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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 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).

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

RAD
Your Network's Edge®

SecurityGateway
VPN Aggregator, Router and Firewall

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

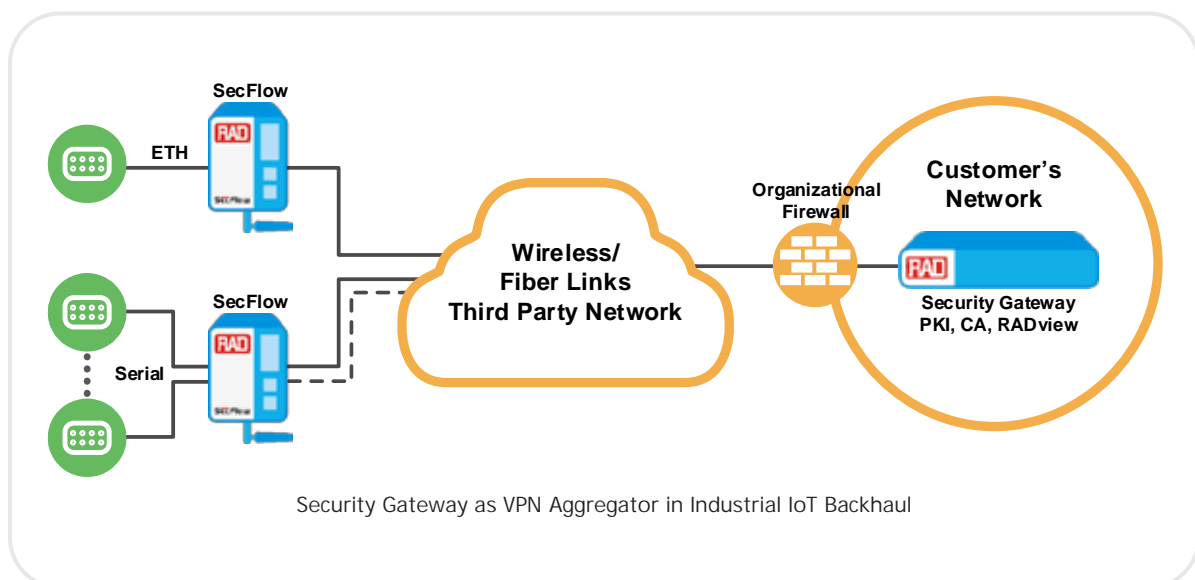**Control Port**
Interface: V.24/RS-232 DCE
Connector: RJ-45
Format: Asynchronous
Data rate: 9.6, 19.2, or 115.2 kbps

SW Download
For factory use only

Security Gateway as VPN Aggregator in Industrial IoT Backhaul

SecurityGateway
VPN Aggregator, Router and Firewall

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)

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

www.rad.com Order this publication by Catalog No. 000000
order from: Cutter Networks   ph: 727-398-5252   www.bestdatasource.com

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