Endian UTM Software

Network Security for Small to Large Businesses

- **Build Your Own:** Runs on virtually any hardware platform
- **Complete Security:** Protect your critical business resources
- **Scalability:** Delivers a highly scalable solution to both small- and mid-size companies
Turn any PC into a Unified Threat Management Appliance

Endian UTM Software Appliance offers the same technology that resides in the Endian Unified Threat Management (UTM) hardware appliances, making it possible to turn any PC into a full featured security appliance. Unleash the power of Endian UTM using your preferred hardware to enable comprehensive security for your whole network infrastructure. Integrated security services such as stateful inspection firewall, VPN, gateway antivirus, anti-spam, Web security, and e-mail content filtering offer granular protection in a single system, reducing management time and costs. Endian designed UTM Software Appliance to meet the needs of every business from small to large, providing maximum protection for your network.

**Powered Network Security:** Stateful inspection firewall and advanced networking features to protect your network.

**Quality of Service and Bandwidth Management:** to guarantee the best quality for VoIP calls and critical services in your network.

**Intrusion Prevention System:** powered by Snort. Packets that match any of the configured rules can be allowed, blocked or logged.

**Hotspot:** Enable secure Internet access in public areas for wireless and wired networks.

**VPN:** Secure communication with branch/remote offices and teleworkers. Work anywhere, anytime.

**Mail Security:** Gateway anti-spam, anti-virus to protect your day-to-day e-mail communication.

**High Availability:** Keep your network up and running even after an Internet connection or hardware failure.

**Endian Network:** Centralize the configuration and update management of multiple appliances.

**Web Security:** Anti-virus and content filtering for secure Internet access

**Event handling and notification:** on predefined events e-mail notifications are automatically sent to the system administrator.
Endian UTM Features

Network Security
- Stateful packet firewall
- Application control (including Facebook, Twitter, Skype, WhatsApp and more)
- Demilitarized zone (DMZ)
- Intrusion detection and prevention
- Multiple public IP addresses
- Multiple WAN
- Quality of service and bandwidth management
- SNMP support
- VoIP/SIP support
- SYN/ICMP flood protection
- VLAN support (IEEE 802.1Q trunking)
- DNS proxy/routing
- Anti-spyware
- Phishing protection

Web Security
- HTTP & FTP proxies
- HTTPS filtering
- Transparent proxy support
- URL blacklist
- Authentication: Local, RADIUS, LDAP, Active Directory
- NTLMD single sign-on
- Group-based and user-based web content filter
- Time based access control with multiple time intervals
- Panda cloud-based anti-virus
- Cyren URL filter
- SafeSearch enforcement

Mail Security
- SMTP & POP3 proxies
- Anti-spy with bayes, pattern and SPF
- Heuristics, black- and whitelists support
- Anti-virus
- Transparent proxy support
- Email quarantine management
- Spam auto-learning
- Transparent mail forwarding (BCC)
- Greylisting
- Cyren anti-spam
- Panda cloud-based anti-virus

WAN Failover
- Automatic WAN uplink failover
- Monitoring of WAN uplinks
- Uplink types: Ethernet (static/DHCP), PPPoE, PPTP
- Support for UMTS/GPRS/3G USB dongles

User Authentication
- Active Directory / NTLM
- LDAP
- RADIUS
- Local

Virtual Private Networking
- IPSec
  - Encryption: Null, 3DES, CAST-128, AES 128/192/256-bit,
  - Blowfish 128/192/256-bit,
  - Twofish 128/192/256-bit,
  - Serpent 128/192/256-bit,
  - Camellia 128/192/256-bit
  - Hash algorithms: MD5, SHA1, SHA2-256/384/512-bit, AESXDC
  - Diffie Hellman modes: 1, 2, 5, 14, 15, 16, 17, 18, 22, 23, 24
  - Authentication: pre-shared key (PSK), RSA keys
  - X.509 certificates
  - IKEv1, IKEv2
  - Dead Peer Detection (DPD)
  - NAT traversal
  - Compression
  - Perfect Forward Secrecy (PFS)
  - VPN Site-to-Site
  - VPN Client-to-Site (roadwarrior)
  - L2TP user authentication
  - XAUTH user authentication
- OpenVPN
  - Encryption: DES, 3DES, AES 128/192/256-bit, CAST5, Blowfish
  - Authentication: pre-shared key, X.509 certificates
  - Support for VPN over HTTP Proxy
  - PPTP passsthrough
  - VPN client-to-site (roadwarrior)
  - VPN client for Microsoft Windows
  - and Apple OS X
  - Possibility of multiple logins per user
  - VPN failover
  - Multiple server support
  - Support for mobile devices (Android, iOS)

BYOD / Hotspot*
- Configurable captive portal
- Use your website as portal (SurfNow Button)
- Free access to allowed sites (walled garden)
- Wired / wireless support
- Integrated RADIUS service
- Connection logging
- Bandwidth limiting based on user, ticket or global settings
- Social login (Facebook, Google)
- Social Enabler (sharing on social networks)
- MAC-address based user accounts
- Configurable multiple logins per user
- User accounts import/export via CSV
- User password recovery
- Automatic client network configuration (support for DHCP and static IP)
- Fully integrated accounting
- Generic JSON API for external accounting and third party integration
- Instant LAN ticket shop (Smart-Connect)
- Single-click ticket generation (Quick ticket)
- SMS/e-mail user validation and ticketing
- Pre-/postpaid and free tickets
- Time-/traffic-based tickets
- Configurable ticket validity
- Terms of Service confirmation
- MAC address tracking for free hotspots
- Cyclic/recurring tickets (daily, weekly, monthly, yearly)
- Remember user after first authentication (SmartLogin)
- Multi-location setup through master/satellite configuration
- External authentication server (Local, LDAP, Active Directory, RADIUS)

Network Address Translation
- Destination NAT
- Incoming routed traffic
- One-to-one NAT
- Source NAT (SNAT)
- IPSec NAT traversal

Routing
- Static routes
- Source-based routing
- Destination-based routing
- Policy-based routing (based on interface, MAC address, protocol or port)

Bridging
- Firewall stealth mode
- OSI layer 2 firewall functionality
- Spanning tree
- Unlimited interfaces per bridge

High Availability
- Hot standby (active/passive)
- Node data/configuration synchronization (not for BYOD/Hotspot)

Event Management
- More Than 10 Individually Configurable Events
- Email Notifications
- SMS Notifications
- Powerful Python Scripting Engine

Logging and Reporting
- Reporting dashboard
- Detailed system, web, email, attack and virus reports
- Live network traffic monitoring (powered by ntopng)
- Live log viewer
- Detailed user-based web access report (not in Mini 10 and Mini 10 WiFi)
- Network/system/performance statistics
- Rule-based logging settings (firewall rules)
- Syslog: local or remote
- OpenTSA trusted timestamping

Extra Services
- NTP (Network Time Protocol)
- DHCP server
- SNMP server
- Dynamic DNS

Management / GUI
- Centralized management through Endian Network (SSL)
- Easy Web-Based Administration (SSL)
- Multi-language web interface (English, Italian, German, Japanese, Spanish, Portuguese, Chinese, Russian, Turkish)
- Secure remote SSH/SCP access
- Serial console

Updates and Backups
- Centralized updates through Endian Network
- Scheduled automatic backups
- Encrypted backups via email
- Instant recovery / Backup to USB stick (Endian Recovery Key)

* Not in UTM Software 10, UTM Virtual 10, UTM Mini 10, UTM Mini 10 WiFi
** Master functionality not in UTM Mini 25, UTM Mini 25 WiFi and UTM Mercury 50
# System Requirements/Hardware Support

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Intel x86_64 compatible / 1GHz minimum (dual-core 2 GHz recommended)</td>
</tr>
<tr>
<td>Multi-Processor</td>
<td>Symmetric multi-Processor (SMP) support included</td>
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<tr>
<td>RAM</td>
<td>1 GB minimum (2 GB recommended)</td>
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<tr>
<td>Disk</td>
<td>SCSI, SATA, SAS or IDE disk is required (8GB minimum 20GB recommended)</td>
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<tr>
<td>Software RAID</td>
<td>For software RAID1 (mirroring) two disks of the same type (the capacity needn’t be the same) are required</td>
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<tr>
<td>CDROM</td>
<td>An IDE, SCSI or USB CDROM drive is required for installation (not required after installation)</td>
</tr>
<tr>
<td>Network Cards</td>
<td>Most common Network Interface Cards are supported including Gigabit and fiber NICs</td>
</tr>
<tr>
<td>Monitor/ Keyboard</td>
<td>Only required for the installation but not for configuration and use</td>
</tr>
<tr>
<td>Operating System</td>
<td>Endian Firewall includes a Hardened Linux Based Operating System</td>
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