

# RN5a

## Security & Networking Innovation

The RN5A is an innovative security and data networking product designed to leverage the existing network infrastructure in order to provide a very cost effective solution for mid/small offices or sections of larger offices.

The RN5A enables customers to segment a LAN into 5 Secure Zones – each Zone having stateful, fine-grained firewall policies between itself and each of the other Zones in both directions. Access to each Zone is granted only to users who have permission to access that specific Zone. Each Secure Zone can be dedicated to a department, application, server farm, or other LAN segment.

The RN5A overlays onto an existing network without requiring reconfiguration of existing network elements. Additional security layers such as per-user authentication, virtual zones, and policy-based security-on-demand are included.

In addition to segmented network security, the RN5A also provides Bandwidth Management for Quality of Service, Layer 2-4 Switching and full Accounting and Management.

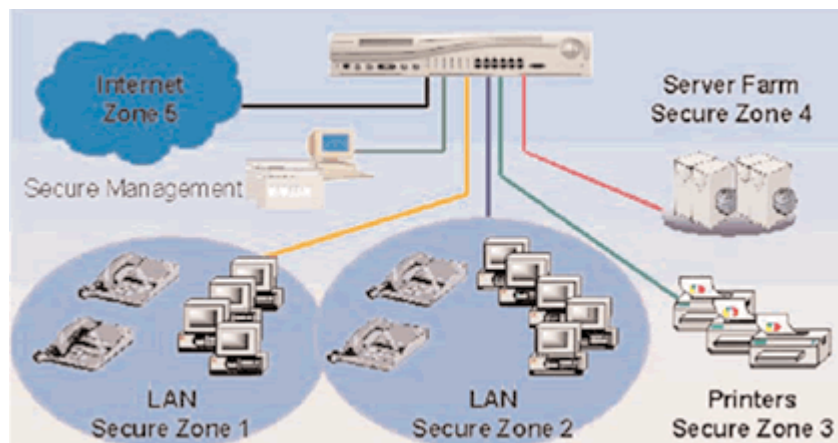
### Benefits:

- Replace many boxes with a single device
- Add multiple layers of security to an existing network
- 5 Secure Zones; Per-User Authentication
- Bandwidth Management for QoS/SLA
- LAN auto-discovery
- Advanced Layer 2/3/4 switching
- Accounting
- Redundancy
- Integrated Web based Management System
- SNMP V1 / V2 / V3 Compliant

### Applications:

- Mid/small office internal and external network security
- Security for specific areas in large offices
- Special security policies for Wireless LANs, conference rooms, and guests
- Insurance and regulatory requirements for gov't, financial services, education, healthcare
- Isolation of viruses, worms, etc.
- Voice-over-IP Quality of Service

### Application Example



## SPECIFICATIONS

### Security

- 5 security zones
- Per-user Authentication and Authorization
- Physical Zones or Virtual Zones
- Policy-driven security-on-demand
- Access Control Lists
- Stateful Firewall, Full NAT / Half NAT
- DoS Prevention
- Redirection to IDS
- 1024 ACL Rules
- Stateful firewall by TCP proxying
- Classification based on source IP, dest. IP, source port, dest. port, protocol, TCP flags, TCP options, ICMP Message types, TCP/FTP/UDP proxying
- Logging

### QoS / SLA Bandwidth Management

- Contracts
- Unique Split Subnets
- Multiple bandwidth levels
- Priority through TOS 7-tuple classification
- 1024 bandwidth contracts
- TOS marking for supporting QoS
- DiffServ compatible
- Traffic policing & guaranteed bandwidth per contract

### Switching/VLANs

- Wire-speed L2 switching
- Wire-speed L3 forwarding, static routing
- VLAN support
- Unique VLAN subnets splitting
- Multiple default gateways routing with dead gateway detection
- IEEE 802.3x, 802.1D, 802.1P, 802.1Q

### Auto Discovery

- Subnet identification
- Router discovery
- Host IP discovery
- Services discovery
- Network topology discovery
- Host topology discovery
- Host-to-IP determination
- Services discovery for telnet, DNS, ftp, HTTPs, SMTP, POP3

### Accounting

- Three definable accounting bands
- Instrumentation based on:
  - Packet Classification
  - 7-tuple classification
  - 1024 bandwidth contracts
  - Real-time counters (Tx, Rx, packets, bytes) - Packets dropped on purpose
  - Per-minute counters

### Technical Specifications

- Power input: AC 100-240 VAC, 50/60 Hz
- Power Consumption: 150W max (2.2A)
- Operating Temperature: 32-113°F (0 to 45° C )
- Operating Humidity: 5% to 95% non-condensing
- Dimensions (h, w, d): 2U 3.5" x 18" x 18"
- Weight: 11.3 lb (5.1 kg)
- Interfaces: 12+1 10/100 BaseT ports RJ-45 connectors and RS232 serial port DB9 connector