AhnLab EPS

Optimal Protection for OT Endpoints

Ensure system availability by leveraging lightweight agent
Prevent malware infiltration through the Lock Mode

Brief

AhnLab EPS (Endpoint Protection System) is an optimized security solution for OT endpoints. It only allows the execution of authorized applications and predefined processes. AhnLab EPS secures the system stability of various OT systems, such as ICS (Industrial Control System), POS (Point of Sales) terminals, KIOSKs, and ATMs.

- Ensures Stability
- Minimizes Downtime
- Minimizes System Resource Usage
- Enables Application Control
- Supports Various Environments

Highlights

Allowlist-based Program Control

- Creates the allowlist and allows authorized programs only
- Enables effective security operation with 3-level Lock Modes
- Supports installation and update of critical programs in the Lock Mode by using the Trusted Updater

Various Prevention Policies

- Creates the blocklist to prevent the execution of unwanted programs
- Prevents critical configuration changes of programs
- Supports network attack prevention and host-based firewall
- Controls devices across USB, CD/DVD and Bluetooth
- Delivers cloud-based inspection of large files via ASD (AhnLab Smart Defense)

Sophisticated Client Operations

- Searches devices without EPS clients
- Provides a detailed view of device patch status (Windows KB, Linux RPM)
- Supports integrity monitoring of critical files

Unified Management and Enhanced Operational Efficiency

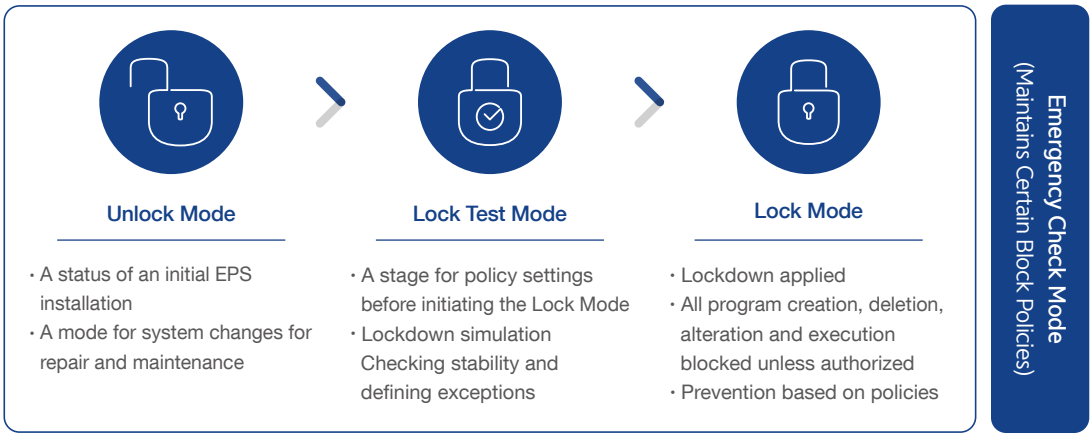
- Delivers unified monitoring on the dashboard
- Provides central management of EPS clients across various operating systems
- Supports remote control of clients for elevated management flexibility

Ensuring System Stability

- Keeps the agent light by conducting heavy work on the server
- Minimizes the system resource consumption to secure availability

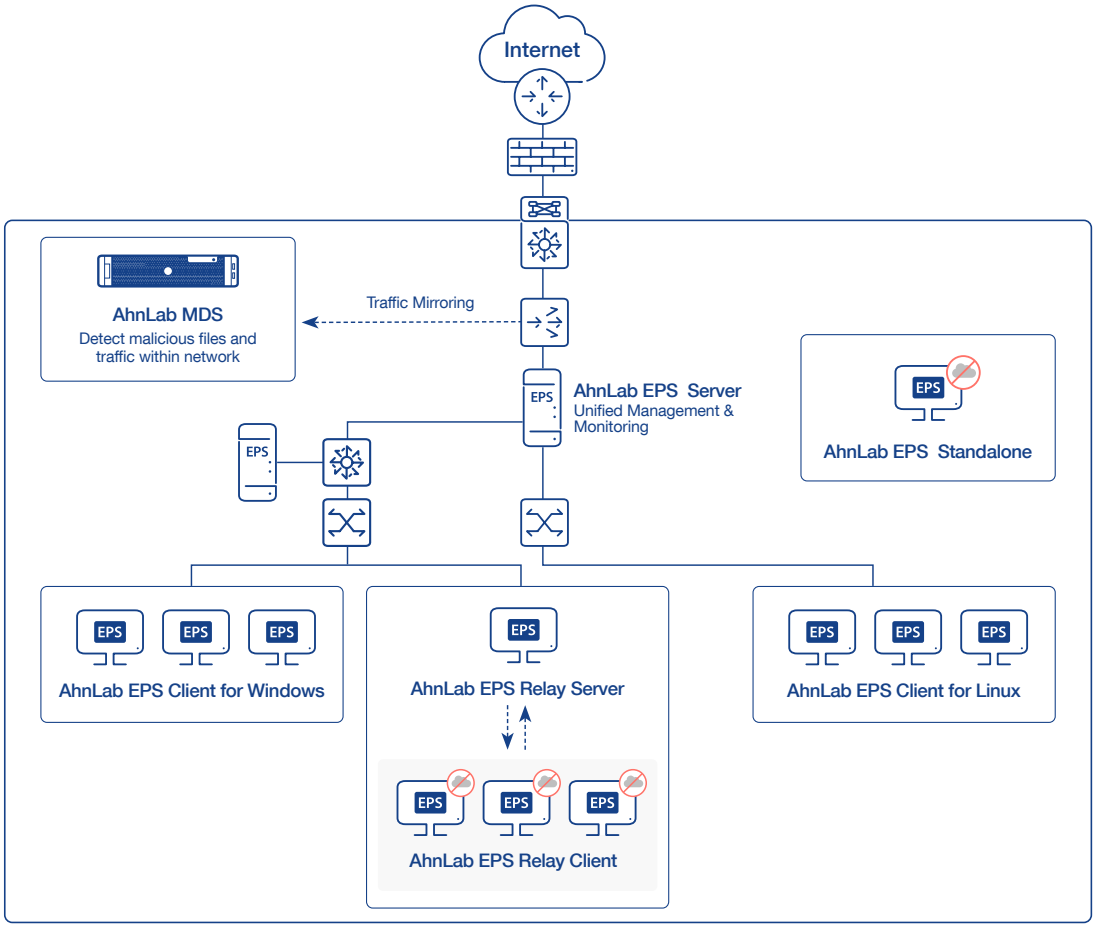
3-Level Lock Mode

AhnLab EPS provides “3-Level Lock Modes” to ensure efficient and stable operation of OT endpoints. AhnLab EPS can effectively manage security policies and optimize system settings while ensuring system stability via Unlock Mode, Lock Test Mode and Lock Mode.



Deployment

AhnLab EPS delivers two deployment types – “Server-Client Type (Managed Type)” and “Standalone Type” to expand customers’ flexibility.



1. Server-Client Type (Managed Type)

This method delivers a lightweight agent (EPS Client) installed on the system and a server (EPS Server) for centralized monitoring and policy management to ensure operational stability.

As for the air-gapped environment where clients cannot communicate with the server, customers can harness relay servers and clients to enable central device security management.

		Key Features
Server	AhnLab EPS Server	· Central management and monitoring of clients, relay servers and relay clients
Client	AhnLab EPS Client for Windows	· Windows-based device protection · Lockdown, device control, system change prevention, firewall, network attack detection, malware inspection
	AhnLab EPS Client for Linux	· Linux-based device protection · Lockdown, system change prevention, malware inspection
Relay Server	AhnLab EPS Relay Server for Windows	· Relay communication between EPS Relay Client and EPS Server · Lockdown, device control, system change prevention, firewall, network attack detection, malware inspection
Relay Client	AhnLab EPS Relay Client for Windows	· Protecting air-gapped devices unable to communicate with the EPS Server · Lockdown, device control, system change prevention, firewall, network attack detection

2. Standalone Type

We offer "Standalone" deployment with the standalone agent to protect offline devices that only use specific programs.

	Key Features
AhnLab EPS Standalone	· Windows OS-based offline terminal protection · Setting management policy, Log saving and searching · Lockdown, media control

Unified CPS Protection

There are increased attacks against OT environments as more OT systems become intertwined with the IT network. Organizations should consider a unified security strategy across IT and OT security to protect their businesses. This is why the concept of "CPS (Cyber-Physical System) protection" has emerged. AhnLab EPS seamlessly integrates with security modules of "AhnLab CPS PLUS", our CPS protection platform to enhance security and operational efficiency.

AhnLab Xcanner	**Portable Anti-Malware** · Scans and remediates compromised devices · Remote execution via AhnLab EPS Server
AhnLab MDS	**Network Sandboxing** · Conducts dynamic analysis into APTs and novel malware · Sends analysis results to AhnLab EPS Server
AhnLab XTD	**OT Network Visibility and Threat Detection** · IT/OT protocol analysis, asset identification, malware and vulnerability detection · Consolidates OT endpoint asset visibility by integrating with AhnLab EPS · Scans suspicious systems by remotely executing AhnLab Xcanner
AhnLab ICM	**Central Monitoring and Management of Cyber-Physical Systems** · Delivers unified visibility and management by ingesting data from integrated security modules · Manages AhnLab EPS Server deployed across multiple sites

System Requirements

1. Server-Client Type (Managed Type)

AhnLab EPS Server

		Requirements
Hardware	CPU	Intel®Xeon®Processor E5 Family (8 core, 3GHz, 8MB cache or more)
	Memory	16GB
	HDD	OS: 300GB x 2 (RAID 1) or more DATA: 1TB or more (RAID type recommended)
OS		RHEL 9.2 (64 bit)
VM		VMware, AWS
Console Browser		Google Chrome 96 or higher version Microsoft Edge *Internet Explorer only for downloading the client installation file

* Specifications above are for 8,000 agents. Please contact us if you are planning to adopt more than 20,000 agents.
* An additional HDD may be required depending on the number of collected files.

AhnLab EPS Client for Windows

		Requirements
Hardware	CPU	Pentium 133Mhz or more
	Memory	15MB or more
	HDD	100MB or more
OS	Embedded OS	Windows Embedded XP / Standard 2009 / Standard 7 / POSReady 2009 / POSReady 7 / 8.1 Industry(Pro, Enterprise) / 10 IoT Enterprise / 11 IoT Enterprise
	Client OS	Windows 2000 Professional / XP(Professional) / Vista(Enterprise, Ultimate) / 7(Professional, Enterprise, Ultimate) / 8, 8.1(Professional, Enterprise) / 10(Professional, Enterprise) / 11(Professional, Enterprise)
	Server OS	Windows 2000 Server / Windows 2000 Advanced Server / Windows Server 2003 (Standard, Enterprise) / 2008(Standard, Enterprise) / 2012(Essentials, Standard) / 2016 (Essentials, Standard) / 2019(Essentials, Standard) / 2022(Essentials, Standard)

* Available OS versions and product features may vary due to the expiration of SHA-1 certificate.
* Supports both 32-bit and 64-bit versions for the OS above

AhnLab EPS Relay Server, AhnLab EPS Relay Client

		Requirements
Hardware	CPU	Pentium 133Mhz or more
	Memory	15MB or more
	HDD	100MB or more
OS	Embedded OS	Windows Embedded Standard 7 SP1 *KB4490628, KB4474419 patches applied / 8.1 Industry(Professional, Enterprise) / 10 IoT Enterprise / 11 IoT Enterprise
	Client OS	Windows 7 SP1(Professional, Enterprise, Ultimate) *KB4490628, KB4474419 patches applied / 8(Professional, Enterprise) / 8.1(Professional, Enterprise) / 10(Professional, Enterprise) / 11(Professional, Enterprise)
	Server OS	Windows Server 2008 SP2(Standard, Enterprise) *KB4493730, KB4474419 patches applied / 2008 R2 SP1(Standard, Enterprise) *KB4490628, KB4474419 patches applied / 2012(Essentials, Standard) / 2012 R2(Essentials, Standard) / 2016(Essentials, Standard) / 2019(Essentials, Standard) / 2022(Essentials, Standard)

* Supports both 32-bit and 64-bit versions for the OS above

AhnLab EPS Client for Linux

		Requirements
Hardware	CPU	Intel CPUs (32/64 bit)
	Memory	1GB or more
	HDD	500MB or more
OS		CentOS 3.3 ~ 8.1 / Red Hat Enterprise 3.3 ~ 8.1, 8.4 / Red Hat Linux 9 / antiX Linux 13.2, 15, 16.2, 17.2 / Ubuntu 10.04, 11.04, 11.10, 12.04, 14.04, 18.04 / Ruby Duck release 5.6(Marcy 5.1) / SUSE Linux 9.2 / Fedora 8, 14

2. Standalone Type

AhnLab EPS Standalone

		Requirements
Hardware	CPU	Pentium 233Mhz or more
	Memory	64GB or more
	HDD	1.5GB or more
OS	Embedded OS	Windows Embedded Standard 2009 / Standard 7 / POSReady 2009 / POSReady 7 / 8.1 Industry(Pro, Enterprise) / 10 IoT Enterprise
	Client OS	Windows XP SP2, SP3 Professional / Vista(Enterprise, Ultimate) / 7(Professional, Enterprise, Ultimate) / 8, 8.1(Pro, Enterprise) / 10(Pro, Enterprise) / 11(Professional, Enterprise)
	Server OS	Windows Server 2008(Standard, Enterprise) / 2012(Essentials, Standard) / 2016(Essentials, Standard) / 2019(Essentials, Standard) / 2022 (Essentials, Standard)

* Supports both 32-bit and 64-bit versions for the OS above

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