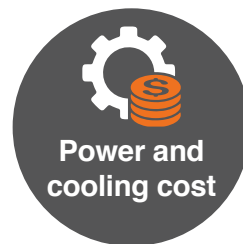# FiberSmart

Mission
Critical Infrastructure

When dealing with mission-critical databases and infrastructures, the HA or High-availability clusters are often called into play. HA clusters are groups of computers that render support to server applications that can be reliably utilized with a minimum amount of downtime.

An example of such a structure is found in an airport environment where it is more than business-critical but goes into Mission-critical. often these networks are supporting Life-Critical solutions as well usually in a dynamic and fast-changing environment. High Availability means that redundancy and protection must be built in at every level, but this level of active equipment redundancy brings its own challenges:

CHALLENGES

Complexity

Inflexibility

Configuration management

Update management

Equipment & maintenance cost

Power and cooling cost

SOLUTION

Fibersmart uses ROME technology to quickly, reliably, and cost-effectively automate fiber optic installations within Mission-critical infrastructures.

A passive optical fabric allows for architectural simplification whilst maintaining full redundancy, easy management including fast restoration from a connection failure, and full system visibility, including the physical layer. Delivering a HA network to underpin mission-critical services.

The ROME (Remote Optical Monitoring Equipment) platform is a revolutionary way to monitor and manage any type of fiber installation – from ducts to aerial routes.

It provides real-time optical loss monitoring and diagnostics for every single connection in your installation.

- Systems can be monitored
- Configured
- Tested
- Updated remotely
- Services can be added, changed, and migrated based on the end user's requirement change

All services can be easily switched from a failed 'hot data center' as a standby 'cold data center' is brought online to restore the full redundancy of the solution.