

# 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.

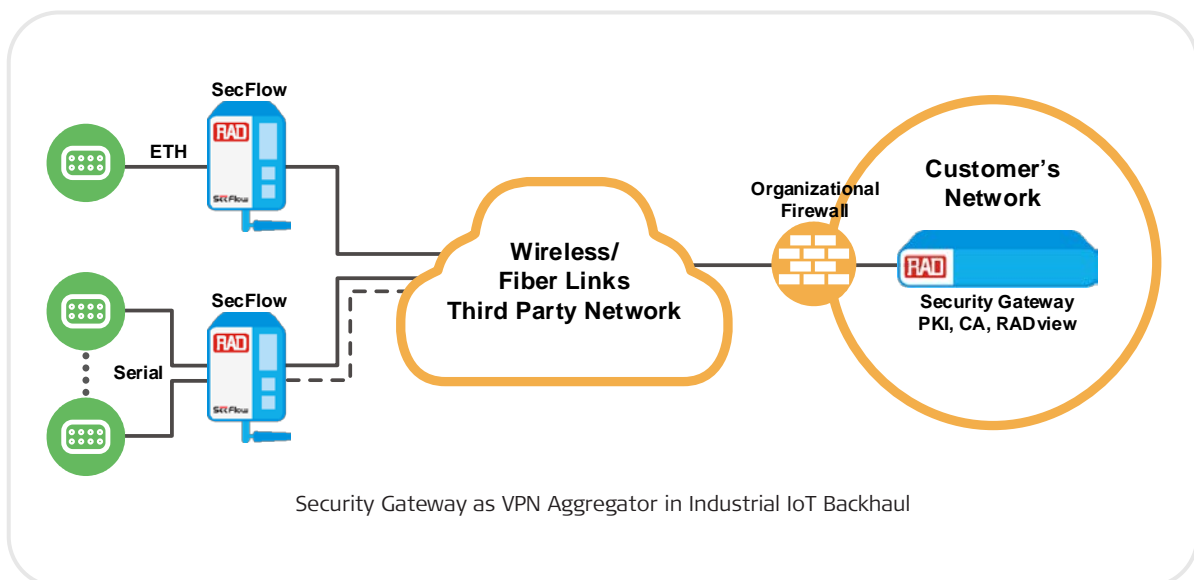
SecurityGateway is usually located behind the organizational firewall. It may also serve as WAN gateway, depending on the customer needs.

### 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, RFC-1213, IF-MIB, IP-FORWARD-MIB, SNMPv2-MiB, HOST-RESOURCES-MIB

#### 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)

# SecurityGateway

## VPN Aggregator, Router and Firewall

### 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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