

# Security Appliance

## SecDNS

The SecDNS is a secure name server based upon the Internet-standard BIND server. SecDNS provide a robust and stable architecture on top of which an organization's naming architecture can be built. SecDNS can act as a primary or a secondary name server in a DMZ (demilitarized zone) or even in a totally insecure environment where full-featured DNS is dangerous.

SecDNS is designed for maximum network uptime and security by integrating all naming services over a Conostix standard component -SecCORE- which is composed of a secure Operating System, a local Firewall, a local IDS (Intrusion Detection System), MAC (Mandatory Access Control) and a High Availability module.

The system can be easily managed from a standard Web browser or via a SSH tunnel.

### Key features

- Forwarding of dynamic update requests
- Can handle signed zones and signed DNS requests
- Can answers DNS queries on IPv6 sockets
- DNS Protocol Enhancements (IXFR, DDNS, Notify, EDNS0)
- One server process can provide multiple "views" of the DNS namespace, e.g. an "inside" view to certain clients, and an "outside" view to others
- Cryptographic operations are based on the OpenSSL library
- Managed from a standard Web browser or from encrypted SSH tunnel

## System security

SecCORE is the standard component base for all security appliances offered by Conostix. As most important functionalities can be considered the secure hardened operating system (SecOS), high-availability (HA Mod) and packet filtering (SecFW).

SecOS is a hardened operating system derived from Linux. SecOS is optimized for packet forwarding and handling of these packets. SecOS adds a lot of standard security features like :

- Local IDS to detect file change, configuration change and malicious activities
- MAC (Mandatory access control) at the operating system level by standard (control of each file, process, tcp port...)
- Stripped operating system with no additional libraries and binaries.

The High-Availability module (HA Mod) provides network redundancy and fail-over for all services running on the appliance. The module uses High-Availability IP routing services. The HA Mod is compliant to VRRPv2 (RFC2338). It provides dynamic fail-over of IP addresses from one appliance to another in the event of failure.

SecFW is a standard firewall solution running on SecOS. Firewalling is running on every security appliance and not only on a central point. SecFW is a stateful inspection firewall and provide customize extensive logging.



## The appliance

### Dimension :

- Compact 1U rack-optimized
- 1.70"H x 24"L x 16.75"W

### Standard :

- Intel Quad core 2 processor
- 1024 DDR2 1
- 2 x 10/100/1000 BT network adapters
- 2 x 73 GB HDD SAS
- 24X DVD/RW
- Floppy drive
- SVGA, Serial RS232C port, PS/2 keyboard/mouse connectors

### Optional :

- Up to 4 GB SDRAM 133 Mhz
- Up to 2 Quad Ethernet 10/100/1000 BT cards
- RAID controller

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