THE ANIXTER DIFFERENCE

Organizations responsible for building and maintaining critical infrastructures face the challenge of securing their facilities from cyber and physical risks. The equipment and systems needed to support efforts to prevent, respond and report potential incidents are crucial components to this infrastructure.

Anixter understands the defense in depth approach for security video surveillance, access control and industrial networking to meet the challenges a utility faces. As your partner, we can provide you with solutions for the many challenges you face—from selecting the right products and technologies to deploying projects on time and on budget. With a wide breadth of products, technical expertise and global supply chain capabilities.

Anixter can support you in many areas:

- Sophisticated cyber and physical security systems to protect people and assets
- Electrical and electronic wire and cable used for power and control in substation and generation plants
- Industrial communication products for utility environments

Anixter is dedicated to keeping customers current on the latest products, applications, standards and emerging technologies.

INFRASTRUCTURE SOLUTIONS

ELECTRICAL AND ELECTRONIC WIRE AND CABLE

Anixter carries the largest and broadest inventory of wire and cable in the world. From control cable to specialty wire and cable products, we can provide you with the right products when, how and where you need them.

COMMUNICATIONS INFRASTRUCTURE

The physical cable plant is vital to delivering critical information necessary for incident prevention and response. Anixter provides complete end-to-end solutions for copper, fiber, data center, power and cooling solutions to deliver optimal performance of mission-critical systems.

INDUSTRIAL COMMUNICATIONS AND CONTROL

Used in substations and power plants, Industrial Communications and Control products provide redundant connections to SCADA systems, connect utilities' legacy protocols and provide reliable parallel wireless communication in the event of cable failure or damage. These products enable resilient surge protection, low-voltage power and uninterruptible power supplies. Anixter has the right solution to facilitate communications from the substation to the SCADA and security systems.

SECURITY

Anixter understands that in order to optimize the protection of your utilities you must install physical security measures in multiple layers to reduce or mitigate risks. If one physical security measure is compromised, at least one other measure needs to provide continuous protection. Products from Anixter enable your facilities to be redundant and resilient.
INFRASTRUCTURE SOLUTIONS (INSIDE THE SUBSTATION)
Anixter carries the largest inventory of wire, cable and related supplies in the world. We can assist you with selecting the best products that meet the form, fit and function of your application. We have specialists on staff that are familiar with the cabling challenges utilities face within a substation.

WIRE AND CABLE PRODUCTS
- Control and power cable
- Medium-voltage (5 kV to 46 kV) cable
- Grounding and bare copper cables
- Hook-up and lead wire
- Instrumentation and thermocouple cables
- Custom wire and cable products

INDUSTRIAL COMMUNICATION PRODUCTS
- Industrial Ethernet cabling and connectivity
- Harsh environment fiber optic cable and components (preterminated and bulk)
- Industrial hardened active networking components
- Ruggedized gateway products

SUPPORT AND SUPPLY PRODUCTS
- Cable management
- Terminations, splices and lugs
- Grounding products
- Enclosures

SECURITY SOLUTIONS
With the knowledge of the latest products, applications and emerging technologies, we can help you comply with governmental regulations. We can help you select the best products and services for your unique applications so you can better meet your physical and cyber security requirements.

VIDEO SURVEILLANCE
- Cameras (analog and IP)
- Video analytics
- Recording and management
- Thermal imaging
- Infrared illumination
- License plate recognition

AUDIO COMMUNICATION
- Speakers
- Mass notification
- Emergency call stations

INDUSTRIAL NETWORKING
- Industrial hardened Ethernet switches
- Harsh environment fiber
- Industrial connectors
- Media converters

ACCESS CONTROL
- Gate controls

INTRUSION DETECTION
- Sirens
- Strobes
- Motion detectors

BENEFITS OF PHYSICAL SECURITY IN UTILITY APPLICATIONS
Anixter can help you tailor physical security solutions to secure mission-critical utilities:
- Remote monitoring to manage unmanned substations
- Distributed recording with centralized management in a security operations center (SOC)
- Compliance with Government regulations
1. **ACCESS CONTROL**
   a. Door locking hardware
   b. Card readers and entry keypads
   c. Key cards
   d. Door sensors
   e. Gate controls

2. **INTRUSION DETECTION**
   a. Intrusion sensors (beam, acoustical and motion)
   b. Perimeter sensing cable (buried or fence)
   c. Alarm horns and strobes
   d. Intercoms and speakers

3. **VIDEO SURVEILLANCE**
   a. Network and analog cameras
   b. Specialty cameras (thermal and infrared)
   c. Vandal-proof housings
   d. Video management/analytics software and recording hardware*
**POWER AND PROTECTION**
- Uninterruptible power supplies (UPS)
- Remote power solutions (solar/battery)
- Electronic surge protection
- Grounding and bonding
- Power supplies

**INDUSTRIAL NETWORKING**
- Industrial hardened Ethernet switches
- Wireless (PtP, PtMP, mesh, Wi-Fi, cellular)
- Media converters

**INFRASTRUCTURE**
- Network cabling (copper and fiber)
- Low-voltage (multiconductor) cabling
- Harsh environment fiber

**INDUSTRIAL ENCLOSURES**
*Not shown*
SUPPLY CHAIN SOLUTIONS: MINIMIZING RISK

Anixter’s Supply Chain Solutions can help utility customers manage and optimize their asset utilization, capital efficiencies and business processes while reducing costs. Teaming with Anixter allows customers to shift the responsibility of their current supply chain processes and focus on their core competency.

By combining application engineering with deployment engineering, we provide you with less risk and greater likelihood your project will be completed on time and under budget. These best practices streamline the flow of material, and as a result, lead times are minimized and products arrive per project phase. These are examples of some of our supply chain capabilities:

- Project inventory staging
- DOA check, firmware update and IP addressing on cameras
- Rack and camera housing assembly
- Asset and serial number tracking
- Kitting
- Cable cutting and labeling

Solutions that enable products to be readily available coupled with a wide variety of packaging, assembly, and kitting solutions, minimize on-site efforts and result in less risk.

ANIXTER’S SUPPLY CHAIN MODEL

Anixter’s supply chain model includes six key supply chain components that must be addressed when building an effective solution. To be able to scale to a project’s or program’s demands, the solution takes into account the process as a whole, not just the individual components of the model.

**SOURCING**
- Product specification and selection
- Supplier management and rationalization
- Inventory availability and visibility

**LOGISTICS**
- Lead-time management of the products into our distribution facility
- Effectively manage inbound logistics from different manufacturers

**INVENTORY MANAGEMENT**
- Leverage Anixter’s $1 billion inventory, ready to ship
- Cable management programs

**PRODUCT ENHANCEMENT & PACKAGING**
- Preassembly and kitting
- Packaging and labeling by project phase
- READY!™ To Install solutions (paralleling, PARAPULL™, pulling eyes)
- Cable cutting
- Labor saving services

**DEPLOYMENT/REPLENISHMENT**
- Multisite rollouts and single-site deployments
- Just-in-time on-site material management and replenishment programs
- Unique delivery requirements (union, inside delivery, crane lift, etc.)
- Import and export document preparation and coordination
- Dedicated implementation teams
- Integrated tracking systems with transportation companies

**EBUSINESS SOLUTIONS**
- EDI (collaborate electronically on order information, purchase orders, invoices and shipping notices)
- Catalog feeds that provide product information into your procurement system
- Business-to-business systems integration
- Custom performance reporting

**READY! DEPLOYMENT SERVICES**

READY!™ Deployment Services by Anixter map our distribution and Supply Chain Solutions to the construction or deployment process of any technology project. We combine sourcing, inventory management, kitting, labeling, packaging and deployment services to simplify and address the material management challenges at the job site(s). READY! Deployment Services by Anixter will help you improve the speed to deployment, lower your total cost of deployment and deliver your product specifications as planned.
TECHNICAL EXPERTISE

Anixter understands the various power and IP security challenges you face. From the interoperability of the IP security system to the integration of perimeter security, access control and video surveillance, our technical solutions managers provide an unbiased manufacturer approach rooted in Anixter’s IP knowledge, our Infrastructure Solutions LabSM and involvement in ONVIF, the international committee developed to set standards for physical security solutions.

Association and Committee Memberships
- Telecommunications Industry Association (TIA)
- International Organization for Standardization (ISO)
- Institute of Electrical & Electronics Engineers (IEEE)
- ONVIF
- Building Industry Consulting Services International (BICSI)
- Security Industry Association (SIA)
- Control Systems Integrators Association (CSIA)
- Association for Passive Optical LAN (APOLAN)
- The Energy Telecommunications and Electrical Association (ENTELC)

Technical Certifications
- ASIS CPP (Certified Protection Professional)
- More than 90 BICSI Registered Communications Distribution Designers (RCDD)
- PSPs (Physical Security Professional Certification)
- CCNAs (Cisco Certified Network Associate)