

* Compared to previous model [DEC2680]

Gigabit Performance.

Gigabit embedded performance in a one height rack. Fully featured for SME's and branch offices.



3.300Mbps Throughput 275.000 Packets per Second



327Mbps Inline High Speed Intrusion Prevention & SSL Finger Printing



Fast Filtering 35.000 connections P/S Low Latency ~1.6mS (with CoDel & Traffic Shaper)



Hardware Assisted Encryption 600Mbps IPsec (AES256GCM16)



Guard Web Access
Filtering (SSL) Proxy
Captive Portal with Voucher
support



Up to 256GB SSD
Offering Sufficient Space for Logging & Reporting



System wide two-factor authentication.
Compatible with Google Authenticator.

Securing Networks™



Bundled with a free year OPNsense® Business Edition

- √ Commercial firmware repository
- √ Free GeoIP database
- √ Official OPNsense Open Virtualization Image
- √ Free professional plugins (OPNcentral, Proxy Access)

√ Free E-Book (English & German)

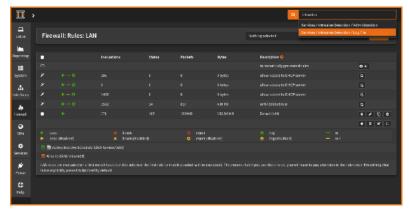


Securing Networks™



SOFTWARE

VERSATILE - OPEN SOURCE - FULLY FEATURED



OPNsense® Secure Your Network With Ease™

OPNsense is Deciso's fast growing open source firewall and security platform released under an Open Source Initiative approved license. Its rich feature set is combined with the benefits of open and verifiable sources.

All features can be used from within the easy to use graphical interface, equipped with a build-in search feature for quick navigation. Protecting your network has never been this easy with features such as; the integrated intrusion prevention system and two-factor authentication for safely connecting mobile users.



Businesses

Protect your business network and secure your connections.

From the stateful inspection firewall to the inline intrusion detection & prevention system everything is included for free. Use the traffic shaper to enhance network performance.



Schools

Limit and share available bandwidth evenly amongst students and utilize the category based web filtering to filter unwanted traffic such as adult content and malicious websites. It is easy to setup as no additional plugins nor packages are required.



Hotels

OPNsense offers a captive portal to control guest internet access for a limited duration. Vouchers can easily be created via the graphical user interface.



On the road

Even on the road OPNsense is a great asset to your business as it offers OpenVPN and IPSec VPN solution with road warrior support and two-factor authentication. The easy client exporter make configuring your OpenVPN SSL client setup a breeze.



Remote Offices / Branches & SOHO

The integrated site to site VPN (IPsec or SSL VPN) can be used to create a secure network connection to and from your remote offices. Enjoy the easy configuration and online searchable documentation with simple how-to type of articles to get you started, quickly. Pluggable support is offered for ZeroTier, Tinc as well as Wireguard.

Securing Networks™



SOFTWARE

FEATURE OVERVIEW

(For updated information on current release see ${\color{red} \underline{\textbf{docs.opnsense.com}}}$)

Stateful firewall

- Filter by
 - · Source
- Destination
- Protocol
- Port
- · OS (OSFP)
- Limit simultaneous connections on a per rule base
- Log matching traffic on a per rule bases
- Policy Based Routing
- Packet Normalisation
- Option to disable filter for pure router mode

Policy organization

- Alias Support
- · IP addresses
- · Port ranges
- · Domain names (FQDN)
- Interface Groups
- · Create security zones with equal rules
- Rule Category
- · Easy access rule sets

Granular control state table

- Adjustable state table size
- On a per rule bases
- · Limit simultaneous client connection
- · Limit states per host
- · Limit new connections per second
- · Define state timeout
- · Define state type
- State types
- Keep
- Sloppy
- Modulate
- Synproxy
- None
- Optimisation options
- Normal
- · High latency
- · Agressive
- Conservative

Authentication

- External Servers
- LDAP
- Radius
- Integrated Servers
- · Local User Manager
- · Vouchers / Tickets
- · FreeRadius (Plugin)

Authorization

- User Interface
- · Local User Manager

Accounting

- FreeRadius (Plugin & External)
- Vouchers / Tickets

2-Factor Authentication

- Supports TOTP
- Google Authenticator
- Supported services:
- · Captive Portal Proxy
- VPN

- · SSH / Console

Certificates

- Certificate Authority
- · Create or Import CA's
- · Create or Import Certificates
- Let's Encrypt (Plugin)
 - · Automated (Trusted) CA

802.1Q VLAN support

max 4096 VLAN's

Link Aggregation & Failover

- Failover
- Load Balance
- Round Robin
- Cisco Ether Channel (FEC)
- 802.3ad LACP

Other Interface types

- Bridged interfaces
- Generic Tunnel Interface (GIF)
- Generic Routing Encapsulation

Network Address Translation

- Port forwarding
- Outbound NAT
- NAT Reflection

Traffic Shaping

- Limit bandwidth
- Share bandwidth
- Prioritize traffic
- Rule based matching
 - Protocol
 - · Source
- Destination
- Port
- · Direction

IGMP Proxy

For multicast routing

Universal Plug & Play

Fully supported

Dynamic DNS

- Selectable form a list
- Custom
- RFC 2136 support

DNS Forwarder

- Host Overrides
- Domain Overrides

DNS Server

- Host Overrides
- A records
- · MX records
- Access Lists

DNS Filter

Supports OpenDNS

DHCP Server

- Relay Support
- BOOTP options

Multi WAN

- Load balancing
- Failover
- Aliases

Load Balancer

 Balance incoming traffic over multiple servers

Network Time Server

- Hardware devices
 - · GPS
 - · Pulse Per Second

Intrusion Detection & Prevention

Inline Prevention

- Integrated rulesets
- SSL Blacklists
- · Feodo Tracker
- · Emerging Threats ETOpen
- SSL Fingerprinting
- Auto rule update using configurable cron

Captive Portal

- Typical Applications
- Guest Network
- · Bring Your Own Device (BYOD)
- · Hotel & Camping Wifi Access
- Template Management
- · Multiple Zones Authenticators
- All available authenticators
- · None (Splash Screen Only)
- Voucher Manager · Multiple Voucher Databases
- · Export vouchers to CSV
- Timeouts & Welcome Back
- Bandwidth Management
- · Use Traffic Shaper
- Portal bypass
- · MAC and IP whitelisting
- Real Time Reporting
 - · Live top IP bandwidth usage
 - · Active Sessions
- · Time left

Rest API Virtual Private Networks

- IPsec
 - · Site to Site
- Road Warrior WireGuard (Plugin)
- Site to Site Road Warrior
- OpenVPN
 - · Site to Site
 - · Road Warrior · Easy client configuration
- exporter
- Tinc (Plugin)
- · Full mesh routing
- ZeroTier (Plugin)

· VPN, SDN & SD-WAN

- **High Availability**
- Automatic hardware failover
- Synchronized state table

Configuration synchronisation

- **Caching Proxy**
- Multi interface
- Transparent Mode
- Support SSL Bump
- SSL Domain only (easy filtering)
- Access Control Lists
- Blacklists Category Based Web-filter
- Traffic Management Auto sync for remote blacklists

ICAP (supports virus scan engine)

- Virus scanning (via plugins) External engine support (ICAP)
- OlamAV (Plugin / C-ICAP) **Reverse Proxy**
- HAProxy Load balancer (Plugin)

Online Identity Protection

Tor - Anonymity online (Plugin) **Backup & Restore**

History & Diff support

- File Backup
- Cloud Backup
- Git Backup

SNMP

Monitor & Traps

Diagnostics

- Aliases

- State Reset
- Wake on LAN
- DNS Lookup
- NDP Table
- Packet Capture
- Test Port

Trace route

Monitoring

Monit (Plugin)

- **Enhanced Reporting**
- · Fully Integrated
- · Graphical Representation
- · Clickable and Searchable
- CVS Exporter
- Exportable Traffic Graph
- · Live Traffic Monitoring **Network Monitoring**
- Version 5 & version 9
- **Firmware**
- · VMware tools (Plugin)
- · Xen Guest Utilities (Plugin)
- Reboot warning for base
- SSL Flavour selectable OpenSSL
- LibreSSL Selectable Package Mirror

Check installed packages for

known security vulnerabilities

Reinstall Single Package

Audit Feature

Plugin Support

ACL support **Online Documentation** ● Free & Searchable

Securing Networks™

- Filter reload status
- Firewall Info (pfInfo)
- Top Users (pfTop)
- Firewall Tables
- Bogons
- Current Open Sockets
- Show All States
- State Summary
- ARP Table
- Ping
- Zabbix Agent (Plugin)
- · Proactive System Monitoring
- Network Flow Analyzer 'Insight'
 - · Detailed Aggregation
- System Health · Round Robin Data
- · Selection & Zoom

Netflow Exporter

- · Local for 'Insight'
- Support Virtual Installs
- Easy Upgrade
- upgrades
- Lock Package (prevents upgrade)

REST API

Deciso Sales B.V. • +31 187 744 020 • sales@deciso.com • www.deciso.com



Preinstalled software OPNsense® License Open Source +1 year free Business Edition Hardware Specifications Edition CDE RJ45 Ports [10/100/1000Mbps] 4 USB Ports 1 Console Port 1 Internal Storage 256GB Solid State Flash Memory 8GB DDR3 CPU Cores 4 (1.6.0hz) Virtual Interfaces (802.1q VLANS)1 300Mpbs Firewall Throughput 300Mpbs Firewall Protest be rescond 35Kpps Firewall Port to Port Throughput 90Mpbs Firewall Letterny (average) 200us Firewall Policies (Recommended Maximum)1 100000 Pises VPN Throughput (AES256GCM16) 600Mbps High Availability with State Synchronisation Requires Two Integral Width x Length (inches) 1.73 (1U)x 19 x 0.03 Form Eactor 19° Rack mountable Weight (appliance only) 2.1Kg Form Factor 19° Rack mountable Weight (appliance only) 2.1Kg Form Factor 100-240VAC, 50-60Hz Power Consum		
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Regulatory Compliance	Storage Temperature	-20 to +70°C
	Humidity	10-90% non-condensing
	Regulatory Compliance	
FCC part 15 Class A, CE, Rohs		FCC part 15 Class A, CE, Rohs

¹ The user interface is designed for normal business usage, large rulesets, high number of users or interface assignments may be less practical.

All measurements are based upon TCP traffic unless stated otherwise. Maximum PPS is a peak performance, measured using 100 byte packets. Firewall Port to Port package per seconds is the peak performance when using 1500 byte sized packages. Total Firewall Throughput is calculated by multiplying the maximum packets per second with a standard package size of 1500bytes. IPS performance is measured using a http simulation with random sized small (400-800 bytes) send packages and 1K-8K response packages with 150 simultaneous emulated users and 21000 rules enabled. SSL VPN is measured using AES256GCM16+SHA512 and total throughput is calculated based on system load. Concurrent sessions are based upon memory available, where one state consumes 1KB of memory and 1GB of memory is reserved for system tasks. Latency is measured using netperf.

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