

Unified threat management

Unified threat management (UTM) is an approach to [information security](#) where a single [hardware](#) or [software](#) installation provides multiple security functions. This contrasts with the traditional method of having point solutions for each security function.^[1] UTM simplifies [information-security management](#) by providing a single management and reporting point for the security administrator rather than managing multiple products from different vendors.^{[2][3]} UTM appliances have been gaining popularity since 2009, partly because the all-in-one approach simplifies installation, configuration and maintenance.^[4] Such a setup saves time, money and people when compared to the management of multiple security systems. Instead of having several single-function appliances, all needing individual familiarity, attention and support, [network administrators](#) can centrally administer their security defenses from one computer. Some of the prominent UTM brands are [Cisco](#), [Fortinet](#), [Sophos](#), [Netgear](#), [FortiGate](#), [Huawei](#), [WiJungle](#), [SonicWall](#) and [Check Point](#).^[5] UTM's are now typically called [next-generation firewalls](#).

Features

UTMs at the minimum should have some converged security features like

- [Network firewall](#)
- [Intrusion detection](#) service (IDS)

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- Intrusion prevention service (IPS)

Some of the other features commonly found in UTM's are:

- Gateway [anti-virus](#)
- Application layer (Layer 7) firewall and control
- [Deep packet inspection](#)
- Web [proxy](#) and content filtering
- [Email filtering](#) for [spam](#) and [phishing](#) attacks
- [Data loss prevention](#) (DLP)
- [Security information and event management](#) (SIEM)
- Virtual private network ([VPN](#))
- [Network access control](#)
- Network [tarpit](#)
- Additional security services against [Denial of Services](#) (DoS), [Distributed Denial of service](#) (DDoS), [Zero day](#), [Spyware](#) protection

Disadvantages

Although an UTM offers ease of management from a single device, it also introduces a [single point of failure](#) within the IT infrastructure. Additionally, the approach of a UTM may go against one of the basic information assurance / security approaches of [defense in depth](#), as a UTM would replace multiple security products, and compromise at the UTM layer will break the entire defense-in-depth approach.^[6]

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