



PROTELION
GOVERNMENT SOLUTIONS



PROTELION DATA PROTECTION

The Solution You Need
for Enhanced Security

DATA PROTECTION

Protelion Data Protection is a product line designed to meet data security challenges in communication over public networks and dedicated data exchange channels by deploying a virtual private network (VPN), which supports centralized management, establishing systems for centralized control, audit and monitoring of the data protection tools in the distributed networks.

PROTELION SECURITY TECHNOLOGY ADVANTAGES

Protelion Data Protection, developed in line with internationally recognized standards, enables secure communication scenarios (site-to-site, client-to-site, client-to-client) and flexible topologies (peer-to-peer, hub-and-spoke, full mesh), regardless of transmission channel, network structure, or connection type.

Protelion Security Technology integrates seamlessly into corporate networks of any size or topology and enforces consistent access control across all IT services. It supports both dynamic and static NAT/PAT, allowing different network services to be encapsulated without affecting their functionality.

With built-in NAT-Traversal, Protelion ensures reliable connectivity even in NAT-based environments. Its point-to-point communication capability secures data transmission without overloading central servers, while still enabling centralized management and transparent support for all IT services, including client-to-client communication.

The Protelion product line is mature and optimized to reduce implementation and ownership costs. This allows common secure-communication scenarios to be deployed without modifying client or server configurations. Designed for the demands of mobile communication and industrial automation, Protelion solutions provide strong protection without compromising application performance or operational workflows.

PROTELION AR

Security gateway for data protection.

The Protelion AR is our encryption hardware appliance to safeguard sensitive data while it traverses public and unsecured networks.

Due to its uniquely features (cryptographic data protection, firewall, integrated network services), the Protelion AR constitutes a versatile solution for protecting corporate networks against unauthorized access to resources when transmitting data over public channels.

ADVANTAGES

- Failover cluster
- Centralized and remote management (SSH, WebUI)
- Unattended operation 24x7
- Support of modern, multiservice networks and full compatibility with:
 - DHCP, WINS, and DNS services
 - Dynamic address translation (NAT, PAT)
 - Multimedia protocols (SIP, H.323, SCCP, and others)

USE CASES

- Secure communication between branches of an organization (site-to-site and multi site-to-site)
- Protecting backbone links between data centers
- Network protection, also with wireless channels
- Protected access to corporate network for remote and mobile users
- Protecting multiservice networks (including IP telephony and videoconferencing)
- Differentiated data access in local networks, splitting local networks (for example, creating a DMZ)
- Communicating with Protelion networks of other organizations

FEATURES

VPN

- Network-layer gateway (L3)
- Data-link layer gateway (L2 over IP VPN)
- IP address server
- VPN router
- Traffic masking due to encapsulating the traffic to UDP and TCP

FIREWALL

- Stateful firewall
- Separate traffic filtering rules for unencrypted and encrypted IP traffic
- NAT / PAT
- Anti-spoofing
- Proxy server and third-party antivirus

NETWORK FUNCTIONS

- Static routing
- Dynamic routing
- VLAN (dot1q) support
- Channel bonding (EtherChannel, LACP)
- Traffic classification and prioritization (QoS, ToS, DiffServ)

INTEGRATED SERVICES

- DNS server
- NTP server
- DHCP server
- DHCP-Relay
- UPS support
- Failover cluster

Hardware specifications



Available model	SGA10	AR100	AR5000
Form factor	802.Mini-PC 2.4GHz/5GHz, Bluetooth 5.0	Desktop	1 RU
Dimensions (H×W×D)	95 x 68 x 30 mm	170 × 41,5 × 138 mm	430 × 44 × 435 mm
Weight	260 g	0.5 kg (without power supply)	8 kg
Power supply configuration	External power supply (5V/3A), USB-C	External, +24V	Dual 300W AC
AC input voltage	5 - 12V DC (USB-C PD)	100 to 240V AC	100 to 240V AC
Power Redundancy	No	N/A	1+1 Hot Swap

Performance

VPN throughput	25 Mbps	175 Mbps	Up to 6.0 Gbps / 10 Gbps*
L2 over IP VPN throughput	Not available	Up to 175 Mbps	Up to 6.0 Gbps / 10 Gbps*
Number of connected available Protelion devices (tunnels)	500	2 ¹⁶ (65536)	2 ¹⁶ (65536)
Recommended number of VPN clients (depending on available bandwidth)	Not available	Up to 10	Up to 6,000

Firewall

Firewall throughput (real world HTTP)	200 Mbps	360 Mbps	Up to 9.3 Gbps / 13 Mbps*
Max number of concurrent connections	150,000	150,000	6,500,000

Network performance

Network interfaces (copper)	1 x 1G RJ-45, 2 x 2.5G RJ-45	4× Rj45, 10/100/1000 Mbps	4× RJ45 1 Gbps
Network interfaces (optical)	No	1× SFP 1 Gbps	8× SFP+ 10 Gbps
Transceiver (included)	No	No	2× Avago AFBR-709SMZ
Wireless interfaces	Optional (USB 3G/LTE modem, M.2 Wi-Fi module)	Optional: Internet WLAN or 3/4G Module	No

Availability and reliability

Failover cluster	No	Yes	Yes
Unattended operation 24 × 7	Yes	Yes	Yes
Power management with an uninterruptible power supply	No	Yes	Yes
MTBF (Mean time between failures)	30,000 hours	30,000 hours	50,000 hours

PROTELION SMC

Centralized management platform for controlling, monitoring, and maintaining Protelion security systems and operations.

DESCRIPTION

Protelion SMC is a security management center to manage Protelion products in an all-in-one scalable device. Delivering simplicity and consolidation, Protelion SMC aims to relieve the IT administrator's daily effort and increases convenience for service providers. Protelion SMC facilitates Protelion security products deployment, management, key generation and delivery and license management. Protelion SMC provides easy-to-use tools for multiple host monitoring and asset management and automates routine tasks, such as software updates and security policies configuration.

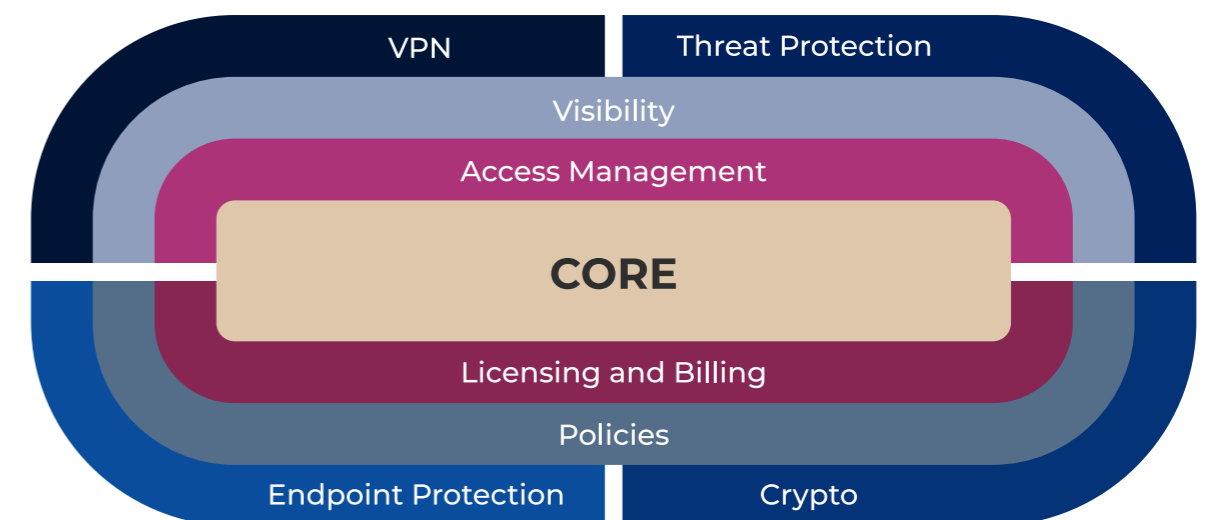
HOW IT WORKS

Protelion SMC is a modular platform with a management core providing a consolidated information area and interoperability for functional modules.

PERFORMANCE

Protelion SMC features are

- Maintaining Protelion VPN topology, hosts, users and connections
- Generating and managing secret keys
- Automated Protelion software update
- Easy security policies management
- Network monitoring and critical events alerting
- Protelion products license management
- Billing reports creation



PROTELION SMC SUPPORTS THE FOLLOWING MODULES

Protelion SMC – VPN Module

- Protelion virtual private network structure creation and management for hosts, users and links
- Establishing corporate connections with a secure VPN channel between networks
- Establishing secure access to Protelion VPN objects for trusted organizations
- Secret key generation and distribution

Protelion SMC – Rollout Center Module

- Quick deployment of Protelion VPN devices in large distributed networks including mobile devices
- Activation of VPN Clients via email and SMS in a Protelion protected VPN network

Protelion SMC – Network Visibility Module

- Protelion network monitoring
- Protelion network device activity details and summary
- Protelion network important events alerts

Protelion SMC – Policy Manager Module

- Creating security policy rules
- Applying security policies either to specific hosts, host groups or entire network
- Controlling policies distribution and applying to Protelion VPN hosts

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Centralized visibility and control are essential for maintaining consistent and effective security operations.

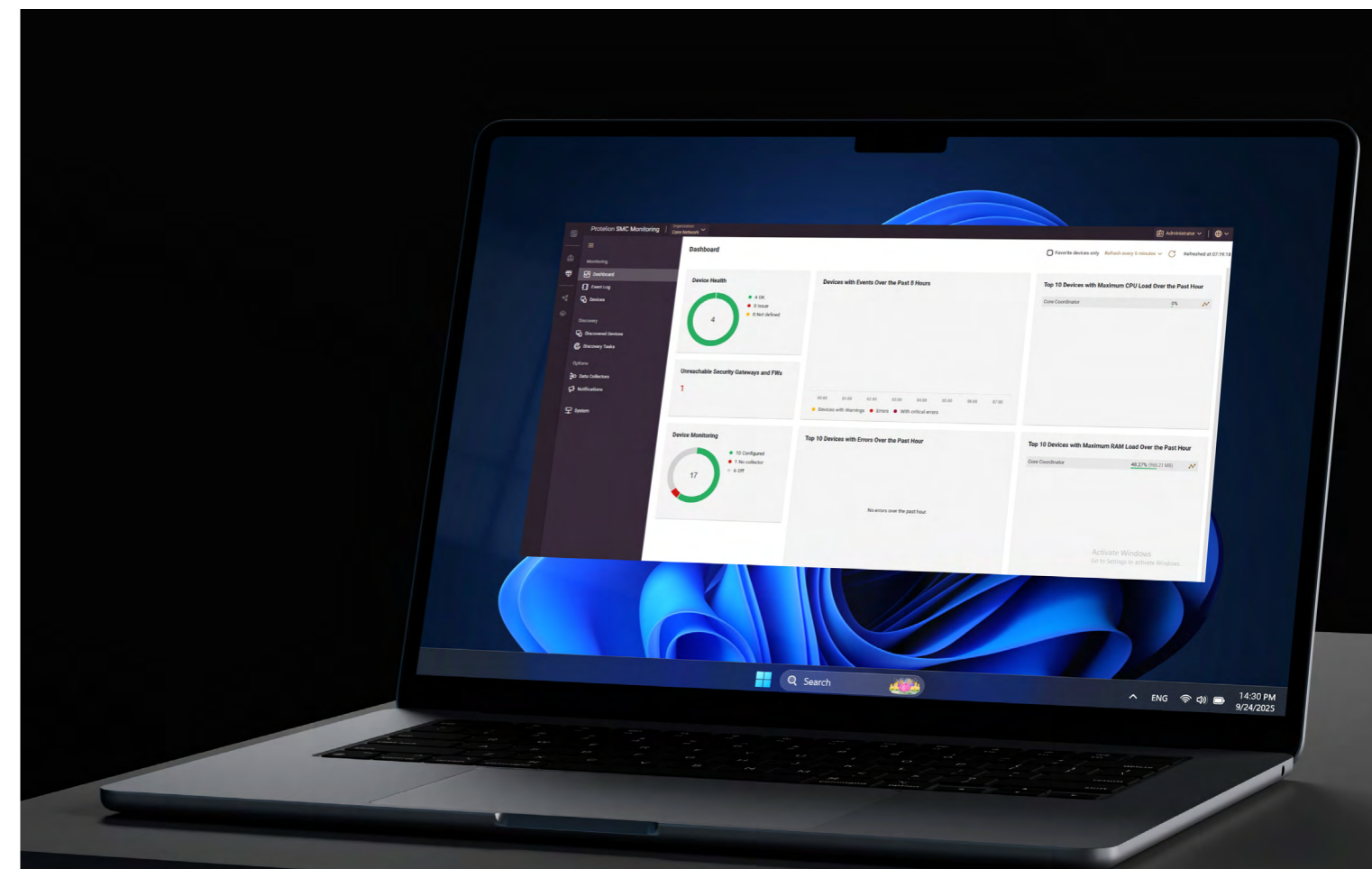
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USE CASES

- Ready-to-use security service provider platform
- Protelion security infrastructure management platform

ADVANTAGES

- User-friendly administrative web console
- Multitenant SaaS ready platform
- Consolidated information area with advanced role access management
- Centralized authentication service
- Unified policy management
- Centralized asset discovery and monitoring
- Easy-to-use billing and license management systems
- User account imports from the Microsoft Active Directory and external sources



PROTELION AR VPN

Secure VPN client enabling protected access to corporate resources over untrusted networks, ensuring encrypted communication and controlled connectivity for mobile and desktop environments.

DESCRIPTION

Protelion AR VPN is a VPN Client Application for State Authorities and affiliated Enterprises to protect Top Secret information transferred over unsecure channels from mobile devices and desktop computers

The Protelion AR VPN Client solution protects a device against internal and external attacks, and provides secure access to corporate resources over the Internet.

FEATURES

- With this product, you can ensure uniform and highly secure access to the resources of corporate information systems from anywhere in the world using any TCP / IP networks
- Due to its traffic encryption, the product can protect voice traffic, video communication, VoIP connections, mail exchange, and other services in TCP / IP networks in real time
- The Protelion Security Technology behind the product allows you to operate geographically distributed information systems via a single control center and distribute encryption keys and software over a secure channel
- The product architecture can ensure concurrent work with resources of different corporate network segments

SPECIAL FEATURES

- AR VPN Client: point-to-point encryption and MAC protection of IP packets using the AES algorithm with symmetric 256-bit keys

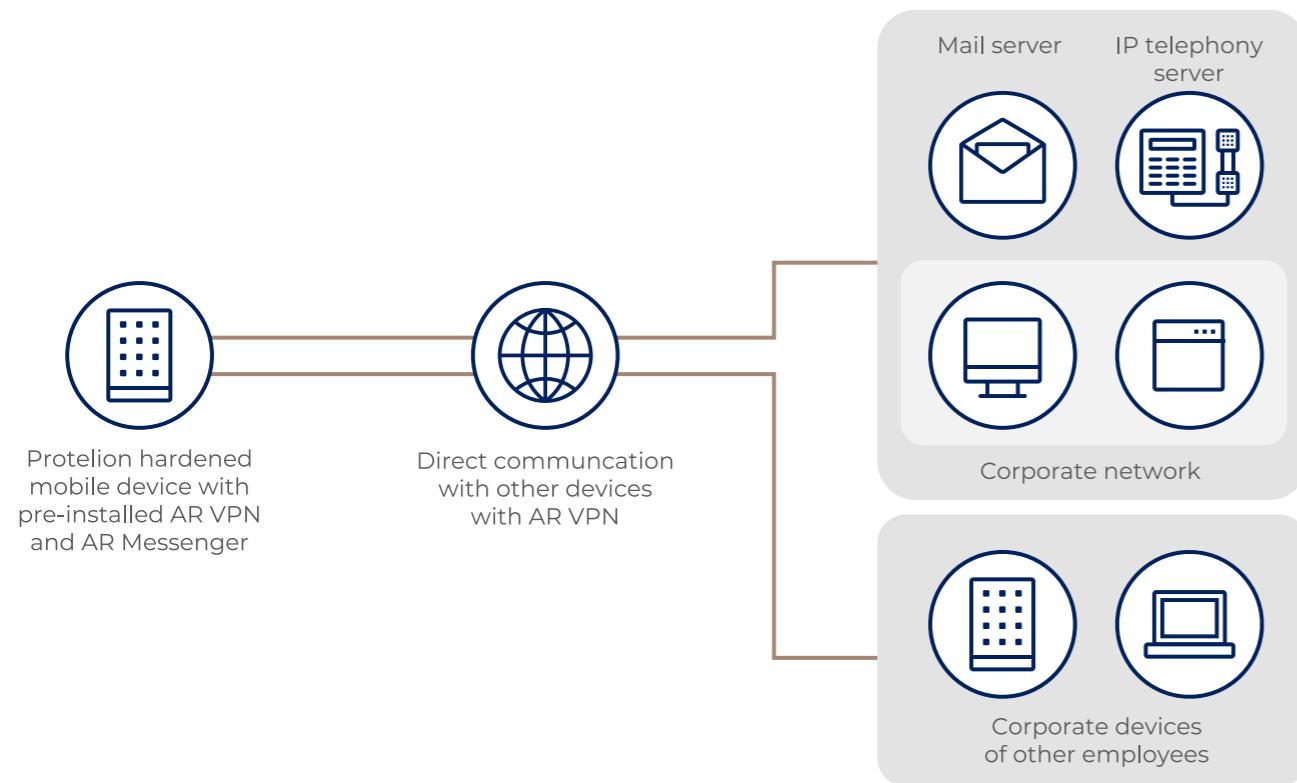
USE CASES, MOBILE AND DESKTOP PROTECTION

Supported platforms

Android, Windows, iOS, macOS and Linux

Supported technology

GSM, LTE, Wi-Fi



USE CASES

- Secure remote client-to-site and client-to-client connections to corporate resources and services. The client-to-client (point-to-point) connection mode provides protection not only when data is exchanged via public communication channels but also when the Protelion AR VPN Client is used in a corporate network, thus protecting the confidential information against internal intruders as well.
- In addition to the protection scenarios, you can add optional secure communication tools, such as a secure messenger (Protelion AR Messenger), to your existing protected Protelion network.
- Protelion AR VPN Client does work as a virtual appliance thus allowing you to use Protelion protection tools in VDI (Virtual Desktop Infrastructure) environments.
- Protelion AR VPN Client can be used as an overlay security tool to protect your existing mail, document exchange, and video conferencing systems. Without changing of your application software.
- With Protelion AR VPN Client, you can block direct Internet access on your device so it is able to access the Internet only through the corporate traffic cleaning zone, which uses a set of security tools, such as proxy servers, DLP systems and content filtering systems. This approach ensures multilevel device protection and applies corporate data security measures even to devices that physically leave the secure perimeter.



