CROSSBOW
Starter Edition

Designed for smaller cooperatives and municipal utilities requiring secure password management to their remote site locations, CROSSBOW Starter Edition provides for up to 5 users and 200 remote devices. As your network grows, optional CROSSBOW modules can be added for additional features and scalability.

CROSSBOW Starter Edition is an enterprise solution that provides cyber-secure local and remote user access for password management of remote devices. It allows an Intelligent Electronic Device (IED) maintenance application to remotely communicate with its associated IEDs as if the users were directly connected to the device. RUGGEDCOM CROSSBOW's client-server architecture is designed to allow a utility to easily manage remote connectivity to its entire population of field IEDs. User access is role based, and

the user is not provided with any device password or network topology detail. All user activity is logged and reported per security best-practice recommendations.

Ease of administration
- Administration interface allows management for remote IEDs and designated users
- Structured view of IEDs (region/site/gateway)
- Grouping of devices and users
- Configurable sub-admins

Flexible architecture
- Client-server or "clientless" architecture using virtual desktops
- Available redundancy
- Dial-up or WAN access

Broad device support
Preserves investment in legacy gateway devices and communication infrastructure
- Siemens RUGGEDCOM routers and switches
- Garrettcom
- SEL
- GE
- ABB
- Cooper
- RFL
- Many other IEDs

CROSSBOW Starter Edition
- One CROSSBOW Secure Access Manager server license
- 5 User licenses
- IED license for up to 200 devices
- User documentation

usa.siemens.com/ruggedcom

RUGGEDCOM CROSSBOW Secure Access Manager (SAM)

For user access to remote IEDs, the CROSSBOW clients establish secure SSL connections to the SAM. The SAM is connected via a secure WAN to gateway devices on the transformer substation, such as RUGGEDCOM RX1500 or another supported device. The gateway establishes the connection to IEDs either directly or through lower-level remote terminal units (RTU).

Typical workflow

RUGGEDCOM CROSSBOW is specifically designed to be intuitive and enhance users' normal activity. After logging in to the central SAM server, the user will be presented with a simple directory structure, displaying regions, facility sites, and devices, to which that user has been granted access to by the administrator. From there, the user simply clicks on a chosen device to display a list of applications associated with the device. Selecting a program will instruct RUGGEDCOM CROSSBOW to launch the application and initiate a connection to the device – no need to negotiate connections, boot applications, or remember passwords. In most cases – just one click – the user is interacting directly with the device. Sophisticated password management functionality allows remote management of router, gateway, and IED passwords supported.
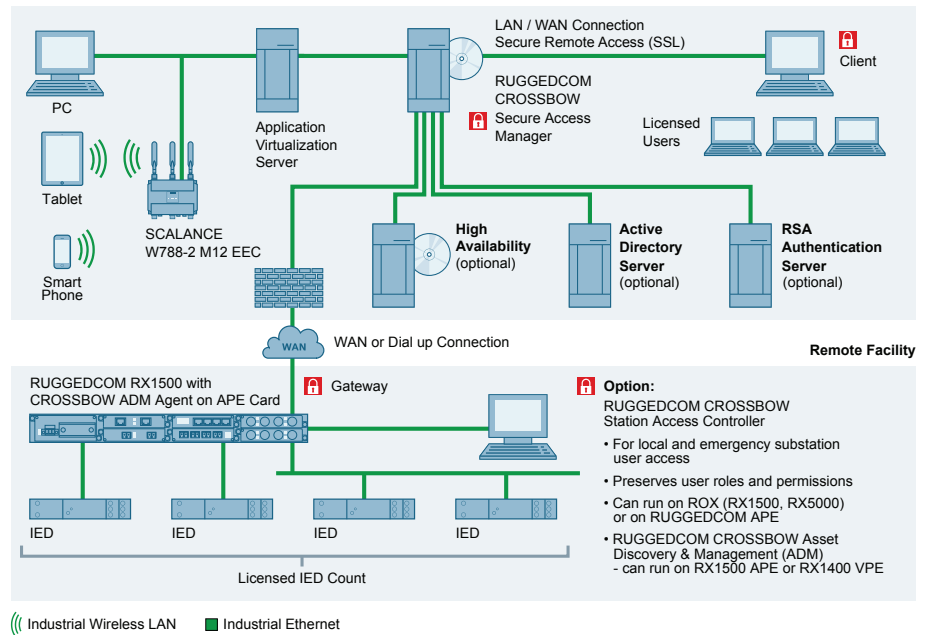
RUGGEDCOM CROSSBOW SAM also connects through to IEDs with their own direct modem access, such as for pole top applications, meters or process control, condition monitoring IEDs, and other host computer/servers. This ability of CROSSBOW to provide secure RBAC remote access to any IED makes it an essential tool for any IED-based application for electric, water and gas utilities.

Server and client requirements

RUGGEDCOM CROSSBOW is part of the Siemens family of communication products. It allows users to launch a device maintenance application from a workstation located in a control center or at a facility (i.e. substation) and communicate with devices or gateways remotely as if the user were directly connected to the end device. Once connected, a user can maintain, configure, and/or retrieve information from the end device.

RUGGEDCOM CROSSBOW client-server architecture allows users to easily and securely manage remote connectivity to an entire set of field devices.

Please refer to the CROSSBOW Preparation Guide for the latest system requirements.