Axis Communications, Milestone and Razberi Technologies provide a joint surveillance solution for hard-to-reach, rugged environments

Industries such as Oil and Gas, border protection, heavy industry depots and city surveillance have more challenging surveillance needs than the average building. Infrastructure is not always present in these harsh environments, emphasizing the need for ready-built solution that can be remotely managed and monitored. Given their distance from operational oversight, they can be more vulnerable to vandalism and cybersecurity threats. They often require creative approaches to power the system and application. Traditional, commercial off-the-shelf IT solutions are not always viable and cost effective.

HOW A RUGGED, CYBERSECURE AND PRE-PACKAGED SOLUTION CAN REDUCE COST

The ability to deploy a pre-tested surveillance solution that includes cameras; an all-in-one surveillance appliance with PoE, managed switch, servers and storage in a rugged design; and cybersecurity and health monitoring integrated to the VMS makes these deployments cost effective. Enabling users to monitor the cameras from a VMS with notifications of cybersecurity and health monitoring for maintenance issues ensures that the security solutions can be maintained for high reliability and performance.

AXIS SOLUTION

The AXIS Q1615-E Mk II Network Camera is the world's first outdoor-ready network camera with an intelligent i-CS lens. This camera is perfect for outdoor surveillance, delivering superior image quality in footage of fast-moving objects under even the most demanding lighting conditions. A choice of three scene profiles lets you customize each AXIS Q1615-E Mk II in your surveillance solution to meet the requirements of specific scenes. AXIS Perimeter Defender for high-security, scalable protection within remote Critical Infrastructure environments.

RAZBERI SOLUTION

ServerSwitchIQ™ Rugged is a tough, intelligent video recording appliance that is designed to go wherever you need it and is manageable from wherever you are. Hardened out-of-the-box, ServerSwitchIQ Rugged is designed to withstand extreme temperature conditions from –40°C to 60°C (–40°F to 140°F) without requiring additional heating or air conditioning systems. The ruggedized appliance is fan-less allowing it to operate in dusty, dirty conditions that receive little to no maintenance. For damp environments, it fits in a standard NEMA IP66 rated enclosure saving hundreds or thousands of dollars on specialized temperature conditioned enclosures. It includes cloud-based health monitoring with Razberi VyneWatch™ and embedded cybersecurity protection with Razberi CameraDefense™.

MILESTONE SOLUTION

Milestone XProtect Corporate runs out of the box on the Razberi ServerSwitchIQ Rugged. It integrates Razberi CameraDefense™ cybersecurity solution with Milestone XProtect Corporate, enabling integrators to consistently guard the video surveillance systems under their purview. The Razberi integration with Milestone creates a single pane of glass for Milestone VMS operators to be notified and take action if CameraDefense detects a cyber threat.

Five key components of a ruggedized, cybersecurity-ready surveillance solution

1
Connect cameras to an all-in-one surveillance appliance

Oil and Gas applications require ruggedized cameras and surveillance recording appliances that can withstand harsh conditions.

2
Find a pre-ruggedized solution instead of expensive enclosures

Prepackaged solutions increase consistency and ensure that operators are aware of the configuration at remote locations without expensive custom build outs.

3
Consider network and power challenges and consider solar solutions for some applications

Bandwidth and power can be one of the biggest challenges for remote surveillance. Seek solutions that reduce the reliance on bandwidth to carry surveillance video streams constantly over the network, recording closer to the edge. For power, use all-in-one PoE powered devices and consider the use of solar as an option.

4
Harden cameras and surveillance appliances from cybersecurity threats

Ensure any surveillance solution has automated cybersecurity software built in to remotely manage best practices to harden cameras and appliances from being a security threat to the surveillance or the network. This includes password protection, white listing and other key settings.

5
Seek VMS integration for health monitoring and cybersecurity for better remote management

Because of the nature of remote Oil and Gas and other applications, the monitoring integration with a VMS is crucial to proactive manage-ment. More often than not, there is not management oversight at the location of the surveillance.

Image: Axis, Razberi, & Milestone utilizing all five components of a cybersecure framework for a secure surveillance solution protecting Ameresco's remote solar energy infrastructure.

milestone   razberi technologies   AXIS COMMUNICATIONS