

SecurityGateway

VPN Aggregator, Router and Firewall



- Compact 19" 1RU VPN aggregation device with high availability (optional)
- Static and dynamic routing
- Secured by design with stateful firewall, + Radius
- Automated PKI (X.509) with integrated DNS resolver
- User-friendly, easy to use web-based GUI

SecurityGateway is a major building block of RAD's Industrial IoT solution, serving as a state-of-the-art VPN aggregation appliance.

In the fast growing market of IIoT and the need for secured communication, SecurityGateway provides a small form-factor yet powerful and cost-effective solution for aggregating multiple remote sites.

INTEROPERABILITY

SecurityGateway interoperates only with RAD's SecFlow product line.

MARKET SEGMENTS AND APPLICATIONS

SecurityGateway aggregates multiple VPNs from remote SecFlow devices and addresses Industrial IoT application, for example:

- Distributed automation in secondary substations
- Smart meter concentration
- Water resources management
- Smart retail.

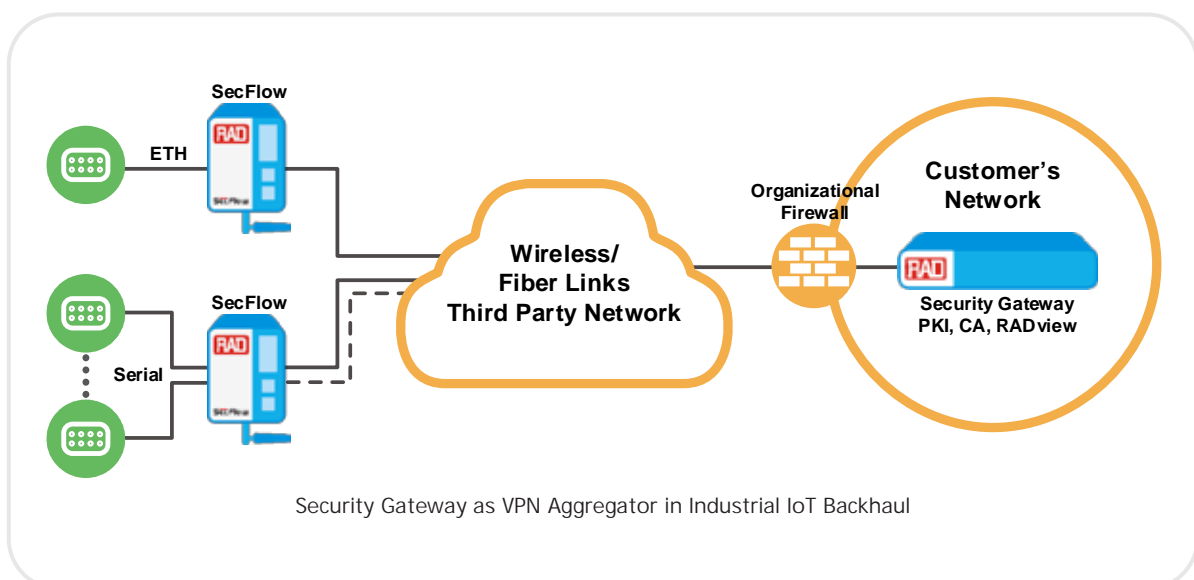
SecurityGateway is usually located behind the organizational firewall. It may also serve as WAN gateway, depending on the customer needs.

MANAGEMENT AND SECURITY

In addition to routing, SecurityGateway features rich security capabilities (e.g. firewall, automated PKI, and RADIUS).

The device can be managed via the SecurityGateway web-based interface. Local or remote (SSH) menu-driven access is also supported for basic and initial configuration.

SecurityGateway is supported by RADview (RAD's network management system).



SecurityGateway

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Specifications

STANDARDS

IEEE 802.3, 802.3u, 802.1D, 802.1Q, 802.1p

GBE INTERFACE

Number of Ports

4 copper ports

Data Rate

10/100/1000 Mbps

Autonegotiation

Connector

RJ-45, shielded

Frame Size

1522 bytes

SECURITY

RADIUS authentication

Firewall

Stateful firewall

Configurable rules:

- Per interface
- Rule can apply to IPv4/ IPv6 L3 and L4 attributes

Firewall Rules: 500

VPN

IPSec (IPv4 , IPv6):

- Transport/Tunnel mode
- Multiple concurrent IPsec sessions
- Built-in SCEP client
- IPSec Authentication:
 - User-configurable
 - IKEv1, IKEv2
 - Certificates (SCEP)
 - PSK (Pre Shared Key)

- Encryption algorithms:
 - AES-CBC
 - AES-GCM 128/192/256
 - Blow-Fish
 - 3DES
 - CAST 128
 - Hash algorithms:
 - MD-5
 - SHA-1
 - SHA-256/384/512
 - AES-XCBC
 - NAT-T (NAT Traversal)
 - IPSec 1000 concurrent tunnels
- OpenVPN
L2TP

HIGH AVAILABILITY

State synchronization

Configuration synchronization

Common Address Redundancy Protocol

MANAGEMENT

Management Options

Password-protected access, authorization levels

WEB GUI (full configuration and monitoring)

Local terminal via front panel control port (limited configuration menus)

SSH (basic configuration menus)

RADview

Syslog

IPv4/IPv6 protocols

Control Port

Interface: V.24/RS-232 DCE

Connector: RJ-45

Format: Asynchronous

Data rate: 9.6, 19.2, or 115.2 kbps

SW Download

For factory use only

ROUTER

Dual stack IPv4/IPv6 (the interface can have both IPv4 and IPv6 addresses)

Static and dynamic routing

Single unicast router (single VRF)

DHCP:

- DHCP client and server
 - DHCP relay
- DNS Resolver

Router Interface

Resides on:

- Physical Ethernet port
- VLAN sub-interface
- Double VLAN sub-interface

Routing Protocols

OSPFv2 (IPv4)

OSPFv3 (IPv6)

Policy Based Routing

Based on Firewall rules

NAT

Static NAT (1:1)

NAPT

Port forwarding (hole punching)

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BRIDGE

IRB: Integrated Routing & Bridging Mode
(one of the bridge ports must have an IP address)

Multiple bridges

Port mirroring

Compliance

802.1D

Mode

VLAN-unaware

Loop avoidance

STP, RSTP

TIMING

NTP client and server

GENERAL

LED Indicators

Indications for power and link integrity and speed

Physical

Height: 44 mm (1.7 in)

Width: 440 mm (19 in)

Depth: 240 mm (9.45 in)

Weight: 3.5 kg (7.7 lb)

Power

100-240 VAC

Power consumption: 55W

Environment

Operating temperature:

0–50°C (32–122°F)

Relative humidity: 5–90%, non-condensing

Ordering

SGW/AC/G4C

Security Gateway with AC power supply, 4 GbE copper ports

SUPPLIED ACCESSORIES

AC power cable

CBL-SGW-RJ45-D9-F-6FT

Control cable

RM-34

Hardware kit for mounting one SecurityGateway unit in a 19-inch rack

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