

Cisco Advanced Malware Protection for Endpoints

Product Overview

Organizations today are under the constant threat of cyber attack, and security breaches happen every day. Cisco Advanced Malware Protection (AMP) for Endpoints is a cloud-managed endpoint security solution that provides the visibility, context and control to not only prevent cyber attacks, but also rapidly detect, contain, and remediate advanced threats if they evade front-line defenses and get inside—all cost-effectively, without affecting operational efficiency, and before damage can be done.

AMP for Endpoints prevents attacks by providing the latest global threat intelligence to strengthen defenses, a built-in antivirus (AV) engine to detect and block attacks at point-of-entry, built-in sandboxing technology to analyze unknown files, and proactive protection capabilities that close attack pathways and minimize vulnerabilities. But if malware evades these prevention measures and gets inside, AMP for Endpoints continuously monitors and records all file activity to quickly detect malicious behavior, retrospectively alert security teams, and then provide deep visibility and a detailed recorded history of the malware's behavior over time—where it came from, where it's been, and what it's doing. AMP can then automatically contain and remediate the threat. AMP protects endpoints—like laptops, workstations, servers, and mobile devices—running Windows, Mac OS, Linux, Android and iOS.

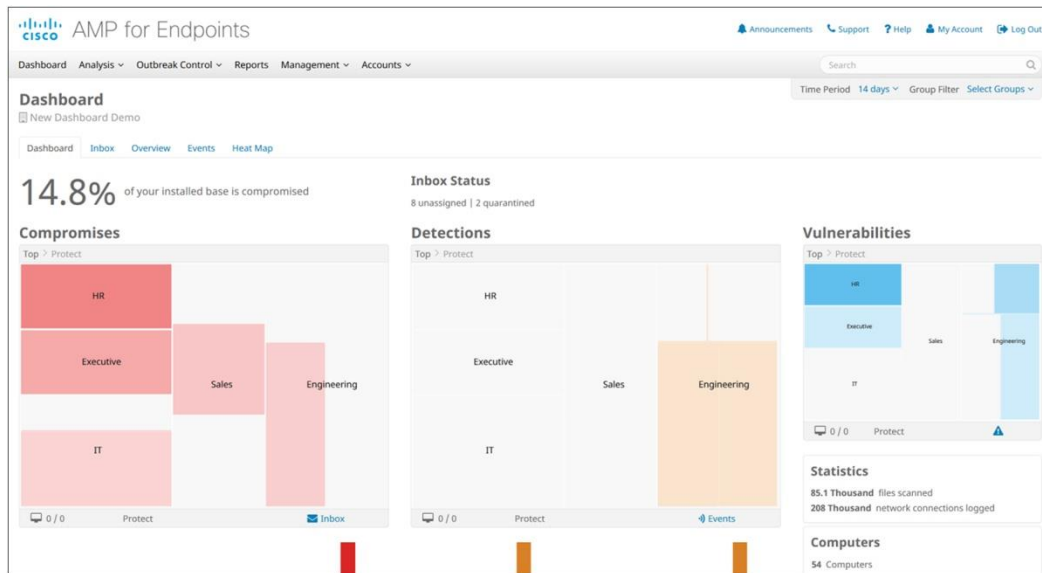
[Understand AMP for Endpoints in 5 minutes.](#)

Benefits include:

- **Protection that goes beyond prevention:** Cisco AMP for Endpoints goes beyond just preventing attacks. It analyzes files and traffic continuously. This capability helps enable retrospective security. You can look back in time and trace processes, file activities, and communications to understand the full extent of an infection, establish root causes, and perform remediation. The result: more effective, efficient, and pervasive protection for your organization.
- **Monitoring that enables unmatched visibility:** Cisco AMP for Endpoints offers more than retrospection. It introduces a new level of intelligence, linking and correlating various forms of retrospection into a lineage of activity available for analysis in real time. It can then look for patterns of malicious behavior from an individual endpoint or across the environment of endpoints.
- **Advanced analysis that looks at behaviors over time:** Cisco AMP for Endpoints provides automation through advanced behavioral detection capabilities that deliver a prioritized and collated view of top areas of compromise and risk.
- **Investigation that turns the hunted into the hunter:** Cisco AMP for Endpoints shifts activity from looking for facts and clues as part of an investigation to a focused hunt for breaches based on actual events like malware detections and behavioral indications of compromise (IoCs).
- **Containment that is truly simple:** Cisco AMP for Endpoints provides visibility into the chain of events and context that complements its dashboards and trajectory views. AMP provides the ability to target specific applications, files, malware, and other root causes. Breaking the attack chain is not only quick but also easy.

- **Dashboards that are actionable and contextual:** Reports are not limited to event enumeration and aggregation. Cisco AMP for Endpoints' actionable dashboards allow for streamlined management and faster response. (see Figure 1)
- **Integrated platforms that work better together:** Cisco AMP for Endpoints can be fully integrated with the Cisco AMP for Networks solution, and other AMP deployments, to further increase visibility and control across your organization.

Figure 1. Actionable and Contextual Dashboards



Increase Visibility, Context, and Control for Effective Security

Organizations struggle to find a solution that can effectively address the full lifecycle of the advanced malware problem: providing protection, incident response, and remediation against the latest threats without overburdening the budget or sacrificing operational efficiency. Part of the challenge comes from a lack of continuity and intelligence between detection and blocking technologies and incident response and remediation technologies.

Often, this lack of intelligence can leave an organization unaware of the full extent and depth of an outbreak, which cause incident response and remediation efforts to begin well after an outbreak. In addition, lack of continuity can cause infected systems and root causes to be missed during these efforts, leading to an endless cycle of reinfection.

As a result, security professionals often lack visibility into the scope of advanced malware in their network, struggle to contain and remediate it after an outbreak, and cannot address fundamental questions, including:

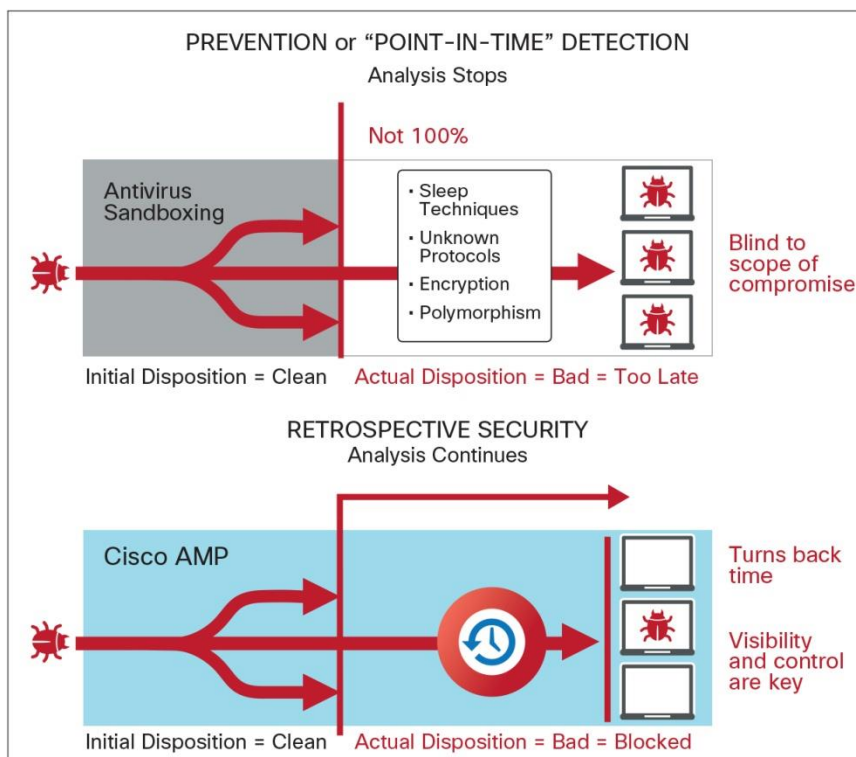
- What was the method and point of entry?
- What systems were affected?
- What did the threat do?
- Can we stop the threat and eliminate the root cause?
- How do we recover from the attack?
- How do we prevent it from happening again?

Cisco AMP for Endpoints Discovers, Analyzes, Blocks, and Remediates Advanced Malware

Preventative security tools alone will never be 100 percent effective at preventing all attacks. It takes only one threat that evades detection to compromise your environment. Using targeted context-aware malware, sophisticated attackers have the resources, expertise, and persistence to outsmart preventative defenses and compromise any organization at any time. Furthermore, prevention tools (or “point-in-time” detection tools) are completely blind to the scope and depth of a breach after it happens, rendering organizations incapable of stopping an outbreak from spreading or preventing a similar attack from happening again.

Cisco AMP for Endpoints can prevent attacks, but goes beyond just prevention to deliver continuous monitoring, detection, and response if malware gets inside. It delivers a lattice of detection capabilities combined with big data analytics to continuously analyze files and traffic on endpoints to determine if advanced malware is present (Figure 2). Sophisticated machine-learning techniques evaluate more than 400 characteristics associated with each file to analyze and block advanced malware. The combination provides protection that goes beyond traditional defenses. Retrospective security, the ability to roll back time on attacks, can detect and alert you to files that become malicious after the initial point of entry.

Figure 2. Prevention (or “Point-In-Time Detection”) Tools Compared with Continuous Analysis and Retrospective Security



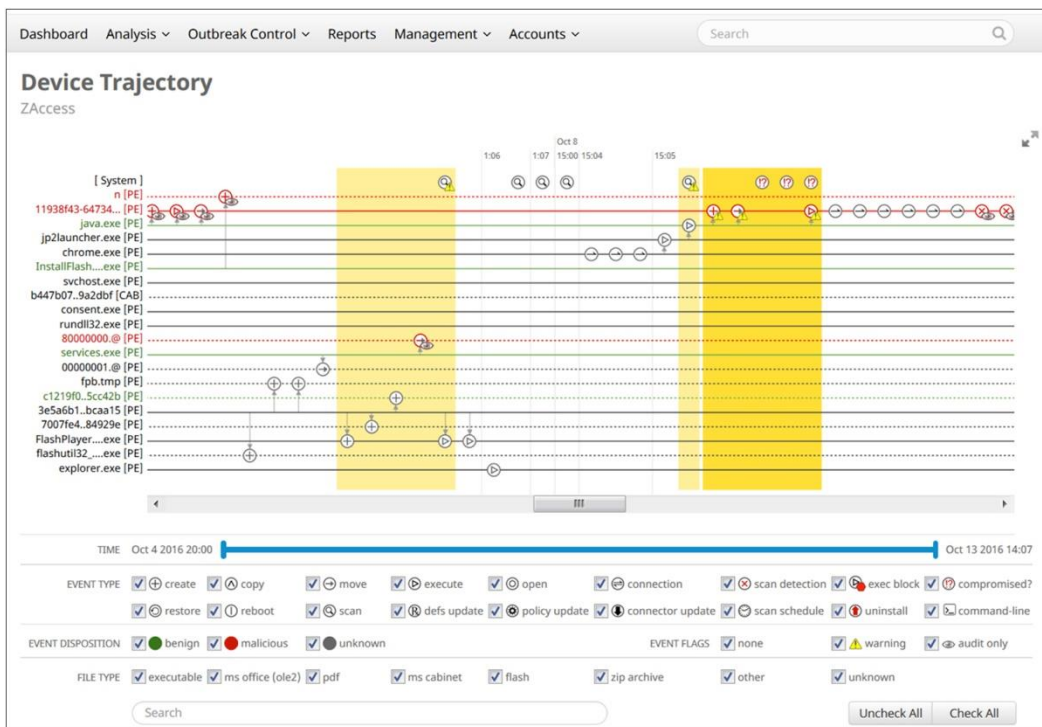
See More Than Ever Before and Control Advanced Malware

Today's malware is more sophisticated than ever. Evolving quickly, it can evade discovery after it has compromised a system while providing a launching pad for a persistent attacker to move throughout an organization. Sleep techniques, polymorphism, encryption, and use of unknown protocols are just some of the ways that malware can hide from view. The continuous analysis and retrospective security features of Cisco AMP for Endpoints let you uncover elusive malware and help you answer the following key questions in the battle against advanced threats.

- **What was the method and point of entry? What systems were affected?**

Powerful innovations like file trajectory and device trajectory (Figure 3) use AMP's big data analytics and continuous analysis capabilities to show you the systems affected by malware, including patient zero and the root causes associated with a potential compromise. These capabilities help you quickly understand the scope of the problem by identifying malware gateways and the path that attackers are using to gain a foothold into other systems.

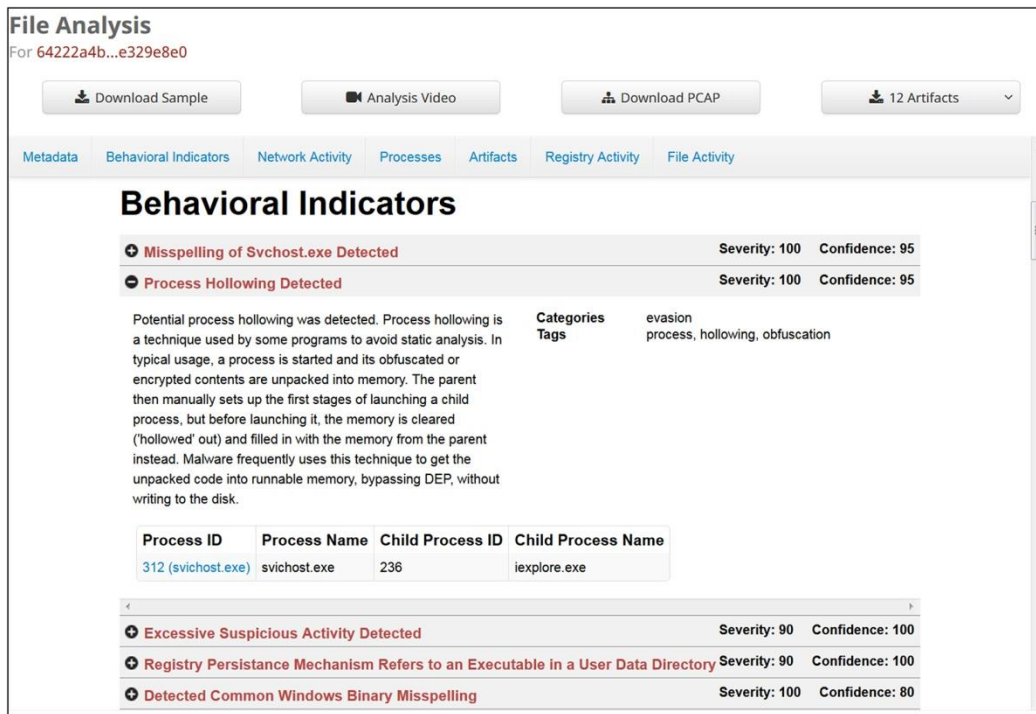
Figure 3. Deep Analysis with Device Trajectory



- **What did the threat do?**

Cisco AMP for Endpoints File Analysis (Figure 4), backed by the Talos Security Intelligence and Research Group and powered by AMP's built-in sandboxing technology (Threat Grid), provides a safe, highly secure sandbox environment for you to analyze the behavior of malware and suspect files. File analysis produces detailed information on file behavior, including the severity of behaviors, the original filename, screenshots of the malware executing, and sample packet captures. Armed with this information, you'll have a better understanding of what is necessary to contain the outbreak and block future attacks.

Figure 4. File Analysis



Device trajectory further aids a quick analysis of threat activity on a computer by tracking file and network activity at the endpoint in chronological order. You gain complete visibility into the events that occurred leading up to and following a compromise, including parent processes, connections to remote hosts, and unknown files that may have been downloaded by malware.

Indications of compromise (IoCs) are often subtle and require immediate investigation before they are erased or an attacker moves on. With the Cisco AMP for Endpoints Search, security teams can quickly hunt down the scope of exposure to an attack with simple but flexible search capabilities that immediately present results without the need to scan and pull data from endpoints.

- **Can we stop the threat and root causes? Can we prevent it from happening again?**

Cisco AMP for Endpoints Outbreak Control gives you a suite of capabilities to effectively stop the spread of malware and malware-related activities, like call-back communications or dropped file execution, without waiting for updates from your security vendor. This gives you the power to move directly from investigation to control with a few mouse clicks, significantly reducing the time a threat has to spread or do more damage and the time it normally takes to put controls in place.

Furthermore, AMP can automatically remediate systems without a full scan. The technology continuously cross-references files analyzed in the past against the latest threat intelligence and quarantines any files previously deemed clean or unknown that are now known to be a threat.

Protect PCs, Macs, Linux systems, Servers, Mobile Devices, and the Network

Cisco AMP for Endpoints protects you against advanced malware and increases security intelligence across all endpoints—PCs, Macs, Linux systems, servers, and mobile devices (Android and [iOS](#)). Its lightweight connector architecture uses big data analytics, which simplifies defense-in-depth requirements to address advanced malware.

Furthermore, Cisco AMP for Endpoints integrates with Cisco AMP for Networks, and other AMP deployments, to deliver comprehensive protection through a single pane of glass and across extended networks and endpoints. Now, using continuous analysis, retrospective security, and multisource indications of compromise, you can identify stealthy attacks that manage to traverse from the endpoint to inline at the network level, correlate those events for faster response, and achieve greater visibility and control.

Scale Up Protection for the Enterprise

AMP is optimized for the enterprise. In terms of privacy, all Cisco AMP for Endpoints connectors use metadata for analysis. Actual files are not needed and not sent to the cloud for analysis. For organizations with high privacy requirements, a private cloud option is also available. This single on-premises solution delivers comprehensive advanced malware protection using big data analytics, continuous analysis, and security intelligence stored locally on premises.

As for manageability, the Cisco AMP for Endpoints console interface provides complete management, deployment, policy configuration, and reporting for Windows systems, Mac systems, Linux systems, Android and iOS mobile devices.

As for performance, Cisco AMP for Endpoints deployed on PCs, Macs, Linux, Android and iOS use lightweight connector architectures, requiring less storage, computation, and memory than other security solutions, speeding protection against attacks.

Gain Truly Comprehensive Security Intelligence

Cisco AMP for Endpoints is built on big data and unmatched security intelligence. The Cisco Talos Security Intelligence and Research Group, and AMP Threat Grid threat intelligence feeds, represent the industry's largest collection of real-time threat intelligence with the broadest visibility, largest footprint, and ability to put it into action across multiple security platforms. This data is then pushed from the cloud to the AMP for Endpoints client so that you have the latest threat intelligence at all times.

The integration of our Threat Grid sandboxing technology into AMP for Endpoints also provides over 800 unique behavioral indicators that evaluate the actions of a file submission, not just its structure, providing insight to unknown malware including associated HTTP and DNS traffic, TCP/IP streams, processes it's affecting, and registry activity.

Threat Grid also provides users with context-rich, actionable content everyday - more than 8 million samples are analyzed each month resulting in billions of artifacts. And finally, Threat Grid's highly accurate content feeds, delivered in standard formats to seamlessly integrate with existing security technologies, enable organizations to generate context-rich intelligence specific to their organization.

Cisco AMP for Endpoints Leads in Third-Party Testing

Cisco AMP for Endpoints is the leader in NSS Labs' Breach Detection Systems Report for the third year in a row, according to the [2016 NSS Labs Breach Detection Systems Comparative Analysis Report](#). The 2016 NSS Labs comparative product test provides the details on how Cisco AMP achieved:

- 100% Security Effectiveness rating-the highest of all vendors tested
- Only vendor to detect and block 100% of malware, exploits, and evasion techniques during testing
- Fastest time to detection of all vendors tested
- Excellent performance with minimal impact on endpoint or application latency

Cisco AMP for Endpoints was also named a leader by IDC in their report [IDC Marketscape: Worldwide Endpoint Specialized Threat Analysis and Protection 2017 Vendor Assessment](#). In the report, IDC noted that AMP for Endpoints was particularly strong in the following areas:

- One of the most robust, comprehensive management consoles
- Provides investigators with rich contextual information
- The ability to provide continuous analysis of file activity and retrospection, a search through historical data to correlate previous activity that may be related to a newly detected threat
- The ability to provide sandboxing analysis as an included feature of the endpoint solution
- The power of the greater AMP integrated architecture to share and correlate information between the endpoint, network, email, and web security solutions

Cisco AMP for Endpoints also excelled in Gartner's 2017 report entitled [The Evolving Effectiveness of Endpoint Protection Solutions](#). The report highlighted how AMP for Endpoints and 11 other endpoint security solutions performed in three primary categories:

- Attack surface reduction
- Pre-execution endpoint protection techniques
- Post-execution endpoint protection techniques

Table 1 highlights the best-in-class capabilities of Cisco AMP for Endpoints. Table 2 lists the software requirements.

Table 1. Features and Benefits of Cisco AMP for Endpoints

Feature	Benefits
Continuous analysis	Once a file lands on the endpoint, AMP for Endpoints continues to watch, analyze, and record all file activity, regardless of the file's disposition. When malicious behavior is detected, AMP shows you a recorded history of the malware's behavior over time: where it came from, where it's been, and what it's doing. This helps you scope the compromise and quickly respond. Continuous analysis in 4 minutes.
Retrospective security	Retrospective security is the ability to look back in time and trace processes, file activities, and communications in order to understand the full extent of an infection, establish root causes, and perform remediation. The need for retrospective security arises when any IoC occurs, such as an event trigger, a change in the disposition of a file, or an IoC trigger. Watch Demo
Dashboards	Gain visibility into your environment through a single pane of glass - with a view into hosts, devices, applications, users, files, and geolocation information, as well as advanced persistent threats (APTs), threat root causes, and other vulnerabilities - to provide a comprehensive contextual view so that you can make informed security decisions.
Comprehensive global threat intelligence	Cisco Talos Security Intelligence and Research Group, and Threat Grid threat intelligence feeds represent the industry's largest collection of real-time threat intelligence with the broadest visibility, the largest footprint, and the ability to put it into action across multiple security platforms.
Indications of compromise	File, telemetry, and intrusion events are correlated and prioritized as potentially active breaches, helping security teams to rapidly identify malware incidents and connect them to coordinated attacks.
File reputation	Advanced analytics and collective intelligence are gathered to determine whether a file is clean or malicious, allowing for more accurate detection.
Antivirus Engine	Perform offline and system-based detections, including rootkit scanning, to complement Cisco's advanced endpoint protection capabilities such as local IOC scanning, and device and network flow monitoring. The engine can be enabled and used by customers that want to consolidate their antivirus and advanced endpoint protection in one agent.
File analysis and sandboxing	A highly secure environment helps you execute, analyze, and test malware behavior in order to discover previously unknown zero-day threats. Integration of Threat Grid's sandboxing technology into AMP for Endpoints results in more dynamic analysis checked against a larger set of behavioral indicators. Watch Demo
Retrospective detection	Alerts are sent when a file disposition changes after extended analysis, giving you awareness and visibility to malware that evaded initial defenses.
File trajectory	Continuously track file propagation over time throughout your environment in order to achieve visibility and reduce the time required to scope a malware breach.
Device trajectory	Continuously track activity and communication on devices and on the system level to quickly understand root causes and the history of events leading up to and after compromise. Watch Demo
Elastic search	A simple, unbounded search across file, telemetry, and collective security intelligence data helps you quickly understand the context and scope of exposure to an IoC or malicious application.
Endpoint search	A simple interface to easily and quickly search across all endpoints looking for artifacts left behind as part of the malware ecosystem, extending search capabilities beyond data stored in the cloud to the endpoint itself.
Exploit Prevention	Memory attacks can penetrate endpoints, and malware evades security defenses by exploiting vulnerabilities in applications and operating system processes. The Exploit Prevention feature will defend endpoints from all exploit-based, memory injection attacks—including ransomware using in-memory techniques, web-borne attacks that use shellcode to run a payload, and zero-day attacks on software vulnerabilities yet to be patched.
Low prevalence executables	Display all files that have been executed across your organization, ordered by prevalence from lowest to highest, to help you surface previously undetected threats seen by a small number of users. Files executed by only a few users may be malicious (such as a targeted advanced persistent threat) or questionable applications you may not want on your extended network.
Endpoint IoCs	Users can submit their own IoCs to catch targeted attacks. These Endpoint IoC's let security teams perform deeper levels of investigation on lesser known advanced threats specific to applications in their environment.
Vulnerabilities	Identify vulnerable software and close attack pathways. This feature shows a list of hosts that contain vulnerable software, a list of the vulnerable software on each host, and the hosts most likely to be compromised. Powered by our threat intelligence and security analytics, AMP identifies vulnerable software being targeted by malware, shows you the potential exploit, and provides you with a prioritized list of hosts to patch.
Command Line Visibility	This feature provides visibility into what command lines arguments are used to launch executables. See into command line arguments to determine if legitimate application, including Windows utilities, are being used for malicious purposes. For instance, see if vssadmin is being used to delete shadow copies or disable safe boots; get visibility into PowerShell-based exploits; see into privilege escalation, modifications of access control lists (ACLs), and attempts to enumerate systems.
Application Programming Interface (API)	With a bi-directional (read and write) API enabled on AMP for Endpoints, users can more easily integrate with third-party security tools and SIEMs, and access data and events in their AMP for Endpoints account without the need to log into the management console.

Feature	Benefits
Outbreak control	Achieve control over suspicious files or outbreaks, and quickly and surgically control and remediate an infection without waiting for a content update. Within the outbreak control feature, simple custom detections can quickly block a specific file across all or selected systems; advanced custom signatures can block families of polymorphic malware; application blocking lists can enforce application policies or contain a compromised application being used as a malware gateway and stop the re-infection cycle; custom whitelists will help ensure that safe, custom, or mission-critical applications continue to run no matter what; and device flow correlation will stop malware call-back communications at the source, especially for remote endpoints outside the corporate network. Watch Demo
Integration with Threat Grid	The integration of Threat Grid's sandboxing technology and advanced malware analysis capabilities into AMP for Endpoints provides over 800 unique behavioral indicators analyzing the actions of a file, easy to understand threat scores, and billions of malware artifacts at your disposal for unmatched scale and coverage from global threats. No need to deploy a sandbox from a third party or worry about any type of outside integration.
Integration with Cognitive Threat Analytics (CTA)	Get agentless detection when AMP for Endpoints is deployed alongside a compatible web proxy, like Cisco WSA, or a third-party web proxy like Blue Coat ProxySG. See an average 30% more infections across your environment; uncover file-less or memory-only malware, and infections that live in a web browser only; catch malware before it compromises the OS-level; get visibility into devices with no AMP for Endpoints connector installed; see CTA detection events in the AMP for Endpoints management console. See Overview
AMP Private Cloud Virtual Appliance	AMP for Endpoints can be deployed as an on-premises, air-gapped solution built specifically for organizations with high-privacy requirements that restrict using a public cloud.
Launch from AnyConnect v4.1	With a Cisco AnyConnect v4.1 remote access VPN client installed, users can elect to launch the AMP for Endpoints connector on that remote endpoint. This allows for a rapid expansion of endpoint threat protection to VPN-enabled endpoints and further minimizes the potential of an attack from a remote host. Gain more insight into remote endpoints, and accelerate remediation efforts during or after an attack.

Table 2. Software Requirements

Cisco AMP for Endpoints	<ul style="list-style-type: none"> • Microsoft Windows XP with Service Pack 3 or later • Microsoft Windows Vista with Service Pack 2 or later • Microsoft Windows 7 • Microsoft Windows 8 and 8.1 • Microsoft Windows 10 • Microsoft Windows Server 2003 • Microsoft Windows Server 2008 • Microsoft Windows Server 2012 • Mac OS X 10.7 and later • Linux Red Hat Enterprise 6.5, 6.6, 6.7, 6.8, 7.2, and 7.3 • Linux CentOS 6.4, 6.5, 6.6, 6.7, 6.8, 7.2 and 7.3
Cisco AMP for Endpoints on Android mobile devices	<ul style="list-style-type: none"> • Android version 2.1 and later
Cisco AMP for Endpoints on Apple iOS	MDM supervised iOS version 11

Platform Support and Compatibility

Cisco AMP for Endpoints includes Cisco AMP for Endpoints licenses and subscriptions (1, 3, and 5 year options) and the lightweight connector. Cisco AMP for Endpoints is compatible with Cisco AMP for Networks and other [AMP deployments](#). Cisco AMP for Endpoints can also be launched from Cisco AnyConnect v4.1 on remote endpoints.

Warranty Information

Find warranty information on the Cisco.com [Product Warranties](#) page.

Ordering Information

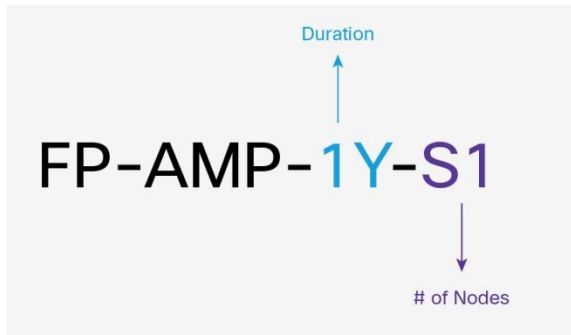
Cisco AMP for Endpoints can be ordered using the appropriate License and Subscription part numbers:

1. Begin by searching for the AMP for Endpoints license part number: FP-AMP-LIC=
2. Enter the quantity that equals the number of AMP for Endpoints connectors that are being purchased

3. After the number is entered, the correct Subscription part number will be auto-selected. A 1-year subscription is the default
4. AMP for Endpoints accounts are term-based subscriptions of 1, 3, or 5 years. Terms of 3 or 5 years will require editing the Service/Subscription term for the FP-AMP-LIC= part number

Figure 5 shows the structure of the AMP for Endpoints part numbers.

Figure 5. Example of AMP for Endpoints Subscription Part Number



To place an order, visit the [Cisco Ordering Home Page](#), contact your Cisco sales representative, or call us at 800 553-6387.

Cisco Advanced Malware Protection for Endpoints Subscription SKUs

Cisco Advanced Malware Protection for Endpoints Subscription SKUs		
Part Number	Subscription SKU	Description
FP-AMP-LIC=	FP-AMP-1Y-S1	Cisco Advanced Malware Protection 1YR, 50-99 Nodes
FP-AMP-LIC=	FP-AMP-1Y-S2	Cisco Advanced Malware Protection 1YR, 100-499 Nodes
FP-AMP-LIC=	FP-AMP-1Y-S3	Cisco Advanced Malware Protection 1YR, 500-999 Nodes
FP-AMP-LIC=	FP-AMP-1Y-S4	Cisco Advanced Malware Protection 1YR, 1K-4999 Nodes
FP-AMP-LIC=	FP-AMP-1Y-S5	Cisco Advanced Malware Protection 1YR, 5K-9999 Nodes
FP-AMP-LIC=	FP-AMP-1Y-S6	Cisco Advanced Malware Protection 1YR, 10K-12499 Nodes
FP-AMP-LIC=	FP-AMP-1Y-S7	Cisco Advanced Malware Protection 1YR, 12500-14999 Nodes
FP-AMP-LIC=	FP-AMP-1Y-S8	Cisco Advanced Malware Protection 1YR, 15K-17499 Nodes
FP-AMP-LIC=	FP-AMP-1Y-S9	Cisco Advanced Malware Protection 1YR, 17500-19999 Nodes
FP-AMP-LIC=	FP-AMP-1Y-S10	Cisco Advanced Malware Protection 1YR, 20K-22499 Nodes
FP-AMP-LIC=	FP-AMP-1Y-S11	Cisco Advanced Malware Protection 1YR, 22500-24999 Nodes
FP-AMP-LIC=	FP-AMP-1Y-S12	Cisco Advanced Malware Protection 1YR, 25000+ Nodes
FP-AMP-LIC=	FP-AMP-3Y-S1	Cisco Advanced Malware Protection 3YR, 50-99 Nodes
FP-AMP-LIC=	FP-AMP-3Y-S2	Cisco Advanced Malware Protection 3YR, 100-499 Nodes
FP-AMP-LIC=	FP-AMP-3Y-S3	Cisco Advanced Malware Protection 3YR, 500-999 Nodes
FP-AMP-LIC=	FP-AMP-3Y-S4	Cisco Advanced Malware Protection 3YR, 1K-4999 Nodes
FP-AMP-LIC=	FP-AMP-3Y-S5	Cisco Advanced Malware Protection 3YR, 5K-9999 Nodes
FP-AMP-LIC=	FP-AMP-3Y-S6	Cisco Advanced Malware Protection 3YR, 10K-12499 Nodes
FP-AMP-LIC=	FP-AMP-3Y-S7	Cisco Advanced Malware Protection 3YR, 12500-14999 Nodes
FP-AMP-LIC=	FP-AMP-3Y-S8	Cisco Advanced Malware Protection 3YR, 15K-17499 Nodes
FP-AMP-LIC=	FP-AMP-3Y-S9	Cisco Advanced Malware Protection 3YR, 17500-19999 Nodes
FP-AMP-LIC=	FP-AMP-3Y-S10	Cisco Advanced Malware Protection 3YR, 20K-22499 Nodes

Cisco Advanced Malware Protection for Endpoints Subscription SKUs		
Part Number	Subscription SKU	Description
FP-AMP-LIC=	FP-AMP-3Y-S11	Cisco Advanced Malware Protection 3YR, 22500-24999 Nodes
FP-AMP-LIC=	FP-AMP-3Y-S12	Cisco Advanced Malware Protection 3YR, 25000+ Nodes

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