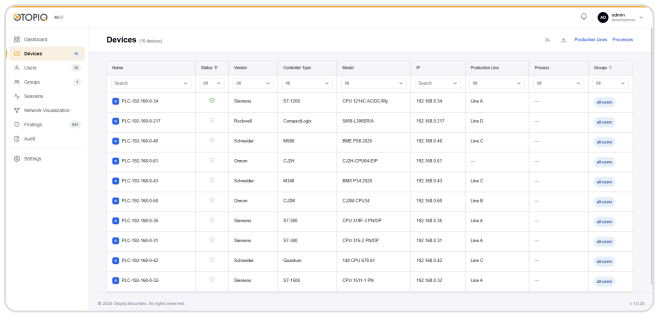
FailSafe kit
Encrypted USB kit keeps controllers maintainable if the server is down.

DASHBOARD



Users, protection status and activity in one view.

DEVICES



Every controller and its protection status.

Results and Benefits

- Changes to oxygen and gas controllers limited to authorized users
- Contractors organized into groups, each limited to its own permissions
- A known good project to return to after a bad change
- Maintenance continues even when the platform is down
- Admins and OT operators trained on their part of the platform

> Every time a contractor came in, one of us had to walk them to the control room and stay with them the whole time. Now I know exactly what each of them can touch, and if something changes, we can see it and put it back.

OT SUPERVISOR, LEADING MEDICAL CENTER

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OTOPIQ SECURITY