



CROSSBOW™ *Station Access Controller*

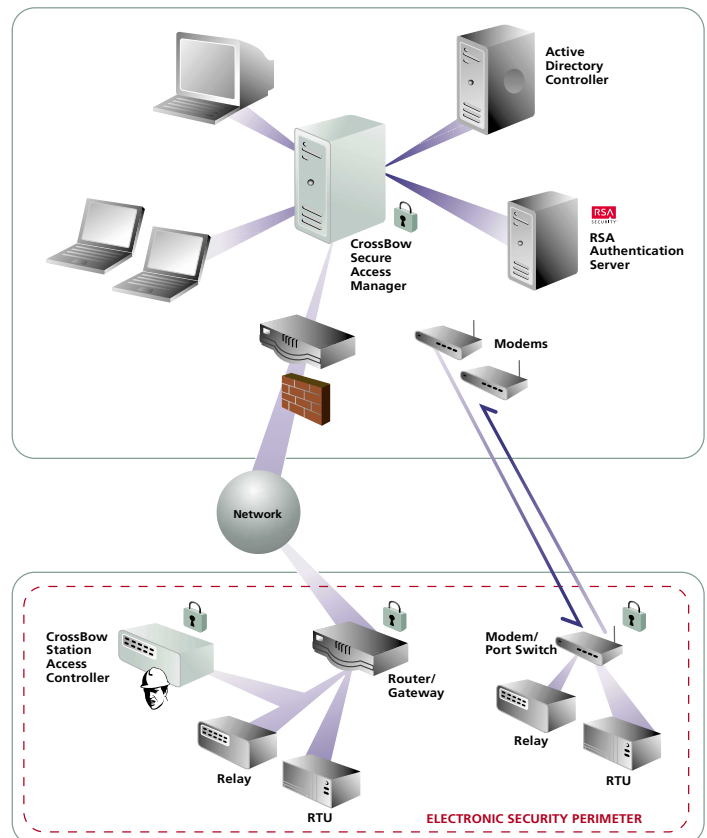
CrossBow™ is a proven Secure Access Management solution designed to provide NERC CIP compliant access to Intelligent Electronic Devices. The CrossBow **Station Access Controller** complements the product family by providing a solution at the substation for managing local IED access, while maintaining stringent security methodologies in line with NERC CIP compliance and industry best practices. This allows the CrossBow product to further enhance productivity gains for administrators and users while achieving full NERC compliance in managing, securing and reporting on remote access. When used in combination, the CrossBow Secure Access Manager and Station Access Controller form an integrated, comprehensive solution with a seamless configuration environment.

Benefits

- Complete solution for both local, substation access and enterprise-wide administration
- Automatic configuration for all Station Access Controllers through the central Access Manager
- Simple, user-friendly GUI, granting transparent access to IEDs from virtually any software application
- Preserves investment in legacy gateway devices and communication infrastructure
- Strong (2-factor) authentication using existing methodologies (e.g. RSA SecurID)
- Meets NERC standards for cybersecurity
- Individual user accounts
- Audit log

System Architecture

Bow Networks' CrossBow allows an IED maintenance application to remotely communicate with its associated IEDs, as if the user were directly connected to the IED with a serial cable or network connection. The Station Access Controller expands the solution by positioning a hardened controller directly in the substation for managing users who are physically present in the substation. Users can now log into the CrossBow central authority from within the substation, maintaining consistent security administration in adherence with NERC CIP. Alternately, the Station Access Controller provides for a secure, "Emergency Mode", where the network connection to the enterprise has been lost. In this mode, security is still maintained in adherence with NERC CIP, while providing the local user full functionality, and complete logging of activity.



Features

Security

- Individual user accounts
- Two-factor authentication, using RSA SecurID (optional)
- Audit log of all IED accesses within the substation
- Support for Active Directory
- Blocking and logging of specified IED commands
- Automated, global password management of IEDs

Supports wide range of remote gateways

- SEL PRTU/2020/2030/2032
- Garrettcom Router family
- Bow Networks eLAN Substation Communications Server
- Novatech Orion
- Telephone port switches



- Teltone Gauntlet Gateway
- Other routers and terminal servers
- Most vendors applications

Ease of administration and reporting

- IED and User information inherited from CrossBow SAM
- No need for station by station configuration
- Structured view of IEDs (region/substation/gateway)
- Supports groups of IEDs and users
- Transparent integration with Active Directory through CrossBow SAM
- One button NERC CIP reporting

Approved Hardware Model Information

- Non-proprietary hardware platform
- Support for FLASH and hard drive storage
- Substation-grade 125 VDV power supply available
- C37.90 hardening on all I/O

	CP-150	Garrettcom Substation Computing Platform
		
Ethernet ports	1	2 standard
Serial Ports	7	2
Dimensions	10" x 4.27" x 5.4" Panel Mounted	2 rack units in 19" rack
Temp	-10 to +60 deg C	-40C to +70 deg C
Storage	Flash or Hard Drive	Flash Drive
Power Supply	48 or 125VDC (external)	Integrated 125VDC

About Bow Networks

Bow Networks was founded in 1986 to provide real-time computing expertise to utilities and electric industry vendors. For more than twenty years, the Company has established its reputation as a leader in applying sophisticated network-based solutions and user applications, expert knowledge of protocol translation, security, enterprise networks, LAN/WAN technology, and communications media. Bow Networks is fully committed to security in the electric utility industry and has invested significantly in what is now the most proven solution for secure remote access management – CrossBow.

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