

CASE STUDY

Seamless migration of a live Luxriot EVO Global CCTV platform

High-availability server, network and control-room relocation while a 24/7 CCTV operation remained in service.

300+

cameras

24/7

manned operation

MULTI-SERVER

EVO Global platform

CONTINUOUS

external connectivity

THE OUTCOME

A complex live-system migration completed in controlled stages, using Luxriot mirror and failover capability alongside preconfigured network changes. Operators, recording, video wall services and external partner feeds remained available throughout, apart from short automatic handover intervals.

A LIVE SYSTEM THAT COULD NOT SIMPLY BE SWITCHED OFF

Migrating a mission-critical CCTV platform without losing operational continuity

The platform served more than 300 cameras across multiple recording servers and supported a continuously manned control room. Remote users and external partner connections also depended on the system remaining available during the works.

01

Server platform

Luxriot EVO Global central management, mirror server, multiple recording servers and a dedicated failover node.

02

Network migration

A second MikroTik router and a new internet service allowed the network to be migrated from bridged segments to managed routed VLANs.

03

Control-room continuity

Operator clients, video wall services and external feeds had to remain available while infrastructure was moved.

04

Repeated relocation

The architecture later enabled further control-room and equipment-room moves without redesigning the platform from scratch.

A THREE-STAGE MODERNISATION

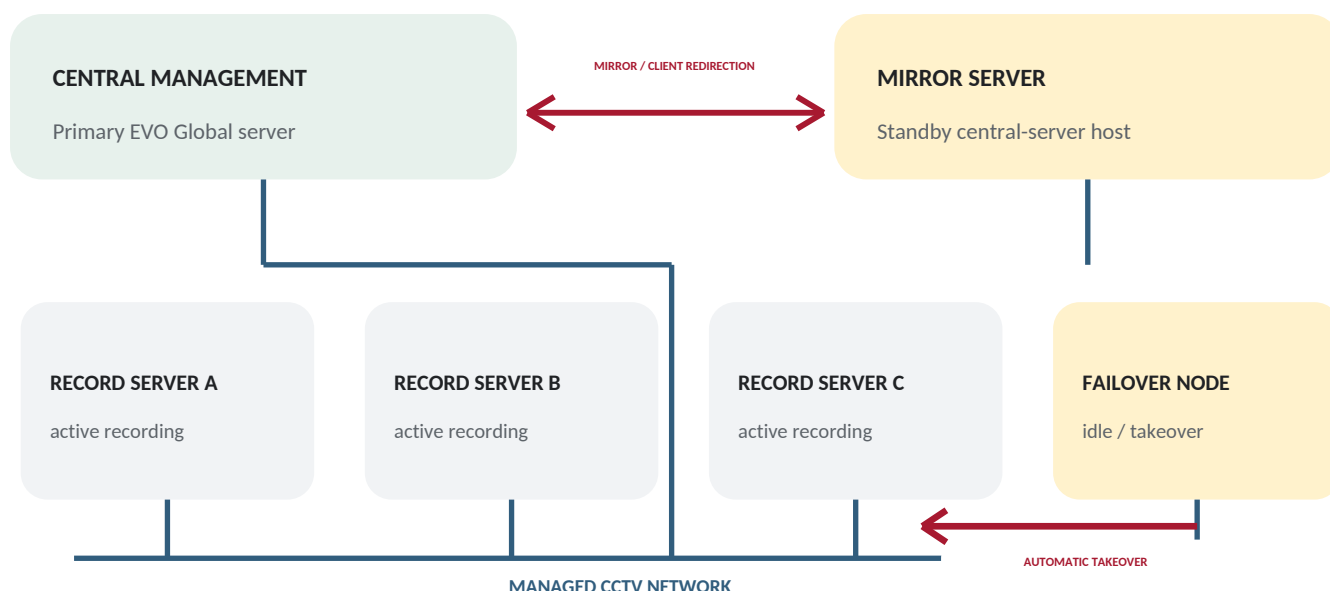
1**Core server & network move****2****Main control-room relocation****3****Later equipment-room relocation**

HOW CONTINUITY WAS MAINTAINED

Use the resilience already built into Luxriot EVO Global

The move sequence deliberately used the platform's central-server mirroring and recording-server failover. Components were moved one at a time, checked, restored and then returned to their normal role before the next component was touched.

This staged approach meant that resilience was not simply a standby feature waiting for a fault. It became an active part of the migration method: each planned server shutdown was treated like a controlled failure, allowing the system to transfer responsibility, prove the alternate path and maintain service before the hardware was physically moved.



CENTRAL SERVER MIRRORING

The mirror duplicates the central management state and provides a standby host. Luxriot clients can be redirected to the mirror while the primary central server is unavailable, then return when the primary server is restored.

RECORDING SERVER FAILOVER

Recording servers are monitored by the central system. If a recorder becomes unavailable beyond its configured timeout, an idle failover node can assume its configuration, maintaining live channels and recording during the handover.

WHY LUXRIOT EVO GLOBAL WORKED SO WELL

The resilience used for this migration is native to EVO Global rather than an add-on architecture. Central-server mirroring requires no additional licence, recording servers themselves do not require individual licences, and EVO Global supports an unlimited number of recording servers. The platform also places no restriction on normal Monitor client connections. This meant the system could be designed around operational resilience and scale, without adding separate server or client licence costs simply to achieve the migration strategy.

MODERNISED NETWORK. REPEATABLE RESILIENCE.

The migration became an opportunity to improve the network as well as move the hardware

BEFORE

Legacy bridged topology

Existing inter-site services and older network paths had grown around the operational system over time.



AFTER

Managed routed VLANs

A second MikroTik router supported the transition to routed VLANs, a new faster 1 Gbit/s internet service and secure WireGuard remote connectivity.

FOLLOW-ON WORKS

- **Control-room relocation**

The main operator environment was subsequently relocated and rebuilt, including new SIP telephony and integration with a specialist control-room fit-out partner.

- **Internal equipment move**

The core equipment was later moved again within the same building, from a lower-level equipment room to a new upper-floor location.

- **Further resilience**

New servers and switches were introduced and router redundancy was added, using the same staged approach to maintain service.

OPERATIONAL RESULT

A major live CCTV platform was moved and modernised without taking the control room out of service.

Camera recording, operator access, video wall functions and external partner connectivity continued through the staged migrations. The only interruptions were short handover periods while the redundancy mechanisms changed active server roles. Normal operation could then be restored just as simply.