

CROSSBOW

Station Access Controller

Features

- In a substation, the SAC software provides secure local substation access to IEDs
- Requires users in the substation to locally authenticate before accessing secured systems
- Station-specific inventory of all accessible devices
- Automatic configuration through the central Secure Access Manager (SAM)
- Manages all local access connections for "Emergency Mode" operation during remote network access failure
- Easy to learn and use

CrossBow is a proven Secure Access Management (SAM) solution designed as an access security management tool, focused on compliance with the NERC CIP cyber security standards and as a productivity tool for remote access to Intelligent Electronic Devices (IEDs) in groups of substations.

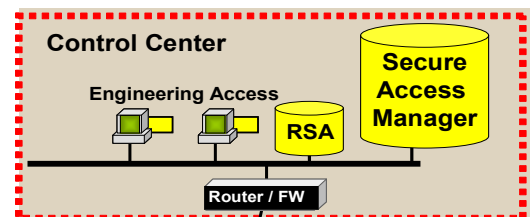
The CrossBow Station Access Controller (SAC) is an auxiliary product for deployment in a large individual substation, and is used in conjunction with a centralized CrossBow Secure Access Manager (SAM) server to form an integrated, comprehensive solution with seamless configuration in an operational environment. SAC provides secure local access and control, and is coordinated with the central CrossBow SAM functions during normal operations.

When connectivity to the central SAM is interrupted, SAC continues to provide local user authentication, data management and session logging, i.e., a secure "Emergency Mode" local system. In this mode, security is maintained in accordance with NERC CIP requirements in the substation, while providing the local users with full functionality and complete log records of events and activities. When the SAM connection is restored, synchronization of SAM and SAC are restored also.

The CrossBow Station Access Controller is typically packaged with a GarrettCom-manufactured hardened Substation Computing Platform (SCP) to achieve high system reliability in large substations or other critical industrial sites.

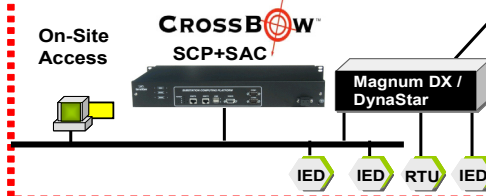
Centralized:

- Profile administration
- Enterprise security integration
- Log consolidation
- NERC Audits and reporting
- Device management
- Management reporting



Digital Network:
IP, MPLS, TDM, FR, Fiber

Substations or other Critical Sites



Distributed:

- User authentication/authorization
- Session communications path
- Session detail logging
- SAC on Substation Computing Platform (SCP)



GarrettCom[®]
Industrial Networking at Its Best™

The CrossBow Architecture unifies access management with substation networking, Electronic Security Perimeter solutions, and support for IP-based physical security systems.

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

Remote Gateways supported

- GarrettCom Magnum and DynaStar families
- SEL PRTU/2020/2030/2032
- Novatech® Orion
- Telephone port switches
- Industrial Defender (Teltono) Gauntlet Gateway
- Other routers and terminal servers

Ease of use, 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

©2009 GarrettCom, Inc. Printed in United States of America
Doc.No. SAC 09/09
GarrettCom Inc. reserves the right to change the specifications, performance characteristics and/or model offerings without notice. GarrettCom is a registered trademark and Magnum is a trademark of GarrettCom. UL is a registered trademark of Underwrites Labs. XPE is registered trademark of Microsoft. CrossBow is a trademark of Bow Networks. RSA is a trademark of RSA Security. Other trademarks as noted.



GarrettCom®

Industrial Networking at Its Best™

GarrettCom, Inc.

47823 Westinghouse Drive

Fremont, CA 94539

PH: (510) 438-9071

FX: (510) 438-9072

Email: mktg@garrettcom.com

Ordering Information

- | | |
|---------------------|---|
| CB-SAC-01-HV | SAC licensed software on industrial-rated SCP - 2GB memory, 16GB flash drive, two USB ports, two Ethernet Ports, two COM ports, one VGA display port, Windows XPE, SQL Server Express, 90-264V AC or DC |
| CB-SAC-01-LV | SAC software on industrial-rated SCP - 2GB memory, 16GB flash drive, two USB ports, two Ethernet ports, two COM ports, one VGA display port, Windows XPE, SQL Server Express, 18-60 V DC power |

Optional Substation Computing Platform (SCP) Summary Specifications:

CPU: Intel® Atom™ N270 1.6GHz /512KB L2 Cache with 533MHz FSB

BIOS: AMI BIOS , SPI 8Mbit Flash ROM

SYSTEM MEMORY: 2 GB 200 pin 533/400 MHz DDR2 SDRAM SODIMM – 2GB maximum memory

ETHERNET: Two Realtek® RTL8111 10/100/1000 RJ45 ports

EXTERNAL I/O: Two USB 1.0, VGA port for external monitor, two COM ports

VIDEO: 18 bit dual channel LVDS from Intel® 945 GSE. High resolution, capable of WSXGA+ or 1680x1050 pixels

WATCHDOG TIMER: Software programmable – supports 1-255 sec system reset

LED INDICATORS: Green when power is ON

OPERATING SYSTEM – Microsoft Windows XP Embedded (XPE), avoids software patch management, upgrades, revs

POWER SUPPLY:

HIGH VOLTAGE (H): 90-250V AC or DC, 50-60Hz, 1A, 85W

LOW VOLTAGE (L): 18-60V DC, 4.5A, 80 W

Single or dual PS, same or mixed H/L

POWER CONSUMPTION: less than 15 Watts

COOLING METHOD: Convection Cooled (no fans)

OPERATING TEMPERATURE: From -40°F to 185°F (-40°C to 85°C) per IEC 60068 Operating Temperature "Type Test"

AMBIENT RELATIVE HUMIDITY: 5% to 95% (non-condensing)

WEIGHT: 5 Kg (11 lb)

DIMENSION: 17.5" W x 11" D x 2.25" H

MOUNTING: Front-position 19" rack mount brackets included

WARRANTY: Three Years Made in USA

See datasheet for additional information

