SIEMENS

RUGGEDCOM CROSSBOW Starter Edition

Flyer

Edition 02/2019

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Designed for smaller Industrial Control System (ICS) networks requiring secure password management to their remote site locations, RUGGEDCOM CROSSBOW Starter Edition provides for up to 5 users and 100 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 an operator 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.

RUGGEDCOM CROSSBOW Starter Edition

- One CROSSBOW Secure Access Manager server license
- 5 User licenses
- IED license for up to 100 devices
- User documentation

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

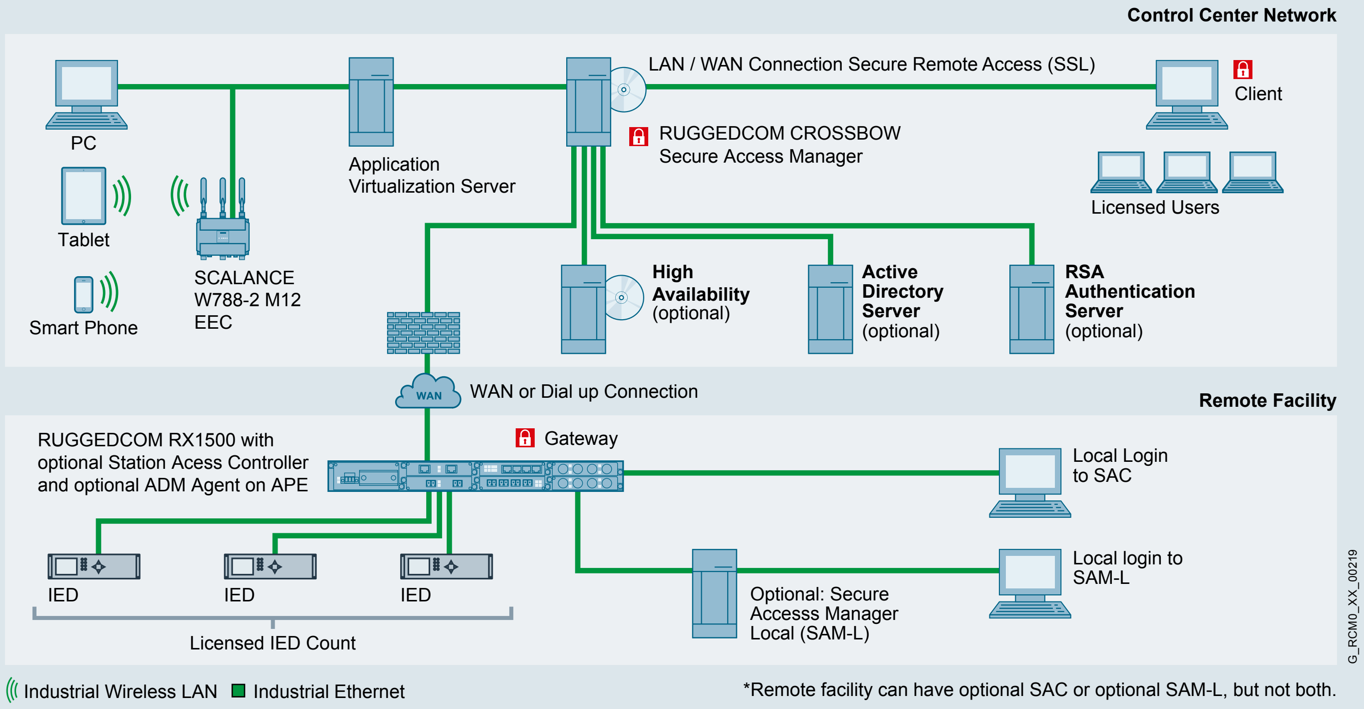
Flexible architecture

- 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

- RUGGEDCOM routers and switches
- Siemens SIPROTEC
- Garrettcom
- SEL
- GE
- ABB
- Cooper
- Many other IEDs


Control Center Network
PC
Tablet
Smart Phone
SCALANCE W788-2 M12 EEC
Application Virtualization Server
LAN / WAN Connection Secure Remote Access (SSL)
RUGGEDCOM CROSSBOW Secure Access Manager
Client
Licensed Users
High Availability (optional)
Active Directory Server (optional)
RSA Authentication Server (optional)
WAN
WAN or Dial up Connection
Remote Facility
RUGGEDCOM RX1500 with optional Station Acess Controller and optional ADM Agent on APE
Gateway
Local Login to SAC
Local login to SAM-L
IED
IED
IED
Licensed IED Count
Optional: Secure Accesss Manager Local (SAM-L)
G_RCM0_XX_00219
Industrial Wireless LAN
Industrial Ethernet

*Remote facility can have optional SAC or optional SAM-L, but not both.

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 adevice maintenance application from a workstation located in a control center or at a facility 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.

Security information

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept.

For more information about industrial security, please visit:
http://www.siemens.com/industrialsecurity

The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

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