

# AMP FOR ENDPOINTS RELEASE NOTES

Version 5.4

17 September 2020

## Cisco Security Connector 1.5.0

### Bugfixes/Enhancements

- Updated Umbrella to 1.5.0. See Umbrella release notes for details:  
<https://support.umbrella.com/hc/en-us/sections/206928207-Release-Notes-for-Umbrella-Software>

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**IMPORTANT!** This release of the Cisco Security Connector is available for devices running iOS 13.2 and higher.

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15 September 2020

## AMP for Endpoints Console 5.4.20200915

### New

- You can save and recall filters on the Computers page.

### Bugfixes/Enhancements

- Added Behavioral Protection Demo Data.
- More details added to Behavioral Protection events.

10 September 2020

- [Premier tier only] Exported CSV files for SecureX Threat Hunting events include a field for update/delete reason.
- SecureX ribbon updated to 1.3.0.
- Improved filter view on the Computers page.
- It is easier to make selections in the Device Trajectory interface.
- Fixes to dark mode in Device Trajectory.
- Added button to expand or collapse all rows on the Indicators page.
- Events arriving at the same time appear in the correct order on the Events page.

10 September 2020

## AMP for Endpoints Android Connector 2.0.2

### New

- New Activity Log for viewing events in the app.

### Bugfixes/Enhancements

- The app now runs as a foreground service in the notification area.
- Reduced battery consumption in idle state.
- Improved logging for troubleshooting.
- More robust recovery from network errors.
- Added SHA-256 for detection events in AMP console.

9 September 2020

## AMP for Endpoints Windows Connector 7.3.1

### New

- New Behavioral Protection engine available (64-bit versions of Windows).
- Specialized Behavioral Protection events include observables, observed activity, and action taken.
- Added Behavioral Protection process exclusion type.
- Exploit Prevention engine with Audit mode support.
- Exploit Prevention engine with Script Control support.

### Bugfixes/Enhancements

- Increased the number of process exclusions honored by the Connector to 500.
- Improved stability of local UI notifications.
- Addressed an issue where System Process Protection exclusions would not work for processes that start before the Connector. (CSCvt63211)

1 September 2020

- Changed Connector driver altitudes to officially registered altitudes.
- Removed Connector-related events and logs from a computer when the Connector is uninstalled
- Addressed issues with file exclusions.
- Addressed an issue with low prevalence uploads of portable executable files (CSCvv52410)
- General performance and stability improvements for Exploit Prevention engine.
- Fix for the vulnerability described in CVE-2019-0708.
- Fixed Exploit Prevention engine compatibility issues with the following applications:
  - APTA Connect
  - MS PowerPoint 2016/2013
  - FSLogix
  - Internet Explorer and different plugins
  - CIG
  - ACG
  - MS Office Appv applications
  - Visual Studio debugger
  - Vizient and Open Text IRM
  - Black Knight
- Product upgrades no longer fail under a rare condition when the Network Flow Monitoring (NFM) driver was left behind from an old Connector that required reboots on upgrades. (CSCvv20713)

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**IMPORTANT!** A reboot will be required for this upgrade on any computers where the Connector meets this condition.

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1 September 2020

## AMP for Endpoints Console 5.4.20200901

### Bugfixes/Enhancements

- [Premier tier only] Computers can now be removed from a SecureX Threat Hunting Incident Report.
- [Premier tier only] The Dashboard, Inbox and Overview pages now only reflect computers in the current version of the SecureX Threat Hunting Incident Report. Events are now generated for added and deleted computers.
- Fixed layout issues on the Computers page when the filter panel is collapsed.
- Fixed alignment issues on the Dashboard and Inbox when items are muted.
- Fixed a discrepancy between the Vulnerable Software page and the CSV export. The CSV export only showed one of the observed groups even if there was more than one group.

18 August 2020

## AMP for Endpoints Mac Connector 1.12.7 (supersedes 1.12.0-1.12.4)

### Bugfixes/Enhancements

- Reduce installer size to further mitigate issue where 1.12.0-1.12.4 Connectors may fail to upgrade via policy on slow networks. (CSCvv37020)
- Fixed issue with upload timeouts for remote file fetch and snapshot upload over slow networks. (CSCvv17808)
- Patched ClamAV 0.102.3 to include changes related to the following vulnerabilities:
  - CVE-2020-3481
  - CVE-2020-3327

## AMP for Endpoints Console 5.4.20200818

### Bugfixes/Enhancements

- [Premier tier only] Threat Hunting incidents table updated with headers.
- [Premier tier only] Users subscribed to Critical Announcements receive an email when a Threat Hunting incident is updated.
- [Premier tier only] Deleted computers are removed from the Threat Hunting incident report and the timeline. The computers and timeline sections of the Threat Hunting incident report are hidden if there are no computers remaining.
- [Premier tier only] Fixed IE 11 compatibility issues with Threat Hunting timeline.
- [Premier tier only] Added a full description to supplementary Orbital links in Threat Hunting.
- Fixed Computer Management page rendering issue when there is only a single computer.
- SecureX ribbon updated to 1.2.3.
- The “Need Connector Update” metric on the Computer Management page counts unsupported Connectors.

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**IMPORTANT!** The number of Connectors that need updates are higher than before because unsupported Connectors are now counted.

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11 August 2020

11 August 2020

## AMP for Endpoints Linux Connector 1.12.7 (Supersedes 1.12.0-1.12.5)

### Bugfixes/Enhancements

- Reduce installer size to further mitigate issue where 1.12.0-1.12.5 Connectors may fail to upgrade via policy on slow networks. (CSCvv07225)
- Fixed issue with upload timeouts for remote file fetch and snapshot upload over slow networks. (CSCvv17808)
- Patched ClamAV 0.102.3 to include changes related to the following vulnerabilities:
  - CVE-2020-3481
  - CVE-2020-3327

6 August 2020

## AMP for Endpoints Windows Connector 7.2.13

### Bugfixes/Enhancements

- Fixed a privilege escalation vulnerability. (CVE-2020-3350, CSCvt98752)
- Improved TETRA definition update mechanism by dropping buggy ciphers from the update servers. (CSCvu75358)
- Made stability and efficacy improvements to the Malicious Activity Protection engine.
- Resolved Exploit Prevention engine compatibility issues with the following applications:
  - Powershell System.Management.Automation.Runspaces.LocalRunspace
  - PDF API and HTML to PDF Converter for .NET (EO.Pdf.dll)

4 August 2020

## AMP for Endpoints Console 5.4.20200804

### Bugfixes/Enhancements

- [Premier tier only] The SecureX Threat Hunting Incident Report was reformatted for a better user experience. The date the analyst discovered the incident and the date the incident started have also been clarified.
- Fixed a time stamp discrepancy between events in the console and the downloaded CSV files.

- Event export CSV files were renamed when the export consists of a single file.
- Reduced the footprint of the SecureX ribbon to reduce overlap with other elements of the Console.
- Policy Save/Cancel buttons have been repositioned to improve the integration with the SecureX ribbon.

21 July 2020

## AMP for Endpoints Console 5.4.20200721

### New

- [Premier tier only] Users receive an email notification for new Threat Hunting incidents if they are subscribed to Critical Issues in their announcement preferences.
- [Premier tier only] Users can navigate from each event in the timeline section of Threat Hunting reports to the corresponding time stamp in Device Trajectory if the event is within the last 30 days.
- Added a policy setting to enable a button in the Windows Connector UI to update TETRA definitions on demand. Only available for Windows Connector 7.2.11 and higher.
- IP List Create and Update Audit Logs show the specific IP addresses that were added and deleted from the list.

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**IMPORTANT!** The first 1000 added IP addresses and 1000 deleted IP addresses are displayed per audit log before the list is truncated.

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### Bugfixes/Enhancements

- Device Trajectory Event Listing displays proper labels for system events.
- Fixed alignment issues with statistics on Dashboard and with Policy Product Updates.
- Dates in Device Trajectory do not scroll out of view.
- Threat Detected in Low Prevalence has been added to Device Trajectory.

## AMP for Endpoints Linux Connector 1.13.1

### Bugfixes/Enhancements

- Fixed realtime filesystem and network monitoring when running the Connector on RHEL 7.9 beta releases.
- Fixed a timeout issue that could cause failures when upgrading the Connector via policy on slow networks (CSCvv07225).
- The installer removes stale database files when upgrading from an older version of the Connector (CSCvu98581).

- The Connector now scans all local storage devices and logical volumes during a full scan.
- Reduced Connector CPU and disk space usage when the associated user of a process exclusion does not exist on the system.
- Updated ClamAV to 0.102.3, including changes related to the vulnerability described in CVE-2020-3341.

## AMP for Endpoints Linux Connector 1.12.6

### Bugfixes/Enhancements

- Fixed realtime filesystem and network monitoring when running the Connector on RHEL 7.9 beta releases.
- Fixed a timeout issue that could cause failures when upgrading the Connector via policy on slow networks (CSCvv07225).
- The installer removes stale database files when upgrading from an older version of the Connector (CSCvu98581).
- The Connector now scans all local storage devices and logical volumes during a full scan.
- Reduced Connector CPU and disk space usage when the associated user of a process exclusion does not exist on the system.
- Updated ClamAV to 0.102.3, including changes related to the vulnerability described in CVE-2020-3341.

## AMP for Endpoints Mac Connector 1.12.6

### Bugfixes/Enhancements

- Fixed a timeout issue that could cause failures when upgrading the Connector via policy on slow networks (CSCvv07225).
- The installer removes stale database files when upgrading from an older version of the Connector (CSCvu98581).
- The Connector now scans all local storage devices and logical volumes during a full scan.
- Reduced Connector CPU and disk space usage when the associated user of a process exclusion does not exist on the system.
- Updated ClamAV to 0.102.3, including changes related to the vulnerability described in CVE-2020-3341.

7 July 2020

## AMP for Endpoints Console 5.4.20200707

### New

- [Premier tier only] The Threat Hunting timeline view displays user information. When the user data is not available, the view displays a label “Unknown”.
- [Premier tier only] Threat Hunting events appear in the dashboard, inbox, and overview pages as a new event type for each hunt.

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**IMPORTANT!** Threat Hunting events cannot be muted like other event types.

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- [Premier tier only] The Threat Hunting incidents report obeys the user time zone settings. Users can click the time display on console pages to access time-related functionality.
- Failure Events in exported Events CSV have error codes.

### Bugfixes/Updates

- Fixed discrepancies between license information displayed on the license page vs. displayed on the weekly/monthly/quarterly reports.
- To make the presentation of events more consistent between the Events tab, CSV export and the API, all events are displayed as separate independent events. (Before this version, a detection event followed by a quarantine event was displayed as a single event. As of this version, these events are displayed separately.)
- Audit logs for **automated actions - triggered forensic snapshot** display the user correctly.

25 June 2020

## AMP for Endpoints Windows Connector 7.2.11 (supersedes 7.2.5 and 7.2.7)

### New

- Added support for Windows 10 May 2020 Update (Version 2004)

### Bugfixes/Updates

- For policy upgrades the Connector honors the time zone on the endpoint rather than assuming UTC-0. (CSCvt59185)
- File properties are filled out for AMP Connector DLLs.
- Addressed crash that could sometimes occur when Connector is configured to use a proxy to communicate with the AMP Cloud.
- Addressed issue where Connector upgrades could hang indefinitely.
- Addressed issue where an identity sync error could cause the Connector to hang on shutdown.
- Addressed issue where some DLL files were not removed after uninstalling the Windows Connector.
- Connector generates driver logs on agent start up if configured to in the policy.
- Cleaned up signal handling in Proxy Discovery.
- Performance improvements for Script Protection.
- Addressed issue where System Process Protection exclusions would not work for processes that start before the AMP Connector. (CSCvt63211)
- Update driver altitude to fix compatibility issue against other AV. (CSCvt99262)
- Fixed Connector crash caused by long network interface names. (CSCvu15646)
- Fix to prevent ClamAV log files from filling up disk space. (CSCvu65043)
- Updated Exploit Prevention Engine to include changes related to the vulnerability described in CVE-2020-0796.
- Resolved Exploit Prevention engine compatibility issue with:
  - ExOpen
  - Outlook VBA plugin

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**IMPORTANT!** A recent change to log handling caused disk space to fill up during high scan activity. This has been fixed in v7.2.11. (CSCvu65043)

Cisco recommends upgrading all v7.2.5 & v7.2.7 Connectors to v7.2.11 to avoid issues related to disk space.

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24 June 2020

## AMP for Endpoints Console 5.4.20200624

### Bugfixes/Updates

- Fixed issue where MSSP partners were not able to see more than 25 customers on the MSSP partner page. (CSCvu61075)
- Updated list of processes protected by and excluded from the AMP for Endpoints Windows Exploit Prevention engine.

#### New Protected Processes:

- Microsoft HTML Application Host
- Windows Script Host
- Microsoft Assembly Registration Tool
- Zoom
- Skype
- Slack
- Cisco Webex Teams
- Microsoft Teams

#### The engine also monitors the following directories:

- Windows AppData Temp Directory  
(\Users\[username]\AppData\Local\Temp\)
- Windows AppData Roaming Directory  
(\Users\[username]\AppData\Roaming\)

The following processes are excluded from Exploit Prevention monitoring because of compatibility issues:

- McAfee DLP Service
- McAfee Endpoint Security Utility

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**IMPORTANT!** This change will be included when you change the Exploit Prevention conviction mode to block, or the next time you save a policy that already has Exploit Prevention set to block. Until then the existing list will be used.

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9 June 2020

## AMP for Endpoints Console 5.4.20200609

### New

- When exporting events to a CSV file, you will now receive an email containing a link to download an archive file containing one or more CSV files depending on the number of events.

### Bugfixes/Updates

- Fixed an issue that prevented users from disabling file fetch from the Business Settings page. (CSCvu21445)
- Fixed an erroneous warning about moving iOS devices to a new group when no iOS devices were being moved. (CSCvu01056)
- Improved performance when loading the Computers page summary for an organization with a large number of Connectors installed.

27 May 2020

## AMP for Endpoints Console 5.4.20200527

### Bugfixes/Enhancements

- CSV exports for Events will now be handled via a download link emailed to the user.
- Some list pages now use a floating pagination bar to allow increased visibility.

## AMP for Endpoints Linux Connector 1.13.0

### New

- Added official support for RHEL/CentOS/Oracle Linux 8.1 and 8.2. The kernel-devel package must be installed on these systems to enable realtime network and file monitoring. A Connector fault will be raised if this package cannot be found. See [Linux Kernel-Devel](#) Fault for more information.
- Automatic crash reporting is available when the Connector is running on RHEL/CentOS/Oracle Linux 7 and 8. The setting is enabled by default and can be found in Administrative Features under Advanced Settings in Linux Connector policies.

20 May 2020

## AMP for Endpoints Linux Connector 1.12.5 (superseded by 1.12.7)

### New

- Added official support for RHEL/CentOS/Oracle (RHCK) Linux 7.8. See [AMP for Endpoints Linux Connector OS Compatibility](#) and [AMP for Endpoints Compatibility with RHEL/CentOS/Oracle Linux 7.8](#) for more information.

12 May 2020

## AMP for Endpoints Console 5.4.20200512

### Bugfixes/Enhancements

- The Conviction Mode for Script Protection in new policies now defaults to Quarantine.
- Orbital install events are now reported correctly for unsupported operating systems.
- Clicking a file name in Device Trajectory will highlight the row.
- Minor UI fixes for dark mode.

11 May 2020

## AMP for Endpoints Mac Connector 1.12.4 (superseded by 1.12.7)

### Bugfixes/Enhancements

- Fixed a memory leak that could occur when setting up a proxy.

## AMP for Endpoints Linux Connector 1.12.4 (superseded by 1.12.7)

### Bugfixes/Enhancements

- Fixed an issue in the redirfs kernel module affecting Connector version 1.12.3 on RHEL/CentOS 6 that could cause the computer to hang with high CPU utilization. You must reboot the computer after upgrading for the changes to take effect. (CSCvu07130)
- Fixed a memory leak that could occur when setting up a proxy.

28 April 2020

## AMP for Endpoints Console 5.4.20200428

### New

- Added a policy setting to allow the Malicious Activity Protection engine to monitor network drives.

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**IMPORTANT!** This setting will be enabled when you change the MAP conviction mode to audit, block, or quarantine or the next time you save a policy that already has MAP set to audit, block, or quarantine. Until then, it will not be enabled.

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### Bugfixes/Enhancements

- Automated Actions logs now store 30 days of events.
- Fixed an issue that sometimes prevented child groups from being selected in Automated Actions.
- Updated the list of processes protected by the AMP for Endpoints Windows Connector Exploit Prevention engine.

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**IMPORTANT!** This change will be included when you change the Exploit Prevention conviction mode to block, or the next time you save a policy that already has Exploit Prevention set to block. Until then the existing list will be used.

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16 April 2020

## AMP for Endpoints Windows Connector 7.2.7 (superseded by 7.2.11)

### New

- Added support for Windows 10 20H1 Update (Version 2004) (Preview build: 19041.173).

### Bugfixes/Enhancements

- Malicious Activity Protection (MAP) engine performance improvements.
- Resolved an issue where the Connector service would freeze on startup under certain circumstances. (CSCvt38340)
- Fixed an installer issue that failed to send reboot completed and update completed events when a reboot is required on upgrade.
- Windows Connector now reports the correct processor ID of the computer.

## AMP for Endpoints Android Connector 2.0.1

### New

- Added Export Logs in left navigation menu to help with diagnosis of any Connector issues.

### Bugfixes/Enhancements

- Fix for a provisioning error that could occur on upgrades using an APK without an embedded policy.
- Fixed an error that could cause a Scan Failed message when the device is left on overnight.

14 April 2020

## AMP for Endpoints Console 5.4.20200414

### New

- Added Automated Action to move compromised computers to a different group.

7 April 2020

## AMP for Endpoints Windows Connector 7.2.5 (superseded by 7.2.11)

### Bugfixes/Enhancements

- Fixed an issue where the Connector could cause a fatal system error when used in conjunction with software that use file system locks as part of their normal operation. (CSCvt56075)
- Improved uninstall logic to gracefully handle Orbital uninstall failures that could block the Connector uninstall.

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**IMPORTANT!** The nature of the error in 7.2.3 requires a reboot of the computer when upgrading to 7.2.5 or any later version. Note that you can use the Reboot Delay setting in policy to defer when computers reboot but you cannot use the Block Update if Reboot Required setting. If you experience fatal stop errors when uninstalling or upgrading you can uninstall in Safe Mode or [contact support](#) for help.

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## AMP for Endpoints Mac Connector 1.12.3 (superseded by 1.12.7)

### Bugfixes/Enhancements

- Fixed a connection failure due to invalid activation code after new install (CSCvt29571).
- Added ID numbers to fault information displayed in the ampcli.

3 April 2020

## AMP for Endpoints Linux Connector 1.12.3 (superseded by 1.12.7)

### New

- Added official support for Oracle Linux 6.10 Red Hat Compatible Kernel (RHCK). Oracle UEK is not supported.

### Bugfixes/Enhancements

- Fixed a rare kernel panic on RHEL/CentOS 6 when the Connector service is frequently restarted (CSCvt54122).
- Fixed a connection failure due to invalid activation code after new install (CSCvt29571).
- Added ID numbers to fault information displayed in the ampccli.

3 April 2020

## AMP for Endpoints Console 5.4.20200403

### Bugfixes/Enhancements

- Added a theme control to user account settings to switch to dark mode manually.

31 March 2020

## AMP for Endpoints Console 5.4.20200331

### New

- Added Automated Action to send files involved in a compromise to Threat Grid for analysis.
- Dark mode is available on browsers that support it on Windows, macOS, and iOS versions that include it.

### Bugfixes/Enhancements

- Fixed an issue that caused the CSV file export from the Vulnerable Software page to be empty. (CSCvt30917)
- Added support for deploying the Cisco Security Connector through Microsoft Intune.
- Added more time options to the Reboot Delay under Product Updates in Windows policies.

27 March 2020

## Cisco Security Connector 1.4.4

### Bugfixes/Enhancements

- Updated Umbrella <https://support.umbrella.com/hc/en-us/articles/360049108311-Cisco-Security-Connector-for-iOS-Version-1-4-4> (no changes to Clarity.)

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**IMPORTANT!** This release of the Cisco Security Connector is available for devices running iOS 13.2 and higher.

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19 March 2020

## Cisco Security Connector 1.4.3

### Bugfixes/Enhancements

- Cisco Security Connector
  - Localization of UI to Korean, Traditional Chinese, Japanese, Russian, Italian, German, French, Spanish and Portuguese.
  - Dark mode support.
- Clarity
  - Improved secure communication between the Connector and AMP Cloud.
  - Network monitoring now includes flow direction (available with iOS 13).

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**IMPORTANT!** This release of the Cisco Security Connector is available for devices running iOS 13.2 and higher.

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17 March 2020

## AMP for Endpoints Console 5.4.20200317

### New

- Automated Action to isolate compromised endpoints.
- Added ability to stop endpoint isolation in bulk.

### Bugfixes/Enhancements

- Added support for AMP for Endpoints Android Connector 2.0 to Device Trajectory.
- Added more events for AMP for Endpoints Android Connector 2.0.
- Added policy settings to allow script protection to be turned off or run in audit mode.

## AMP for Endpoints Android Connector 2.0.0

### New

- Full native integration with the AMP Cloud.
- New UI design.
- Support for Android version 6.0 and above, including the latest Android 10.
- Supports activation of Google Play Store version of Connector for all regions.
- One-click configuration when downloaded from Google Play.
- Increased performance when scanning apps.
- Improved secure communication between the Connector and AMP Cloud.
- Supports SHA-256 fingerprint scanning.

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**IMPORTANT!** AMP for Endpoints Android Connector 2.0 does not support upgrading from v1.x. You must uninstall previous versions before installing 2.0.

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## AMP for Endpoints Windows Connector 7.2.3 (superseded by 7.2.5)

### New

- Improved secure communication between the Connector and AMP Cloud.

### Bugfixes/Enhancements

- Updated Connectivity Test Tool with new command line arguments and output.
- Script protection across the local endpoint, attached storage, and network.
- Fixed an issue where ClamAV was taking long time in scanning PDF files resulting into longer high CPU usage. (CSCvs33228)
- Addressed issue where Windows Connector would fail to upgrade when installed alongside BitDefender AV. (CSCvs58858)
- Fixed an issue with ClamAV where scanning a certain zip file was crashing Windows connector. (CSCvs34538)
- Resolved an issue where having %temp% path set to different drive than primary drive will fail the Windows Connector upgrade. (CSCvs62397)
- Updated ClamAV to 0.102.1, including changes related to the vulnerability described in CVE-2019-15961.

3 March 2020

- Resolved Exploit Prevention engine compatibility issues with the following applications:
  - CyberArk
  - Forcepoint Insider Threat
  - Diva Client
  - AppV
  - Outlook VBA Plugin
  - Universal Windows Platform apps
  - ArticaD
  - Macros In Excel 365
  - BIFIT signer plugin in Microsoft Internet Explorer

3 March 2020

## AMP for Endpoints Console 5.4.20200303

### Bugfixes/Enhancements

- Fixed a problem with some Mac and Linux Connector 1.12 installer packages that would leave new Connector installs unable to connect to the AMP Cloud. This issue only affects new Connector installs on an endpoint and does not affect Connector upgrades. Affected customers will receive a separate announcement that references CSCvt29571.
- Added more information to Automated Actions action log entries and a link to the event in Device Trajectory.
- CSV downloads from the Events page now include indicator tactics and techniques.
- Improved the operating system name entry in the computer panel to be more accurate. (CSCvo56525 & CSCvr29801)

26 February 2020

## AMP for Endpoints Mac Connector 1.12.2 (superseded by 1.12.7)

### Bugfixes/Enhancements

- Fixed an issue where deleting a file on a locally-hosted network share was incorrectly identified as an execute event.
- Fixed an issue where scripts were incorrectly identified as Mach-O files in execute events.
- Fixed an issue with process exclusion monitoring that could result in an ampdemon restart in certain scenarios.

18 February 2020

## AMP for Endpoints Linux Connector 1.12.2 (superseded by 1.12.7)

### New

- Added official support for Oracle Linux 7.7 Red Hat Compatible Kernel (RHCK). Oracle UEK is not supported.

### Bugfixes/Enhancements

- Fixed an issue where some rename operations would not trigger an on-access scan.
- Fixed a CentOS/RHEL 6 kernel panic from the redirfs kernel module that can occur when drives are frequently mounted and unmounted.
- Fixed a CentOS/RHEL 7 kernel panic from the ampfsm kernel module that can occur when unloading the kernel module while performing a rename operation (CSCvt13313).
- Fixed an issue with process exclusion monitoring that could result in an ampdemon restart in certain scenarios.

18 February 2020

## AMP for Endpoints Console 5.4.20200218

### New

- The Automated Actions page lets you set actions that trigger when compromise events at a specified severity level occur on Windows endpoints in selected groups. The initial release includes the ability to automatically generate Forensic Snapshots when a Windows endpoint with Orbital enabled is compromised. (Advantage package only)

### Bugfixes/Enhancements

- Orbital Advanced Search and Forensic Snapshots are now available in the AMP for Endpoints Windows Connector in APJC. (Advantage package only)

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**IMPORTANT!** Existing AMP for Endpoints customers can enroll to access Orbital Advanced Search and Forensic Snapshot for the remainder of their license period at no charge. Refer to this [FAQ](#) for further information.

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- The Indicators page has been updated with links to the Dashboard, Events, and Inbox tabs filtered to computers that observed the specific Cloud Indications of Compromise.
- Global search results now include Cloud Indications of Compromise, tactics, and techniques.

4 February 2020

- Cloud Indications of Compromise descriptions, including tactics and techniques, have been added to Device Trajectory, Dashboard, Inbox, and Events listings.
- Selecting an event in Device Trajectory highlights the entire activity line so you can more easily see which system the event relates to.
- The AMP for Endpoints Console UI has been updated to use a new look and feel.
- Connector filenames have been updated to take the format `amp_groupname.extension`.

4 February 2020

## AMP for Endpoints Console 5.4.20200204

### New

- A new Indicators page maps Cloud Indications of Compromise (IOCs) to the MITRE ATT&CK knowledge base of tactics and techniques. You can search the knowledge base by indicator name, tactics, and techniques.

23 January 2020

## AMP for Endpoints Linux Connector 1.12.1 (superseded by 1.12.7)

### Bugfixes/Enhancements

- Fixed a problem that could reduce the effectiveness of process exclusions in some situations.
- Fixed a situation that could add unnecessary delay in quarantining malicious files when the Cloud connection is unreliable. (CSCvs75040)
- Updated third-party libraries, including changes to libxml2 related to the following vulnerability:
  - CVE-2019-19956

## AMP for Endpoints Mac Connector 1.12.1 (superseded by 1.12.7)

### Bugfixes/Enhancements

- Report the Connector's unique hardware identifier as part of Connector registration.
- Fixed rare crash limited to 1.12.0 Mac Connector. (CSCvs61368)
- Fixed a situation that could add unnecessary delay in quarantining malicious files when the Cloud connection is unreliable. (CSCvs75040)

21 January 2020

- Performance improvements for systems with many repeating execute events.
- Improved handling of corrupt AMP kernel extension files detected on the system during install/upgrade.

21 January 2020

## AMP for Endpoints Console 5.4.20200121

### Bugfixes/Enhancements

- Forensic snapshots now include additional information.
- Added filtering for Endpoint Isolation to the audit log.

7 January 2020

## AMP for Endpoints Console 5.4.20200107

### New

- AMP for Endpoints is now available as two packages - AMP for Endpoints Essentials and AMP for Endpoints Advantage. Existing customers will become AMP for Endpoints Essentials customers and retain all current features and capabilities. Refer to this [FAQ](#) for further information.
- Orbital Advanced Search is now available on Windows in NAM and EU. (Advantage package only)

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**IMPORTANT!** Users who were enrolled in the Orbital Advanced Search beta must uninstall the beta Connector (6.5.1) and perform a clean install of AMP for Endpoints Windows Connector 7.1.5. Upgrading from the beta Connector to 7.1.5 is not supported.

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- Orbital Advanced Search can be used on computers with AMP for Endpoints Windows Connector 7.1.5 and higher.
- Forensic Snapshot is now available on Windows in NAM and EU. (Advantage package only)

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**IMPORTANT!** Existing AMP for Endpoints customers can enroll to access Orbital Advanced Search and Forensic Snapshot for the remainder of their license period at no charge. Refer to this [FAQ](#) for further information.

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17 December 2019

## AMP for Endpoints Windows Connector 7.1.5

### Bugfixes/Enhancements

- Fixed an Exploit Prevention engine issue that could cause Google Chrome v78 and later to crash or display a renderer code integrity error.
- Made stability improvements in the Connector installer.

16 December 2019

## AMP for Endpoints Linux Connector 1.12.0 (superseded by 1.12.7)

### New

- Improved Connector authentication when connecting to AMP Cloud services.

### Bugfixes/Enhancements

- Fix restart issue when scanning CIFS mounts with Kerberos authentication. (CSCvs45576)
- Updated ClamAV to 0.102.1, including changes related to the following vulnerability:
  - CVE-2019-15961

## AMP for Endpoints Mac Connector 1.12.0 (Superseded by 1.12.7)

### New

- Improved Connector authentication when connecting to AMP Cloud services.

### Bugfixes/Enhancements

- The "Connector requires reboot" fault is no longer raised on macOS 10.13 and 10.14.
- Updated fault remedy screens for macOS 10.15 Catalina full disk access and system extension faults.
- Reduced install time when using Active Directory/LDAP.
- Updated ClamAV to 0.102.1, including changes related to the following vulnerability:
  - CVE-2019-15961

10 December 2019

## AMP for Endpoints Console 5.4.20191210

### New

- Effective January 2020, Console Audit logs will contain 3 years of historical data.

5 December 2019

## AMP for Endpoints Windows Connector 7.1.1

### New

- Added support for the Windows 10 November 2019 Update (version 1909).
- Upgrading and uninstalling the Windows Connector no longer require a reboot under most conditions.

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**IMPORTANT!** No reboot upgrades only apply when upgrading from Connector version 7.x.x to a later version. While most upgrades will not require a reboot, there may be occasional instances where a reboot is still required.

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### Bugfixes/Enhancements

- Stability improvements in the Exploit Prevention engine.
- Endpoint Isolation improvements that fix sync issues between the Console and Connector.
- Stability improvement for the Protect driver.
- Addressed an Endpoint IOC engine crash for non-English versions of Windows (CSCvs09940).
- Updated curl to v7.66.0.
- Updated ClamAV to 0.101.4. This version addresses the following vulnerabilities:
  - CVE-2019-1010305
  - CVE-2019-12625
  - CVE-2019-12900
- Resolved Exploit Prevention engine compatibility issues with the following applications:
  - SAP SSO Addon
  - Microsoft Excel 2016
  - XLSLINK software
- During an Endpoint Isolation session if you enter the unlock code incorrectly 5 times you will not be able to make another attempt to unlock it again for 30 minutes.

26 November 2019

## AMP for Endpoints Console 5.4.20191126

### Bugfixes/Enhancements

- Demo Data computers now show the latest Connector version and supported Operating System. You must refresh Demo Data to see these changes.
- The Last Seen time for Demo Data computers now matches the time it was enabled or refreshed.
- Endpoint Isolation is now available on Demo Data computers. The group policy for the Demo Data computers must have Endpoint Isolation enabled. Endpoint Isolation is available for Windows Connector versions 7.0.5 and later.
- Redesigned Single Sign-On configuration page.

12 November 2019

## AMP for Endpoints Console 5.4.20191112

### New

- AV Definitions Threshold in the Business Settings page lets you configure a grace period for computers' AV definitions before they appear as out of date on the Computer Management page.
- There is a new option for the Last Seen filter: "Within 7 Days".
- You can use the Audit Logs API to retrieve audit logs.
- Added a new field called `av_update_definition` in the rest API response for single computer queries that include AV version and status values.

### Bugfixes/Enhancements

- Fixed a bug that prevented forensic snapshot files from downloading properly.

29 October 2019

29 October 2019

## AMP for Endpoints Console 5.4.20191029

### Bugfixes/Enhancements

- You can use wildcards when performing searches on the Computers page.

28 October 2019

## AMP for Endpoints Linux Connector 1.11.1

### New

- Added official support for RHEL/CentOS 7.7.
- Added kernel modules built with a Retpoline-enabled compiler for RHEL/CentOS 6.

### Bugfixes/Enhancements

- Fixed a rare crash on RHEL/CentOS 7 which could occur when monitored files on a network drive were removed. (CSCvr43285)
- Updated ClamAV to 0.101.4, including changes to address the following vulnerabilities:
  - CVE-2019-1010305
  - CVE-2019-12625
  - CVE-2019-12900

15 October 2019

## AMP for Endpoints Console 5.4.20191015

### New

- All links in the console for additional information about Common Vulnerabilities and Exposures (CVE) direct to the National Vulnerability Database at <https://nvd.nist.gov> instead of Cisco Security.
- Endpoint Isolation - A spinner in the UI indicates status changes in progress.
- The Business pages under the Accounts menu have been combined into a single Business Settings page.
- You can directly access License Information from the Accounts menu.

10 October 2019

#### Bugfixes/Enhancements

- Beta - Only administrators have access to Orbital policy. Unprivileged users cannot enable or disable Orbital.

10 October 2019

### AMP for Endpoints Mac Connector 1.11.1

#### New

- Added official support for macOS 10.15 Catalina. This release supports macOS 10.13, 10.14, and 10.15.

#### Bugfixes/Enhancements

- Updated ClamAV to 0.101.4, including changes related to the following vulnerabilities:
  - CVE-2019-1010305
  - CVE-2019-12625
  - CVE-2019-12900

8 October 2019

### AMP for Endpoints Windows Connector 7.0.5

#### New

- Endpoint Isolation is a feature that lets you block incoming and outgoing network activity on a Windows computer to prevent threats such as data exfiltration and malware propagation.
- System Process Protection notifications
  - are less verbose. (CSCvn41948)
  - are no longer sent when the process in question is excluded by process exclusions. (CSCvo90440)

1 October 2019

### BugFixes/Enhancements:

- A failing System Process Protection rule no longer prevents the Self Protect driver from starting.
- Endpoint indication of compromise (IOC) driver stops gracefully when uninstalling Windows Connector.
- Upgraded curl version to fix an integer overflow vulnerability in NTLM password authentication (CVE-2018-14618).
- Memory leak fixes and other stability improvements in the Self-Protect driver.
- Malicious Activity Protection engine no longer incorrectly detects Google Chrome.
- Windows Connector gathers the BIOS serial number more reliably when it is needed to detect hardware changes for registration with AMP Cloud.
- Windows Connector Crash is now handled by the Cisco Security Connector Monitoring Service (CSCMS) Server.
- Fixed an issue where currently running rootkit scans continued to run after the Connector service was stopped.
- Fixed incompatibility with Kaspersky Real-Time Engine.
- Improved stability of the Exploit Prevention engine.
- New certificate for the Early Launch Antimalware (ELAM) driver.
- Reduced false positives with the Malicious Activity Protection engine.
- Fixed issue where the support tool would sometimes fail to include all necessary files.
- Fixed a crash on shutdown issue.
- Windows Connector support package is now a ZIP file instead of 7zip so that Windows can natively unpack the support package.

1 October 2019

## AMP for Endpoints Console 5.4.20191001

### New

- Beta - Endpoint Isolation IP Allow lists: there is a new Endpoint Isolation IP Allow list type under **Outbreak Control > Network - IP Block & Allow Lists**.
  - IP lists with no ports and less than 200 IP addresses that are connected to Endpoint Isolation in policies will be migrated; IP lists that don't meet these criteria will not be migrated and will need to be recreated as Endpoint Isolation IP Allow lists and added to the Endpoint Isolation policy.
  - Policies and groups using the Endpoint Isolation IP Allow lists will appear in the IP List details panel. All new IP allow lists for Endpoint Isolation must be created using this new list type.

18 September 2019

### Enhancements

- Unprivileged users can now use Casebook and access the pivot menu next to their observables in the AMP console.
- Users now have the ability to delete a group using the REST API.
- Windows Connector engine notifications can now be easily hidden from the user on the endpoint. All engine notifications on the Windows Connector policy pages are condensed into one check box called **Engine Notifications**. The default for this feature is off. Note that If you previously hid one of the engine notifications, all engine notifications are now set to hidden.

18 September 2019

## AMP for Endpoints Windows Connector 6.3.7

### Bugfixes/Enhancements

- Fixed Exploit Prevention engine access violation issue which crashed the Connector.
- Resolved Exploit Prevention engine compatibility issues with the following applications:
  - Kronos ERP add-on (CSCvq76698)
  - ExOpen plug-in (CSCvq73086)
  - .NET applications (CSCvq74953)
  - Adobe Acrobat (CSCvq46250)

17 September 2019

## AMP for Endpoints Console 5.4.20190917

### New

- Beta - Details for computers show the recent isolation history and make it easier to find unlock codes when manually stopping isolation.
- Beta - A new version of the Connector (7.0.3) is available for download from the Endpoint Isolation section of the Beta page. The upgrade from 7.0.1 to 7.0.3 does not require a reboot to complete.

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**IMPORTANT!** To continue testing the Endpoint Isolation beta feature, you must install Connector 7.0.1 or 7.0.3 from the Beta Features page. See the Endpoint Isolation beta guide for full beta features and change details.

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3 September 2019

## AMP for Endpoints Console 5.4.20190903

### New

- Beta - New Endpoint Isolation policy setting: Allow DNS. See the Endpoint Isolation beta guide for details.
- Beta - New Endpoint Isolation policy setting: Allow DHCP. See the Endpoint Isolation beta guide for details.
- Beta - New Endpoint Isolation policy setting: Allow use with proxy. See the Endpoint Isolation beta guide for details.
- Beta - There is a link to the Endpoint Isolation overview video in the Inbox and the Beta Features page.

### Bugfixes/Enhancements

- Beta - Endpoint Isolation state stays synchronized between the Connectors and the console.
- Diagnostics button in Device Trajectory now works reliably.
- Fixed a bug where computers could be moved out of the beta group through the API.

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**IMPORTANT!** To continue testing the Endpoint Isolation beta feature, you must uninstall existing 6.5.1 Connectors and install the new beta Connector (7.0.1) from the Beta Features page. See the Endpoint Isolation beta guide for details.

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20 August 2019

20 August 2019

## AMP for Endpoints Console 5.4.20190820

### Bugfixes/Enhancements

- Beta - Simplified the Endpoint Isolation details that are displayed in Events page, Computers page, and Device Trajectory.

6 August 2019

## AMP for Endpoints Console 5.4.20190806

### New

- Beta - Users are notified that any ports specified in IP lists for Endpoint Isolation will have no effect. (All ports will be allowed.)

### Bugfixes/Enhancements

- Beta - Audit log entries for Endpoint Isolation are more consistent with other audit log entries.

23 July 2019

## AMP for Endpoints Console 5.4.20190723

### New

- Password changes are now processed through the Cisco Security Account page. Password complexity requirements have been updated as a result.
- Beta - Calls to start, stop, and retrieve Endpoint Isolation status are available in the API.
- Beta - Endpoint Isolation activity is now displayed in the audit log.
- Beta - Non-administrator users can be given permission to start, stop, and update Endpoint Isolation.

22 July 2019

## AMP for Endpoints Linux Connector 1.11.0

### New

- Added support for Process Exclusions. See [AMP for Endpoints: Process Exclusions in macOS and Linux](#) for more information.
- Added lightweight Linux-only ClamAV definition configuration option. See [AMP for Endpoints: ClamAV Virus Definition Options in Linux](#) for more information.

### Bugfixes/Enhancements

- Changed virus definition update download protocol from HTTP to HTTPS.
- Improved performance when processing execute-triggered scans.
- Improved performance on systems with multiple mount namespaces.
- Fixed incorrect known virus count in virus definition update event.
- Fixed install failure due to error creating new user group.
- Fixed memory leak affecting systems with low filesystem and network activity.
- Fixed memory leak that may occur after a detection event.
- Fixed memory leak that may occur after applying virus definition update.

## AMP for Endpoints Mac Connector 1.11.0

### New

- Added support for Process Exclusions. See [AMP for Endpoints: Process Exclusions in macOS and Linux](#) for more information.

### Bugfixes/Enhancements

- Improved detection events to include download source URL when available (CSCve69181).
- Changed virus definition update download protocol from HTTP to HTTPS.
- Fixed incorrect known virus count in virus definition update event.
- Fixed memory leak affecting systems with low filesystem and network activity.
- Fixed memory leak that may occur after a detection event.
- Fixed memory leak that may occur after applying virus definition update.
- Improved UI stability.
- Updated third party libraries.

18 July 2019

## AMP for Endpoints Android Connector 1.1.0

### New

- Built with more recent Android tools and SDK.
- Conforms to Android background execution limitations on Android 8.0 and later.
- Updated UI uses Cisco branding.

### Bugfixes/Enhancements

- Uninstall functionality now works on Android 9.0 and later.
- Initial Scan no longer fails on phones with Secure Containers (for example, Samsung Secure Folder).
- Initial scan for notification event and on-screen event are now in sync.
- Fixed native library error on Android 7.0 and later.
- Minor UI changes/fixes.

10 July 2019

## AMP for Endpoints Windows Connector 6.3.5

### BugFixes/Enhancements

- Fixed Cisco AMP for Endpoints crash on startup when Windows Management Instrumentation (WMI) service is disabled. (CSCvq39434)
- Improved Exploit Prevention engine with added protection against BlueKeep security vulnerability discovered in Microsoft's Remote Desktop Protocol. (CVE-2019-0708)
- Resolved Exploit Prevention engine compatibility issue with the following applications:
  - WIDOS Application
  - Micro Focus Unified Functional Testing (UFT) Application (CSCvq18773)
  - Insider Threat/Web Insider (CSCvq09279)

9 July 2019

## AMP for Endpoints Console 5.4.20190709

### Bugfixes/Enhancements

- Device Trajectory icons now show properly in the Chrome browser.

27 June 2019

- Command line capture text has been changed from green to gray to avoid confusion with process status text.
- IP list items with a CIDR block of /32 are displayed without the CIDR notation on the IP list edit pages.
- Fix to prevent attempting to create a snapshot on unsupported connectors.

27 June 2019

## AMP for Endpoints Windows Connector 6.3.3

### Bugfixes/Enhancements

- Fixed Cisco AMP for Endpoints Windows Command Injection Vulnerability (CVE2019-1932, CSCvp53361).
- Resolved compatibility issue with Kaspersky Real-Time Engine which prevented it from starting (CSCvq22483).
- Resolved Exploit Prevention engine compatibility issues with these applications:
  - Internet Explorer with VBScript running on local machine (CSCvo91932)
  - Adobe add-on PitStop Pro
  - Intel HD Graphics
  - Outlook add-on iManage
  - Excel plugin KuTools v19 - 64bit/32bit (CSCvq02201)
  - Nuance EditScript MT 11 (CSCvq02237)
  - Symantec PGP (CSCvq02223)
  - Symantec DLP Plugin (CSCvq02211)
  - SKYSEA Client (CSCvp84312)
  - AppV container

25 June 2019

## AMP for Endpoints Console 5.4.20190625

### New

- Two-step verification has been renamed to two-factor authentication.
- The button to notify a user to enable two-factor authentication is now located under Settings on the user account page.
- Beta - Endpoint Isolation start/stop events now display the user who triggers the event.
- Beta - Endpoint Isolation APIs have been added.
- Beta - Endpoint Isolation Status has been added as a filter to Computers page.
- Beta - Endpoint Isolation IP list size is now limited to 200 entries.

11 June 2019

#### Bugfixes/Enhancement

- Vulnerabilities API endpoint queries now return results filtered by an inclusive start date and an exclusive end date.
- Calling the REST API with invalid JSON will now return a 400 error code.

11 June 2019

### AMP for Endpoints Console 5.4.20190611

#### New

- Vulnerabilities API now enables you to filter by group GUID.
- Vulnerabilities API now enables you to get a list of computers with a specific vulnerable application by passing the SHA-256 of the application.
- The SHA-256 field for Mac and Linux Process exclusions has been removed to improve performance.
- Beta - Endpoint isolation details are now displayed in Device Trajectory.
- Beta - Trajectory API now displays endpoint isolation events.

#### Bugfixes/Enhancements

- Vulnerabilities API calls now honor AMP RBAC.
- Deleting exclusions from an exclusion set now appears in the audit log.

28 May 2019

### AMP for Endpoints Console 5.4.20190528

#### New

- Users can now create an IP list by uploading a CSV file containing IP addresses/CIDR blocks.
- Added a REST API for querying vulnerabilities observed in the last 30 days.

#### Bugfixes/Enhancements

- Fixed issue where some buttons were inaccessible when using Internet Explorer.
- Improved validation messages for errors when entering multiple IP addresses.

14 May 2019

## AMP for Endpoints Console 5.4.20190514

### New

- Users can now edit and manage their IP lists in the console.
- Added support in Windows policies for new file types for cloud lookup (changes will take effect on next update to policy):
  - 7ZSFX
  - XML\_WORD
  - XML\_XL
  - XML\_HWP (Hangul)
  - HWP3 (Hangul)
  - OOXML\_HWP (Hangul)
  - HWPOLE2 (Hangul)
  - MBR

7 May 2019

## AMP for Endpoints Windows Connector 6.3.1

## New

- Added support for Windows 10 May 2019 Update (Version 1903) (Preview build: 18362.53).
- New Cisco Anti-Malware Protected Process Light (AM-PPL) services “Cisco Security Connector Monitoring Service(CSCMS)” to register with WSC on Windows 10 19H1 and beyond.
- New installer command line switch to skip registration and startup of Connector in order to use the Windows operating image as a deployable golden image:
  - /gol deny mage = 1 (Skip initial Connector registration and startup on install)
  - /gol deny mage = 0 (Do not skip initial Connector registration and startup on install)
- Now supports scanning Windows shortcut (.lnk) and RAR5 compressed file types.

## Bugfixes/Enhancements

- Fixed BSOD caused when Connector, under some circumstances, incorrectly requests a file to be quarantined from a different volume than where it was originally detected. (CSCvo11650)
- Fixed incompatibility with MS Sysprep.
- Connector now supports launching the AMP UI from WSC, and also shows statuses. (CSCvo61707)
- Windows Connector Installer can now handle special characters in the install path. (CSCvk54455)
- Windows Connector no longer protects itself when the Connector service is set to ‘disable’, thereby allowing users to modify the Connector’s service status. (CSCvj72318)
- Fixed logic around deleting quarantine files that exceed the TTL and have already been deleted. (CSCvo00165)
- Added a new check for the end-of-file on non-Microsoft file systems which will prevent a custom app from hanging when running through a network share with Windows Connector installed.
- Stopped Malicious Activity Protection (MAP) from monitoring network drives (CSCvo32112)
- Addressed an issue where the Connector could cause a BSOD in MAP driver under rare conditions (CSCvp03825)
- Fixed Exploit Prevention engine from blocking Windows 10 updates
- Resolved Exploit Prevention engine compatibility issue with below applications
  - MS Excel plugin Aspen
  - Fasoo DRM

7 May 2019

- Trusteer Rapport
- Ivanti application
- MS Excel plugin ResQ
- TAVOS Taxport web app
- MalwareBytes AV
- Java installer.
- Update ClamAV to 0.101.2, including addressing below security vulnerabilities
  - CVE-2019-1787
  - CVE-2019-1788
  - CVE-2019-1789
- Enhanced IDSync logic to prevent Windows Connector from falling back to the default group (CSCvo23266)

30 April 2019

#### AMP for Endpoints Mac Connector 1.10.2

##### Bugfixes/Enhancements

- Reduced CPU usage by optimizing file scan algorithm.
- Reduced error log messages when file scan processing queue is full.
- Fixed memory leak when disconnected from the Cisco Cloud.
- Improved handling of file activity from system processes like Spotlight.

25 April 2019

## AMP for Endpoints Console 5.4.20190430

### New

- Changed IP List types to Blocked and Allowed lists.

### Bugfixes/Enhancements

- Fixed a bug to improve load times on the AV Definition Summary page.

25 April 2019

## AMP for Endpoints Linux Connector 1.10.2

### Bugfixes/Enhancements

- Reduced CPU usage by optimizing file scan algorithm.
- Reduced error log messages when file scan processing queue is full.
- Fixed memory leak when disconnected from the Cisco Cloud.

17 April 2019

## AMP for Endpoints Console 5.4.20190417

### New

- You can now view and configure quarterly reports in addition to monthly and weekly reports. Quarterly reports aggregation is based on calendar quarters.
  - The first default (System-defined) quarterly report will be available in July 2019.
  - Threat Severity graphs won't be available until July 2019 because the feature needs to collect a quarter's worth of data.

## AMP for Endpoints Mac Connector 1.10.1

### New

- Added RARv5 archive extraction support.

### Bugfixes/Enhancements

- Updated ClamAV to 0.101.2, including changes related to these vulnerabilities:
  - CVE-2019-1787
  - CVE-2019-1788
  - CVE-2019-1789
- Delete stale ClamAV temporary files when file scan terminates abnormally (CSCvo74969).
- Fixed incompatibility with macOS 10.14.3 audit policy changes.
- Fix intermittent file scan failure if debug logging has been enabled for a long time.

## AMP for Endpoints Linux Connector 1.10.1

### New

- Added RARv5 archive extraction support.

### Bugfixes/Enhancements

- Updated ClamAV to 0.101.2, including changes related to these vulnerabilities:
  - CVE-2019-1787
  - CVE-2019-1788
  - CVE-2019-1789
- Delete stale ClamAV temporary files when file scan terminates abnormally (CSCvo74969).
- Fix intermittent file scan failure if debug logging has been enabled for a long time.

2 April 2019

## AMP for Endpoints Console 5.4.20190402

### New

- Leaving the “Event Type” field blank in the event stream API will now stream all Event Types.

26 March 2019

## AMP for Endpoints Linux Connector 1.10.0

### New

- Connector now runs ClamAV file scans using an unprivileged process. A new cisco-amp-scan-svc user will be created by the installer.
- Added CLI command `/opt/cisco/amp/bin/ampcli defupdate` to initiate ClamAV definition update.
- Connector now reports a fault when filesystem monitor or network monitor fails to start (CSCvm10710).

### Bugfixes/Enhancements

- Fixed scheduled full scan incorrectly processed as single file scan (CSCvn36511).
- Fixed memory leak when updating cached mount table (CSCvo35582).
- Fixed issue where CPU usage may remain high even after stopping AMP service.
- Fixed RedirFS-related kernel panics (CSCvj44170, CSCvo74991).
- Fixed incorrect exclusion on devtmpfs from on-access scan.
- Fixed Connector status may be stuck at "Offline" after system time change.
- Fixed unintended quarantine when a retro quarantine request is received in Audit mode.
- Update third-party libraries, including changes related to these vulnerabilities:
  - Curl:
    - CVE-2018-16840
  - CiscoSSL:
    - CVE-2018-0732
    - CVE-2018-0737
    - CVE-2018-5407
  - SQLite:

- CVE-2018-20346

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**IMPORTANT!** We recommend that you reboot RHEL/CentOS 6.x computers after upgrading so that the updated RedirFS kernel module can be loaded. The Connector will not force the computer to reboot but the computer will remain susceptible to the defects that can cause kernel panic (CSCvj44170, CSCvo74991) until after reboot.

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## AMP for Endpoints Mac Connector 1.10.0

### New

- Connector now runs ClamAV file scans using an unprivileged process. A new cisco-amp-scan-svc user will be created by the installer.
- Enabled PCRE definitions in ClamAV.
- Added menu item and CLI command `/opt/cisco/amp/ampcli defupdate` to initiate ClamAV definition update.

### Bugfixes/Enhancements

- Fixed scheduled full scan incorrectly processed as single file scan (CSCvn36511).
- Fixed Connector status may be stuck at "Offline" after system time change.
- Fixed unintended quarantine when a retro quarantine request is received in Audit mode.
- Reduced overhead on system, especially when compiling software.
- Fixed memory leak when reading certificates from config.
- Fixed missing log messages for file-op command line logging.
- Updated third-party libraries, including changes related to these vulnerabilities:
  - Curl:
    - CVE-2018-16840
  - CiscoSSL:
    - CVE-2018-0732
    - CVE-2018-0737
    - CVE-2018-5407

19 March 2019

## AMP for Endpoints Console 5.4.20190319

### New

- There is now a link to the release notes in the console's help.
- The following events are now hidden to reduce the number of extraneous events visible to the user.
  - Quarantine Item Deleted
  - Failed to Delete from Quarantine
  - Attempting Quarantine Delete
- Users can now mute selected compromise artifacts and event types organization-wide to reduce the amount of information that needs to be reviewed in the console.

### Bugfixes/Enhancements

- Threat severity information will now be visible in monthly reports generated from April 1, 2019 and on.

5 March 2019

## AMP for Endpoints Console 5.4.20190305

### New

- Users can now select which types of announcements to receive through email notifications by clicking the **Announcement Email Preferences** link.

### Bugfixes/Enhancements

- The date picker on the Policies page for configuring update windows and the filter on the Audit Log page has been updated with a calendar-style interface.
- Email announcements now arrive more quickly after subscribing.

21 February 2019

## AMP for Endpoints Windows Connector 6.2.19

### New

- This release contains all fixes up to and including 6.2.9 in addition to an experimental engine that inspects and acts on URL telemetry. There are potential compatibility issues with other security products. As such, the engine is configured to be disabled by default. Please contact Cisco TAC for more information.

20 February 2019

## AMP for Endpoints Console 5.4.20190220

### New

- A summary of metrics is now displayed at the top of the Computers page.
- You can now filter the computer list by operating system by selecting the respective tab on the Computers page.

### Bugfixes/Enhancements

- When sending a file for analysis, the first choice on the drop-down list is now the operating system of the default VM selected on the Business page (CSCvn82732).

19 February 2019

5 February 2019

## AMP for Endpoints Windows Connector 6.2.9

### Bugfixes/Enhancements

- Addressed an issue where the Connector could cause Blue Screen of Death (BSOD) under rare conditions (CSCvo24869).
- Improved evaluation of System Process Protection (SPP) event notifications.

5 February 2019

## AMP for Endpoints Console 5.4.20190205

### Bugfixes/Enhancements

- The navigator in Device Trajectory can now be collapsed and expanded.
- Improved compatibility of the default Exploit Prevention engine configuration with Microsoft Office 365.
- When creating diagnostics for iOS devices, iOS-specific options now appear in the dialog.
- Events page now shows the correct time range type in the filter when redirected from Overview.
- On the Inbox page, clicking the Reset button now correctly sets the time period to the default.

29 January 2019

## AMP for Endpoints Windows Connector 6.2.5 (Superseded by 6.2.9)

### Bugfixes/Enhancements

- Addressed System Process Protection (SPP) event notification issue which was being triggered under certain conditions, even if the SHA-256 is allow listed (CSCvn41948).
- Improved hash calculation process to prevent deadlock under certain conditions (CSCvn99024).
- Fixed System Process Protection (SPP) exclusions issue which was triggering event notifications for certain processes, even if they are excluded via process exclusion (CSCvn30222).
- Improved evaluation of System Process Protection (SPP) event notifications.
- Fixed issue in Malicious Activity Protection (MAP) engine which caused the computer to freeze or crash after starting Visual Studio in debug mode (CSCvn52070).
- Improved Exploit Prevention engine to prevent deadlock during initialization in rare cases.
- Resolved Exploit Prevention engine compatibility issue with the below applications:
  - Skype Meetings App
  - IPFX plug-in for Outlook
  - MS PowerPoint Presentations (CSCvn69111)
  - Litera ChangePro add-on for Outlook
  - RDP (RD web access)
  - Eden add-on for Outlook (CSCvg00086)
  - Trend Micro

24 January 2019

24 January 2019

## Cisco Security Connector 1.4.0

### Bugfixes/Enhancements

- Improved visibility with TOR browsers in active block mode.

22 January 2019

## AMP for Endpoints Console 5.4.20190122

### New

- New Device Trajectory interface with navigator for quickly pinpointing events. Non-SHA-256 searches will return results in the legacy Device Trajectory interface.

### Bugfixes/Enhancements

- In the Overview tab, if there is no compromise data available yet, the page will display a high level cloud query count.

8 January 2019

## AMP for Endpoints Console 5.4.20190108

### New

- When editing Windows exclusion sets, there is now a check box to apply the wildcard exclusion to all drive letters.
- It is now possible to opt out of Cisco Maintained Windows and Mac Default Exclusions (at the risk of negatively impacting performance).
- In the Overview tab, users can click individual items in each section to navigate directly to relevant pages in the console.

20 December 2018

#### Bugfixes/Enhancements

- Specified paths in process exclusions for Windows may no longer end in a path separator (backslash).

20 December 2018

### AMP for Endpoints Windows Connector 6.1.9

#### Bugfixes/Enhancements

- Addressed defects in Exploit Prevention module.

11 December 2018

### AMP for Endpoints Console 5.4.20181211

#### New

- Users can now choose specific date ranges instead of only predefined ranges with the date/time picker on the Dashboard, Inbox, and Overview tabs.

#### Bugfixes/Enhancements

- The File Analysis section is available on the Overview tab even if automatic file analysis has not been set up.
- Data for both manual and automatic submissions in the Threat Grid Submission count are available on the Overview tab.
- CSIDL values with wildcards can now be added to Custom Exclusions.

6 December 2018

## AMP for Endpoints Windows Connector 6.2.3

### New

- Added support for Windows Server 2019 RTM.
- Added support for Windows 10 October 2018 Update (Version 1809) RTM.

### Bugfixes/Enhancements

- Fixed Exploit Prevention Engine incompatibility with Office 365 32-bit on Windows 10 October 2018 Update (Version 1809) (CSCvn54432).
- Addressed defects found in Exploit Prevention module.
- Exploit Prevention engine now sends detection notifications for VBScript attacks.

4 December 2018

## AMP for Endpoints Linux Connector 1.9.1

### New

- RHEL/CentOS 7.6 is now officially supported.

### Bugfixes/Enhancements

- Fixed a bug which caused segmentation faults in RHEL/CentOS 7.5 (CSCvn39498).
- Fixed a bug where files renamed or moved to a non-root mount are not always scanned.

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**IMPORTANT!** RHEL/CentOS 7.5 systems must be rebooted to complete the upgrade to Linux Connector 1.9.1.

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27 November 2018

## AMP for Endpoints Console 5.4.20181127

### New

- Added Cisco-Maintained Exclusions to the Exclusions page to allow more granular control of application-specific exclusions for certain applications. You can now add both Cisco-Maintained Exclusions and your Custom Exclusions to policies.
- Connector Diagnostics allow you to remotely request a support package from a computer. Requested diagnostic files will be available in the File Repository, so you must have Two-step verification and Remote File Fetch enabled to use this feature.

### Bugfixes/Enhancements

- Added the ability to search by SHA-256 in Device Trajectory v2 beta.

13 November 2018

## AMP for Endpoints Console 5.4.20181113

### New

- Redesigned Overview tab displays the status of your environment and highlights recent threats and malicious activity in your AMP for Endpoints deployment. You can click on the headings of each section to navigate directly to relevant pages in the console to investigate and remedy situations.
- Added new Custom Cisco Security Connector configuration policy for MobiConnect MDM support.
- Threat severity provides quick insight into the most important compromises and is now visible in the Dashboard, Inbox, and Event tabs. Threat severity also appears in exported CSV reports, CTA events, subscription email, and the streaming API.

6 November 2018

## AMP for Endpoints Windows Connector 6.2.1

### New

- System Process Protection engine detections now generate Console events and Windows Event Viewer messages.
- The Exploit Prevention engine now includes:
  - 64-bit process support.
  - Process-hollowing protection.
  - Adware injection protection.
- Added support for Windows Server 2019 [Preview build 17744].
- Added support for Windows 10 October 2018 Update (Version 1809) [Preview build 17758].

### Bugfixes/Enhancements

- Includes mitigation for the Windows DLL preloading vulnerability (CVE-2018-15452) (CSCvm93525).
- Address Scanning Denial of Service Vulnerability (CVE-2018-15437) (CSCvk70945).
- Increased Connector installer resource size to accommodate large policies (CSCvk03811).
- Multiple Exploit Prevention detection engine fixes and performance improvements [CSCvi60967].
- Improved Identity Sync to prevent duplicate Connectors in the Console and dropping to the default group [CSCvi92800].
- Support tool is more stable now and supports long file paths [CSCvh97231].
- Malicious Activity Protection (MAP) engine performance improvements [CSCvm37593].
- Limits number of quarantined items to reduce quarantine folder growth [CSCvk22403].
- Fixed Windows Security Centre (WSC) registration issue around TETRA settings.
- Added Postscript file type scanning support.
- Enhanced kernel logging.
- Improved performance of Process Exclusions.
- Exploit Prevention events will now contain parent process information.
- Fix to mitigate Connector high CPU usage.
- Fixed a bug where duplicate Connectors were created when cloning a virtual machine.
- Improved performance of Support Diagnostic Tool.

25 October 2018

## AMP for Endpoints Linux Connector 1.9.0

### New

- Added official support for RHEL/CentOS 6.10.
- File scan operations are now run as an independent process.

### Bugfixes/Enhancements

- Improved handling of mount namespaces with shared subtrees.
- ClamAV definition information is now displayed in the CLI.
- Reduced demand on kernel memory when running on RHEL/CentOS.
- Reduced ampnetworkflow logging.
- Improved stability of Cloud network connections.
- Improved tracking and reporting of Connector faults.
- Improved descriptions for Connector events reported in the CLI.
- Update third-party libraries, including changes related to these vulnerabilities:
  - **ClamAV:**
    - CVE-2018-0360
    - CVE-2017-16932
    - CVE-2018-14679
    - CVE-2018-0361
    - CVE-2018-15378
    - CVE-2018-14680
    - CVE-2018-14681
    - CVE-2018-14682
  - **SQLite:**
    - ORDER BY LIMIT fix:  
<http://www.sqlite.org/cgi/src/info/9936b2fa443fec03ff25>
  - **XML2:**
    - CVE-2018-14404

24 October 2018

## AMP for Endpoints Mac Connector 1.9.0

### New

- Added official support for macOS 10.14 Mojave. This release supports macOS 10.12, 10.13, and 10.14.
- Added support for user data protection in macOS 10.14.
- Added Apple notarization to Connector install package.
- File scan operations are now run as an independent process.
- The installer is now packaged using the Disk Image (.dmg) file format.

### Bugfixes/Enhancements

- ClamAV definition information is now displayed in CLI and menulet.
- Improved stability of Cloud network connections.
- Improved tracking and reporting of Connector faults.
- Improved descriptions for Connector events reported in the CLI and history pages.
- Added filter for network events in the Event list.
- Reduced volume of NetworkFlowLib logs generated in some situations.
- Improved execute monitoring performance.
- Clicking on a fault in the menulet now opens the relevant System Preferences.
- Updated menulet status icons.
- Updated third-party libraries, including changes related to these vulnerabilities:
  - **ClamAV:**
    - CVE-2018-0360
    - CVE-2017-16932
    - CVE-2018-14679
    - CVE-2018-0361
    - CVE-2018-15378
    - CVE-2018-14680
    - CVE-2018-14681
    - CVE-2018-14682
  - **SQLite:**
    - ORDER BY LIMIT fix  
<http://www.sqlite.org/cgi/src/info/9936b2fa443fec03ff25>
  - **XML2:**
    - CVE-2018-14404

16 October 2018

## AMP for Endpoints Console 5.4.20181016

### New

- A single report listing on the Computers page discloses the computers running macOS in your environment that require attention because of a fault state and the amount of interaction required to resolve it.

### Bugfixes/Enhancement

- Performance of the AV Definition Summary page has been improved.
- The Exploit Prevention engine no longer produces excessive log entries.

5 October 2018

## Cisco Security Connector 1.3.0

### Bug Fixes/Enhancements

- Report UDP and QUIC network flows (requires iOS 12).
- Added support to identify and block access to translated (NAT64) IPv4 address on IPv6 cellular networks.
- Added iOS 12-style grouped notifications.

18 September 2018

## AMP for Endpoints Console 5.4.20180918

### New

- There is now a tutorial page for Casebook and the Pivot Menu to welcome users when they authorize Casebook.
- A new Threat Severity display in Inbox can now be enabled through the Beta Features page. With Threat Severity enabled, you can view color-coded events and bar graphs to quickly assess the most important compromises.
- It is now possible to enter or paste a list of multiple exclusions to add to exclusion sets.

### Bugfixes/Enhancements

- “Generic IoC” events are now named “Cloud IoC” events.
- Visibility has been rebranded to Cisco Threat Response.

12 September 2018

- Added new Custom Cisco Security Connector configuration policy for MaaS360 MDM support.
- Added computer list field to the Last Seen API.

12 September 2018

## AMP for Endpoints Linux Connector 1.8.4

### Bugfixes/Enhancements

- Fixed a procfs-related memory consumption issue that could lead to an out of memory error (CSCvm42255).
- Changed server authentication to align with the Red Hat ca-certificates package update.
- Improved network flow monitor kernel module logging.

21 August 2018

## AMP for Endpoints Console 5.4.20180821

### New

- You can now add MDMs other than Meraki, Airwatch or MobileIron.
- New Pivot Menu when Casebook is enabled provides access to features from integrated Advanced Threat Solutions.

### Bugfixes/Enhancements

- Improved performance on Exclusions page with exclusion sets that exceed 300 exclusions.

9 August 2018

## Cisco Security Connector 1.2.0

### Bugfixes/Enhancements

- Improved Clarity problem reporting. Reporting a problem with Clarity no longer requires an email account on the device and problem report snapshots are now available in the AMP File Repository.
- Added the ability to turn on malicious detection notification on the iOS device. Clarity will display an alert on the device when a malicious network connection is detected or blocked if this is turned on via Connector policy.

26 July 2018

## AMP for Endpoints Mac Connector 1.8.1

### Bugfixes/Enhancements

- Fixed a bug introduced in 1.8.0 that could cause the AMP service to restart unexpectedly.

---

**IMPORTANT!** We strongly advise Mac Connector 1.3.0 users to upgrade to 1.3.1 then reboot the system before upgrading to 1.8.1. Upgrading directly from 1.3.0 to 1.8.1 may cause a kernel panic.

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**IMPORTANT!** If your Connectors are deployed with Mac Connector v1.8.0, we recommend upgrading to v1.8.1. If you previously disabled the command line capture feature due to the v1.8.0 announcement regarding Connector restarts, you can re-enable the command line capture feature after completing the upgrade.

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## AMP for Endpoints Linux Connector 1.8.1

### Bugfixes/Enhancements

- Fixed RedirFS kernel panic affecting some RHEL/CentOS 6.x computers. (CSCvj44170)
- Updated support tool to include SELinux configuration within output archive.

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**IMPORTANT!** We recommend that you reboot RHEL/CentOS 6.x computers after upgrading so that the updated RedirFS kernel module can be loaded. The Connector will not force the computer to reboot, but the computer will remain susceptible to the defect that could cause kernel panic (CSCj44170) until after reboot.

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24 July 2018

## AMP for Endpoints Console 5.4.20180724

### New

- You can now view and configure monthly reports in addition to weekly reports.
- You can now view all the changes previously made to custom report configurations.
- This release introduces a new UI for Exclusions.

11 July 2018

- Official support of Internet Explorer 10 ends on July 25, 2018. Use the latest supported version of your preferred browser for the best compatibility.

## Bug Fixes/Enhancements

- Definitions Last Updated no longer indicates that it has failed after the Connector error has been cleared.

11 July 2018

## AMP for Endpoints Mac Connector 1.8.0 (Superseded by 1.8.1)

### Bug fixes/Enhancements

- Fixed a kernel panic on macOS 10.12 when accepting TCP connections from malicious hosts. (CSCvk08192)
- Disabled unsupported command line capture when running on OS X 10.11 and earlier.
- Improved command line capture with macOS 10.12.4 and later.
- Improved Support Tool command line arguments, descriptions, and optimized data collected when generating a support snapshot.
- Improved file execute activity monitoring to ensure appropriate SHA value generation.
- Corrected display of policy information when Connector starts without network connection.
- Updated third party libraries including changes related to these vulnerabilities (CSCvj56731):
  - **ClamAV:**
    - CVE-2017-12380
    - CVE-2017-12379
    - CVE-2017-12378
    - CVE-2017-12377
    - CVE-2017-12376
    - CVE-2017-12375
    - CVE-2017-12374
    - CVE-2017-11423
    - CVE-2018-0361
    - CVE-2018-0360
  - **Curl:**
    - CVE-2018-1000300
    - CVE-2018-1000301
    - CVE-2018-1000122
    - CVE-2018-1000121

10 July 2018

- CVE-2018-1000120
- **SQLite:**
  - CVE-2018-8740

10 July 2018

## AMP for Endpoints Windows Connector 6.1.7

### Bug Fixes/Enhancements

- Fixes for multiple ClamAV vulnerabilities:
  - CVE-2018-0360
  - CVE-2018-0361
- Addressed an issue where the Malicious Activity Protection (MAP) engine could cause a Blue Screen of Death (BSOD) under rare conditions. (CSCvk30812)

28 June 2018

## AMP for Endpoints Linux Connector 1.8.0

### New

- Added official support for RHEL/CentOS 7.5.

### Bug fixes/Enhancements:

- Fixed incorrect policy information being displayed when Connector starts up without network connection.
- Clarified Connector command line interface (CLI) text related to Audit mode detections.
- Improved Support Tool command line arguments, descriptions, and optimized data collected when generating a support snapshot.
- Changed monitoring behavior for filesystem and network activity in guest containers. (CSCvj20583)
- Updated third party libraries including changes related to these vulnerabilities (CSCvj56731):
  - **ClamAV:**
    - CVE-2017-12380
    - CVE-2017-12379
    - CVE-2017-12378
    - CVE-2017-12377
    - CVE-2017-12376
    - CVE-2017-12375

- CVE-2017-12374
- CVE-2017-11423
- CVE-2018-0361
- CVE-2018-0360
- **Curl:**
  - CVE-2018-1000300
  - CVE-2018-1000301
  - CVE-2018-1000122
  - CVE-2018-1000121
  - CVE-2018-1000120
- **SQLite:**
  - CVE-2018-8740

26 June 2018

## AMP for Endpoints Console 5.4.20180626

### New

- MSSP clients can now transition to a Licensed Customer and vice versa.
- Added AV Definition Summary page to view recent AV updates under the Management tab.
- Added Visibility Casebook, enabling investigators to improve their analysis of file hashes, IPs, domains, log entries, etc. and submit entire cases to Visibility.

### Bugfixes/Enhancements:

- The most recent Dashboard view is now saved. Users can navigate away and return to the dashboard and be presented with the same view.
- Added classifications to Exploit Prevention events on the Events page, Device Trajectory, and API.
- Monthly Reports page now has a column structure.
- Monthly Reports now contain the following sections:
  - Detections and Quarantines
  - Network Detections
  - Application Blocks
  - Threat Root Cause
- Added support for activity filtering in the Device Trajectory v2 Beta.
- Performance improvements to CSV export times on the Computers page.
- Performance improvements to search times relating to iOS activity.
- Improved accuracy of AV definition update status.
- Removed Heat Map from Dashboard page.
- Improved error reporting for Connector Fault events.

14 June 2018

## AMP for Endpoints Windows Connector 6.1.5 (superseded by 6.1.7)

### New

- New Malicious Activity Protection (MAP) engine for detecting ransomware has been added.
- Added support for Windows 10 April 2018 Update (Version 1803).

### Bug fixes/Enhancements:

- The Connector Protection password functionality has been improved to provide a more secure mechanism for storing passwords locally. (CVE-2017-12317)

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**IMPORTANT!** Each business is required to opt-in through the AMP Console in order to upgrade to the new password protection schema before using the new Windows Connector Protection password feature.

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- Improved rootkit scanning of hidden files. (CSCvg59928)
- Enhanced TETRA file detection parsing. (CSCvh54783, CSCvh77705)
- Improved Windows Connector UI to support high DPI displays. (CSCvh21699)
- Improved detection to include VBS file types. (CSCvi24388)
- Addressed various local.xml corruption issues under certain circumstances. (CSCvi90827)
- Enhanced scanning of larger files on execution.
- Addressed an issue where the Windows Connector service does not automatically start within certain virtualized environments.
- Support Tool now collects Windows Event logs.
- Fixed an issue where long Connector protection passwords resulted in truncated arguments being sent to the uninstaller.
- Reduced the frequency of disk write activity by limiting local.xml updates
- Patched Clam AV vulnerability and multiple memory leak issues (CVE-2018-1000085)
- Addressed an issue where the installer would not complete successfully under certain circumstances
- Multiple Improvements and fixes to the Exploit Prevention engine.

24 May 2018

24 May 2018

## AMP for Endpoints Console 5.4.20180524

### New

- A redesign of Device Trajectory can be enabled through the Beta Features page.
- Beta monthly reports are available. These will be automatically generated at the end of each month.
- New policy settings are available for the Clarity module in the Cisco Security Connector for iOS. Blocking and Active Blocking modes are available for Network Convictions and user-defined IP Lists can be added to policies.
- New default Audit and Protect Clarity policies have been added.
- New network detection events for Clarity are available in Device Trajectory, Mobile App Trajectory, and Events.

### Bugfixes/Enhancements

- Improved reporting and filtering for Connector AV update status on the Computers page.
- Added the ability to search by device serial number (DSN) for iOS devices.
- Added Content Alerts and summary boxes to iOS Clarity Dashboard tab.
- Non-administrator users can create, edit, and delete custom weekly reports for the groups they have access to.

## Cisco Security Connector 1.1.0

### New

- Added support for user-defined IP block lists and allow lists.
- Added support to allow Blocking and Active Blocking for Network Convictions obtained from both Cisco and custom IP lists.

24 April 2018

## AMP for Endpoints Console 5.4.20180424

### Bugfixes/Enhancements

- Renamed AMP Visibility to Visibility in context menus.
- Improved user experience when creating Custom Reports.
- Fixed an error that could be encountered while configuring Scheduled Scans. (CSCvj04576)

17 April 2018

- Improved error messaging for expired CSV export files.
- Removed access to legacy Reports.
- Made improvements to reduce the amount of time it takes for Demo Data to populate.
- Added a control for automated crash dump uploads to AMP for Endpoints Mac Connector policies.

17 April 2018

## Cisco Security Connector 1.0.8

### New

- New Connector supports Apple iOS 11.3 and higher.
- Includes auditing of network connections made by applications on iOS devices through the Clarity module in AMP for Endpoints.
- Can provide DNS filtering of malicious websites through the [Umbrella](#) module.

## AMP for Endpoints Console 5.4.20180416

### New

- iOS Clarity tab on the Dashboard provides access to the new Cisco Security Connector features such as App Trajectory and tracking of App usage through Recently Observed Apps.
- MDM Integration settings added to the Accounts > Business page.

3 April 2018

## AMP for Endpoints Console 5.4.20180403

### New

- You can now create custom reports of selected groups of computers.

### Bugfixes/Enhancements

- CSV Export now occurs in the background and sends an email containing a link to download the CSV file.

28 March 2018

## AMP for Endpoints Mac Connector 1.7.0

### New

- ClamAV virus definition file versions are now displayed.

### Bugfixes/Enhancements

- Reduced disk write activity. (CSCvd15950)
- Reduced the number of duplicate network detection events sent.
- Enhanced scanning of larger files on execution.
- Improved formatting of information in the UI.
- Added SupportTool option for specifying maximum size of output archive.
- Reclassified error messages that can be logged frequently under normal operation.
- Updated third party libraries.
- Patched ClamAV vulnerabilities:
  - CVE-2018-1000085
  - CVE-2012-6706
  - CVE-2017-6419
  - CVE-2017-6418
  - CVE-2017-6420
  - CVE-2018-0202

## AMP for Endpoints Linux Connector 1.7.0

### New

- ClamAV virus definition file versions are now displayed.

### Bugfixes/Enhancements

- Fixed installation failure when the system temporary directory is mounted without execute permission.
- Fixed issue where the system may hang during start up due to kernel module conflict.
- Reduced disk write activity.
- Reduced the number of duplicate network detection events sent.
- Enhanced scanning of larger files on execution.
- Removed CLI history file from user home directory on full uninstall.
- Added SupportTool option for specifying maximum size of output archive.
- Improved the handling of network mounted drives by the SupportTool.
- Improved CLI display formatting.
- Reclassified error messages that can be logged frequently under normal operation.
- Updated third party libraries.
- Patched ClamAV vulnerabilities:
  - CVE-2018-1000085
  - CVE-2012-6706
  - CVE-2017-6419
  - CVE-2017-6418
  - CVE-2017-6420
  - CVE-2018-0202

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**IMPORTANT!** ClamAV definitions for Linux and macOS may appear as out of date in the AMP for Endpoints Console, even though the Connector has downloaded the latest definitions available. This issue will be addressed in a future release.

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27 March 2018

### AMP for Endpoints Console 5.4.20180227

#### New

- Updated weekly reports with new summary for Vulnerabilities.

#### Bugfixes/Enhancements

- Improved API performance.

12 March 2018

### AMP for Endpoints Windows Connector 6.0.9

#### New

- Added support for Windows Server 2016.

#### Bug fixes/Enhancements

- Fixes for multiple Clam AV vulnerabilities (CVE-2017-6420, CVE-2017-12378, CVE-2018-0202, CVE-2017-6418).
- Improved compatibility with TrendMicro (CSCvi07080).
- Addressed Clam AV issue which was triggering false positive against PDF files (CSCvi01400).

22 February 2018

### AMP for Endpoints Console 5.4.20180222

#### New

- Updated weekly reports with new summaries for Deployment Status, Application Blocks, Low Prevalence Executables Detections Results, and Threat Root Cause.

8 February 2018

8 February 2018

## AMP for Endpoints Windows Connector 6.0.7 (superseded by 6.0.9)

### New

- Added /kb4072699 installer switch to automatically set the registry key necessary to receive the [Windows Security Update for KB 4072699](#).

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**IMPORTANT!** Test and ensure compatibility of all AV products installed before using this installer switch. See [Cisco AMP for Endpoints Compatibility with Windows Security Update KB4056892](#) for important details in the Caveats and Considerations section that apply to use of the installer switch for setting the registry key.

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### Bugfixes/Enhancements

- Improved TETRA file detection parsing. (CSCvh54783, CSCvh77705)
- Addressed an issue where the Connector could cause a blue screen under rare conditions. (CSCvh56811)

30 January 2018

## AMP for Endpoints Console 5.4.20180130

### New

- Emails now come from no-reply@amp.cisco.com.
- Redesigned weekly reports with new data summaries.
- AMP Update Server released so you can host TETRA definitions locally and reduce internet-bound bandwidth usage from Connectors. Follow the AMP Update Server Configuration link in Advanced Settings > TETRA in your Windows policies.

16 January 2018

## AMP for Endpoints Mac Connector 1.6.0

### New

- Added automatic crash reporting.

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**IMPORTANT!** The AMP for Endpoints Mac Connector no longer supports OS X 10.10 and earlier as of version 1.6.0.

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### Bugfixes/Enhancements

- Fixed a bug that caused retrospective quarantine failure events to be displayed even though it succeeded.
- Improved compatibility with macOS 10.13.
- Updated third-party libraries.
- Reclassified some error messages that were being logged frequently under normal circumstances so they are only seen when running the Connector with Debug Logging enabled in policy.
- Increased the size of the retrospective database from 50MB to 500MB with better pruning efficiency to decrease disk reads and writes.

## AMP for Endpoints Linux Connector 1.6.0

### Bugfixes/Enhancements

- Improved upgrade process to protect against failures.
- Fixed a bug that caused retrospective quarantine failure events to be displayed even though it succeeded.
- Updated third-party libraries.
- Reclassified some error messages that were being logged frequently under normal circumstances so they are only seen when running the Connector with Debug Logging enabled in policy.
- Increased the size of the retrospective database from 50MB to 500MB with better pruning efficiency to decrease disk reads and writes.

5 December 2017

## AMP for Endpoints Windows Connector 6.0.5

### New

- Exploit Prevention detection engine to block exploits and memory attacks that target certain processes.
- System Process Protection adds protection for memory attacks against certain Windows system processes.
- This version of the Connector runs on Windows 7, Windows 8 and 8.1, Windows 10, Windows Server 2008 R2, and Windows Server 2012. Older versions of Windows are no longer supported.

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**IMPORTANT!** On Windows 7 and Windows Server 2008 R2 you must apply the patch for [Microsoft Security Advisory 3033929](#) before installing the Connector.

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### Bugfixes Since the Exploit Prevention Beta Connector Release:

- Connector service now functions properly when installed on Windows 10 Fall Creators Update.
- The Connector no longer causes a warning to appear when opening the Computer Management window.

### Bugfixes/Enhancements:

- Fixes for multiple ClamAV vulnerabilities.
- Improved security of the Connector Protection password.
- Improved Windows proxy discovery.
- Improvements to make Connector upgrades more robust going forward.
- Addressed an issue where the Connector would leave many temporary files behind, filling up the disk.
- The History page on the Connector user interface now shows the proper detection name for quarantined files that were already in the local cache.
- Improved reliability when an Endpoint IOC scan is launched.
- Updated SQLite version to prevent high CPU usage.
- Improved Connector user interface responsiveness.

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**IMPORTANT!** All upgrades from previous AMP for Endpoints Windows Connector versions to 6.x.x will require a reboot of the endpoint.

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## AMP for Endpoints Console 5.4.20171205

### New

- Added Process Exclusion type to support System Process Protection in AMP for Endpoints Windows Connector version 6.0.5 and later.
- Added Policy settings to enable Exploit Prevention and System Process Protection in AMP for Endpoints Windows Connector version 6.0.5 and later.

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**IMPORTANT!** All policies must be on the new AMP Cloud infrastructure by running the Cloud Migration tool before you can deploy AMP for Endpoints Windows Connector version 6.0.5 and later. All new policies created since February 2016 use the new AMP Cloud infrastructure by default.

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### Bugfixes/Enhancements

- Added Connector version numbers to the Download Connector page. After you select a Group the Connector version to be downloaded will be displayed for each Connector type.

30 November 2017

## AMP for Endpoints Mac Connector 1.5.1

### Bugfixes/Enhancements

- Fixes for multiple ClamAV vulnerabilities.
- Addressed memory leak when scanning plist files.
- Fixed potential crash during a failed retrospective quarantine.

## AMP for Endpoints Linux Connector 1.5.1

### New

- Official support for RHEL/CentOS 7.4.
- Official support for RHEL/CentOS 6.9.

### Bugfixes/Enhancements

- Fixes for multiple ClamAV vulnerabilities.
- Fixed HTTP parsing for certain processes.

28 November 2017

## AMP for Endpoints Console 5.4.20171128

### New

- You can send users a notification to set up Two-Step Verification.
- New filters added to Users page: Last Login, Two-Step Verification, Remote File Fetch, and Command Line.
- A CAPTCHA is displayed when a user has many failed login attempts.
- New UI for improved Policy configuration.
- Command line data is now available on the API.
- Businesses in the EU can now switch their AMP for Endpoints accounts to use the new EU Threat Grid Cloud.
- Individual users can now be configured with permission to view command line data.
- New popover on clicking IP addresses, URLs, and SHA-256s.
- Enable scanning of Word, PowerPoint, and Excel file types in AMP for Endpoints Mac and AMP for Endpoints Linux Connector policies.

31 October 2017

## AMP for Endpoints Console 5.4.20171031

### New

- Updated menu colors to be more consistent with other Advanced Threat products.
- Users can now specify Windows 10 as the OS to run analysis on when sending files to the Threat Grid.
- Users can now chose to preview the new Policy UI. The existing policy UI will be deprecated soon.
- Password requirements are now more stringent.
- New Splunk app is now in the Splunk app store.  
<https://splunkbase.splunk.com/app/3670/#/details>  
<https://splunkbase.splunk.com/app/3686/#/details>

18 October 2017

## AMP for Endpoints Linux Connector 1.5.0.518

### New

- Update Linux signed file quarantine guardrail.
- Resume filesystem scans if the daemon restarts.
- Hide exclusion list in UI based on policy configuration.
- Remove old quarantined files automatically.

### Bugfixes/Enhancements

- Update 3rd party libraries.
- Bypass proxy when unable to connect to AMP registration server.
- Fix execute not being excluded from scan when it should be.
- Fix custom scan misbehavior.
- Disable unintended auto-start of ampmmon after reboot in CentOS 6.
- Scan full contents of archives that contain malware.
- Do not treat directed or scheduled scans which processed zero files as failed.
- Fix restore from quarantine failure.
- Fix CLI crash when displaying very long exclusion lists.
- Fix intermittent failure where CLI is stuck in initializing phase.

17 October 2017

## AMP for Endpoints Mac Connector 1.5.0.548

### New

- Support macOS High Sierra (10.13).
- Resume filesystem scans after AMP service daemon restarts.
- Hide exclusion list in UI based on policy configuration.

### Bugfixes/Enhancements

- Update Third Party libraries.
- Fix memory leak.
- Optimize how exclusions are applied.
- Improve Cloud Recall Restore error handling.
- Scan full contents of archives that contain malware.
- Remove old quarantined files automatically.
- Restrict access permission of some internal files.

5 October 2017

## AMP for Endpoints Windows Connector 5.1.13

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**IMPORTANT!** Starting from Windows Connector 6.0.1, we will no longer be supporting the addition of new features for Windows XP, Windows Vista, Windows Server 2003 and Windows Server 2008 (non-R2) operating systems. Critical bug fixes and security patches will still be made to the 5.x.x branch of the Connector for a limited time. For more information, please refer to the [End of Support Announcement](#).

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### Bugfixes/Enhancements

- Patched a DLL hijacking vulnerability in the Connector installer (CVE-2017-12312).
- Extremely long process command line arguments are now properly captured.
- The Connector UI accurately displays Cloud connectivity status.
- Improved ability of the Connector to detect and repair configuration issues during regular usage and on Connector upgrade.
- Improved performance of Process Exclusions for operating systems prior to Windows Vista.
- Addressed an issue where the Connector is unable to upgrade directly from version 5.0.9 or older to 5.1.11 when Connector Protection is enabled.
- Reliability of Support Package generation has been improved.
- Connector will not generate new identity on machines where the BIOS serial number contains blank spaces.
- Addressed issue where the Connector service does not automatically start after multiple upgrades without a reboot.
- Improved reliability of system reboot after upgrades in Windows Server 2003.

28 September 2017

## AMP for Endpoints Console 5.4.20170928

### New

- Reorganized top bar navigation:
  - Support link is now in the Help menu.
  - My Account and Log Out links are now located in the new User menu.
- Auto-Refresh on Dashboard - To better help customers viewing the Dashboard on large screens (for example in a Network Operations Centre), the Dashboard page can now be set to auto-refresh.

24 August 2017

24 August 2017

## AMP for Endpoints Mac Connector 1.4.5

### New

- Digitally signed malware will now be quarantined by the Mac Connector.

### Bugfixes/Enhancements

- Improved DMG container handling.
- Addressed race condition that would result in failed quarantine restores.
- Custom or scheduled scans that result in 0 files being scanned no longer report as a failed scan.
- Installs of the Connector on a system with multiple users will no longer be incorrectly reported as failed.

9 August 2017

## AMP for Endpoints Console 5.4.2017080915

### New

- User Name Search feature.
- Allow user to select the AMP Threat Grid VM to use when sending a file for analysis.

### Bugfixes/Enhancements

- Fixed a bug in the Product Updates section on the Edit/Create Policy page where Connector version numbers were not sorted correctly.
- Fixed a bug where search results that were shas displayed the incorrect context menu.
- Addressed an issue where inbox events were not grouped correctly.

3 August 2017

## AMP for Endpoints Mac Connector 1.4.3

### Bugfixes/Enhancements

- Addressed issue where a different folder may be inadvertently deleted during the uninstall process when a subdirectory in the “/Users” directory contains a subdirectory with a space character.

Note that most systems are not affected as macOS System Preferences prevents creating a user with a space character in the account name.

To trigger this issue, two similarly-named user directories must exist (e.g. “/Users/JohnDoe” and “/Users/JohnDoe Copy”). If “/Users/JohnDoe Copy” contains the path to AMP Connector log files (e.g. “/Users/JohnDoe Copy/Library/Logs/Sourcefire/”), uninstalling or upgrading will result in the user directory “/Users/JohnDoe” being deleted.

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**IMPORTANT!** Mac Connector 1.4.2 will no longer be made available in the portal.

If you installed 1.4.2, you must upgrade to 1.4.3 directly without uninstalling 1.4.2.

If you downloaded the 1.4.2 installer, it is recommended that you replace it with a 1.4.3 installer immediately.

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## AMP for Endpoints Windows Connector 5.1.11

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**IMPORTANT!** Starting from Windows Connector 6.0.1, we will no longer be supporting the addition of new features for Windows XP, Windows Vista, Windows Server 2003 and Windows Server 2008 (non-R2) operating systems. Critical bug fixes and security patches will still be made to the 5.x.x branch of the Connector for a limited time. For more information, please refer to the [End of Support Announcement](#).

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### Bugfixes/Enhancements

- Updated TETRA license key.

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**IMPORTANT!** The TETRA license for all Windows connector versions prior to 5.1.11 will expire on November 1, 2017. If you wish to continue using the TETRA engine to supplement the cloud-based protection of the Windows Connector, you must upgrade before this date.

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- The DFC driver now initializes more reliably.
- The Connector now has an increased window for monitoring network connections.
- The local DFC cache is now being updated correctly.
- Certain IP ranges are no longer incorrectly allow listed by the Connector.
- Custom IP block/allow list entries composed of CIDR block and port number combinations are now processed correctly by the Connector.
- The Connector Protection password is no longer logged during the uninstall process.
- Unnecessary TETRA definitions are no longer downloaded when the local definition set is up to date.
- Reduced the likelihood of the Connector generating a new identity on upgrade.
- Scanning of container files (pdf, zip, tar, etc) is now more robust.

18 July 2017

- Improved accuracy of parent process reporting.
- Performance of process exclusions has been improved.

18 July 2017

## AMP for Endpoints Linux Connector 1.3.1

### Bugfixes/Enhancements

- Patched a vulnerability in unrar (CVE-2012-6706)
- Patched a vulnerability in curl (CVE-2017-7468)

11 July 2017

## AMP for Endpoints Console 5.4.20170711

### New

- The Cisco AMP for Endpoints terms (previously the EULA) have been updated for consistency across the entire Cisco portfolio. The latest version of the Cloud terms can be found at <http://www.cisco.com/c/en/us/about/legal/cloud-and-software/cloud-terms.html>

### Bugfixes/Enhancements

- Changed the Groups list on the Connector download page to be sorted alphabetically.
- (API only) The Executed Malware indication of compromise event includes extra fields like filename and path where available.
- Fixed a bug where policy serial numbers could be incremented incorrectly under certain circumstances.
- Deleted computers are no longer included in the computer count on the Automatic Analysis page.
- Addressed an issue where there could be a discrepancy between the number of licensed computers and the number of computers shown on the Computers page.

6 July 2017

## AMP for Endpoints Windows Connector 5.1.9

### Bugfixes/Enhancements

- Patched a vulnerability in unrar (CVE-2012-6706)

## AMP for Endpoints Mac Connector 1.4.2 (superseded by 1.4.3)

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**IMPORTANT!** AMP for Endpoints Mac Connector 1.3.0 users are strongly advised to upgrade to 1.3.1 then reboot the system before upgrading to 1.4.2. Upgrading directly from 1.3.0 to 1.4.2 can cause a kernel panic. For more information, please refer to this [special advisory](#).

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**IMPORTANT!** Users running macOS 10.12 (Sierra) should upgrade to 10.12.4 or later. There are compatibility issues that affect system stability which are resolved in macOS 10.12.4.

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### New

- Rebranded product from Sourcefire FireAMP to AMP for Endpoints.  
As part of the rebranding, the Connector installation paths have changed to:
  - /Applications/Cisco AMP
  - /Library/Application Support/Cisco/AMP for Endpoints Connector
  - /opt/cisco/amp

Before upgrading your endpoints to this version, be sure to review any exclusions you have for 3rd party software that is installed alongside AMP for Endpoints.

- Added localization support to the Connector UI for Simplified Chinese, Japanese, and Korean.

### Bugfixes/Enhancements

- Fixed a bug in the AMP network kernel extension that can cause a kernel panic.
- Patched a vulnerability in unrar (CVE-2012-6706)
- Fixed a bug where connection to the AMP cloud may fail when SSL inspection is enabled on the network gateway.
- Applied security fixes from 3rd party libraries used by the Connector including OpenSSL, cURL, and xmlsec.
- Fixed a bug where a user-initiated scan could interfere with detections in real-time file operations.
- Strengthened guards against misbehaving UI clients.

20 June 2017

- Fixed a bug to ensure that files found to be malicious by the offline engine are scanned using the AMP cloud before generating a detection event.
- Fixed a bug where file paths are included in cloud queries even when the feature is disabled in policy.
- Fixed a bug causing a “too many open files” error after parsing MSXML files.
- Fixed a bug where the AMP daemon may crash after disconnecting from the AMP cloud for an extended amount of time.
- Fixed a bug where user information for some events are missing.
- Fixed a bug causing a UI lockup when performing flash scan.
- Improved the readability of quarantine failure messages.
- Improved resiliency against corrupt ClamAV definition files.
- Removed a dependency on perl in the installer.
- Resolved an issue where the connector could not quarantine malicious resource forks.

20 June 2017

## AMP for Endpoints Console 5.4.20170620

### New

- Added custom filters and alerting to the Dashboard and Inbox tabs so users can receive email alerts for new compromises.
- Added WannaCry demo data and associated document.

## 8 June 2017 Release Notes

### Bugfixes/Enhancements

- Added Windows 7 Japanese and Korean operating systems as options for File Analysis. Windows XP and Windows 7 32-bit operating systems are no longer supported by File Analysis. If you currently have your default image set to one of these on your Business page the default will automatically change to Windows 7 x64.

## 8 June 2017 Release Notes

### AMP for Endpoints Windows Connector 5.1.7

#### Bugfixes/Enhancements

- Addressed an issue where Connectors installed on Windows SMB servers would cause shared, mapped drives to be inaccessible.

## 6 June 2017 Release Notes

### AMP for Endpoints Console 5.4.20170606

#### New

- Added support for single sign-on through Active Directory, Okta, and Ping Federate.
- Added a policy option to hide list of exclusions from the AMP for Endpoints Windows Connector UI on versions 5.1.3 and higher.

#### Bugfixes/Enhancements

- Prevalence now shows data based on a global list of prevalence instead of only your deployment.
- The default values of some policy items have changed when creating new policies:
  - Heartbeat Interval is set to 15 minutes.
  - Send User Name in Events is enabled.
  - Hide File Notifications is enabled.
  - Maximum Scan File Size is set to 50 MB.
  - Maximum Archive Scan File Size is set to 50 MB.
- Command Line Logging policy item is only available when Connector Log Level is set to Debug and Command Line Capture is enabled.
- Default Windows exclusions have been updated when creating a new exclusion set.

### 1 June 2017 Release Notes

#### AMP for Endpoints Mac Connector 1.3.1

##### Bugfixes/Enhancements

- This special release fixes a defect in AMP for Endpoints Mac Connector version 1.3.0 that can cause an unexpected system restart. It is highly recommended that 1.3.0 users upgrade to this version and restart their systems before attempting to upgrade to newer Connector versions. Users currently running 1.2.6 or earlier are encouraged to skip this version and upgrade to newer versions directly.

Refer to advisory [AMP for Endpoints Mac Connector 1.3.0 Defect Can Cause Unexpected System Restart](#) for details.

### 9 May 2017 Release Notes

#### AMP for Endpoints Windows Connector 5.1.5

##### Bugfixes/Enhancements

- Addressed issues where the Connector could lose connection to the cloud when Identity Sync is enabled.
- Addressed an issue where the Connector could be disabled by a user with admin privileges when Connector Protection is enabled.
- Addressed a crash that would occur when attempting to enable debug logging.
- Fixed a crash that could occur during the Connector service shutdown.
- Addressed an issue where a password containing certain special characters was not being parsed correctly when attempting to uninstall the Connector via command line with Connector Protection enabled.
- Addressed a minor issue when multiple quarantine notifications are shown on the endpoint for Korean operating systems.

### 2 May 2017 Release Notes

#### AMP for Endpoints Console 5.4.20170502

##### New

- Added computer description drop-down to Device Trajectory.
- Added Send User Name in Events to Policies for Mac Connector (version 1.3.0 and later)
- Added Send User Name in Events to Policies for Linux Connector (version 1.1.1 and later)

### 4 April 2017 Release Notes

#### AMP for Endpoints Console 5.4.20170404

##### New

- Added process exclusions for AMP for Endpoints Windows Connector 5.1.3 and higher.

##### Bugfixes/Enhancements

- Added pagination for Significant Compromise Artifacts on Dashboard and Inbox tabs.
- Added the ability to mute Significant Compromise Artifacts on Dashboard and Inbox tabs.
- Added the ability to view details of Significant Compromise Artifacts on Dashboard and Inbox tabs.
- Added file names for SHA-256 artifacts on Dashboard and Inbox tabs.
- Added install\_date timestamp to the Computers API so users can see the install dates of Connectors.

### AMP for Endpoints Linux Connector 1.3.0

#### New Features

- Added support for Red Hat Enterprise Linux and CentOS 7.2 and 7.3

#### Bugfixes/Enhancements

- Fixed a bug where connection to the AMP cloud may fail when SSL inspection is enabled on the network gateway.
- Applied security fixes from 3rd party libraries used by the Connector including OpenSSL, cURL, and xmlsec.
- Fixed a bug where a user-initiated scan could interfere with detections in real-time file operations.
- Strengthened guards against misbehaving UI clients.
- Fixed a bug to ensure that files found to be malicious by the offline engine are scanned using the AMP cloud before generating a detection event.
- Fixed a bug where file paths are included in cloud queries even when the feature is disabled in policy.
- Fixed a bug causing "too many open files" error after parsing MSXML files.
- Fixed a bug where the AMP daemon may crash after disconnecting from the AMP cloud for an extended amount of time.
- Fixed a bug where user information for DFC detection events are missing.
- Improved the readability of quarantine failure messages.
- Improved resiliency against corrupt ClamAV definition files.
- Added abrt crash reports to the Support Tool diagnostic archive.

### 3 April 2017 Release Notes

#### AMP for Endpoints Windows Connector 5.1.3

##### New Features

- The Connector will now register with Windows Security Center when TETRA is enabled via policy and all definitions have completed downloading.

##### Bugfixes/Enhancements

- Improved system performance when the Connector is installed on systems with VMware Persona Management.
- Addressed an issue where the Connector could cause a BSOD under rare conditions.
- Fixed an issue where the Connector could cause system freezes in some instances.
- Addressed an issue with Endpoint IOC scans consuming high amounts of CPU.
- Fixed an issue where altitudes of older Connectors that are upgraded to 5.1.1 or higher were not modified to be more in line with Microsoft software recommendations.
- The Connector is now able to download TETRA definitions over SSL.
- Fixed an issue on Windows XP where the migration from 'Sourcefire' to 'Cisco' install directories was not working correctly when upgrading from versions prior to 5.1.1.
- Addressed an issue where Cloud Notifications were displayed by default when installing the Connector without an injected policy.
- Added a fix to address a vulnerability in bzip2 (CVE-2016-3189).
- Removed erroneous log lines that appeared when using the Connectivity Test Tool.

### 7 March 2017 Release Notes

#### AMP for Endpoints Console 5.4.20170307

##### Bugfixes/Enhancements

- Added Compromise Event Types to the Dashboard and Inbox tabs.
- Fixed a bug in Applications integration to better align Computer IPs between the AMP for Endpoints Console and Firepower Management Console.
- Authentication server changes will redirect users to a new host when logging in. Any pending password resets may have to be resent.

### 16 February 2017 Release Notes

#### AMP for Endpoints Windows Connector 5.1.1

##### New

- Limited rebranding from Sourcefire FireAMP to AMP for Endpoints.

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**IMPORTANT!** As part of the rebranding, the Connector default installation path was changed to C:\Program Files\Cisco\AMP. Before upgrading your endpoints to this version, be sure to review any exclusions you have for 3rd party software that is installed alongside AMP for Endpoints.

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- Added localization support to the Connector UI for Simplified Chinese, Japanese, and Korean.
- Updated the TETRA engine to add support for downloading signature deltas.
- A new Timed Diagnostic Tool option is available in the AMP for Endpoints Connector Start Menu group.
- A utility to test connectivity from the endpoint to the Cisco cloud is now included in the installation directory.
- Connector binaries are now signed using the Cisco EV code signing certificate.
- The AMP for Endpoints Windows Connector can now be installed on systems that have Secure Boot enabled.

##### Bugfixes/Enhancements

- Improved stability of the Connector by addressing numerous reported crashes.
- Improved handling of local configuration files to reduce instability due to configuration errors.
- Addressed issue where the Connector network driver could cause a BSOD when Windows Driver Verifier is used against it.
- Modified altitude of the AMP for Endpoints Windows drivers to be more in line with Microsoft software recommendations.
- Addressed an issue where the Connector could become deadlocked.
- Addressed compatibility issues with VMWare View Persona Management and LabLogic Debra.
- Addressed an issue where virtualized systems were not correctly being identified as unique.
- Addressed an issue where the installer would not complete successfully under certain circumstances.
- Addressed an issue where previously downloaded TETRA definitions couldn't be used after a partial uninstall followed by a re-install.
- Addressed an issue where the Connector would not shut down in a timely fashion while TETRA definitions were being downloaded.
- Fixed an issue where Application Blocking events were not reporting parent process information properly.

## 7 December 2016 Release Notes

- Addressed an issue where log files could grow beyond their maximum size.
- Fixed an issue where the Connector would continue to apply Advanced Custom Detection definitions after they were removed from policy until the Connector was restarted.
- Fixed an issue where HDB Advanced Custom Detection signatures would not be correctly applied when configured to use a wildcard for file size.
- Addressed an issue where the first scan after install would execute without network activity or before TETRA definitions were fully downloaded.
- Addressed an issue where the Connector would negatively impact write performance when installed on machines with solid state drives (SSDs).
- Addressed an issue on Windows XP where the Connector could not acquire the machine's IP address when configured with a static IP address and the "Register this connection's addresses in DNS" option was disabled.

## 7 December 2016 Release Notes

### AMP for Endpoints Console 5.4.20161207

#### New

- AMP for Endpoints Linux Connector policies now support SOCKS proxies.
- AMP for Endpoints Linux Connector policies now support NTLM authentication via HTTP proxies.
- Added Agentless Cognitive Incidents to show incidents from computers without a Connector in your organization. You must have Cognitive Threat Analytics integration enabled to use this feature.

#### Bugfixes/Enhancements

- Added filter reset button to Dashboard and Inbox tabs.
- Added IP address and URL artifacts to the Significant Compromise Artifacts on Dashboard and Inbox.
- Various improvements to Dashboard and Inbox behavior based on customer feedback.

### 5 December 2016 Release Notes

#### AMP for Endpoints Mac Connector 1.3.0

##### New

- Added support for Advanced Custom Detections.
- The AMP for Endpoints Mac Connector can capture command line arguments used during execution and send this information to the AMP cloud. This information will be visible in Device Trajectory for administrators with Two-Factor Authentication enabled.
- The Connector will now send cloud queries for LZMA compressed Adobe Flash files, MSO attachments within MS Office 2003 XML files, and Hancom Office files.
- Added scanning of files referenced by startup and launch related plists.
- Upgraded ClamAV engine to 0.99.2.

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**IMPORTANT!** The AMP for Endpoints Mac Connector no longer supports OS X 10.7 as of version 1.3.0.

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##### Bugfixes/Enhancements

- Applied security fixes from third party libraries including OpenSSL, Jansson and Libxml2.
- Fixed a bug that stopped ClamAV from scanning files when disconnected from the cloud.
- Addressed an issue where certain file activity could cause scans to stop prematurely.
- Fixed a bug where files contained inside PDF files were not scanned.
- Fixed a bug where some UDP connections were not monitored.
- Fixed a bug where user information was missing from some events.
- Fixed a bug where some deferred scans were dropped because the deferred scan file was not written to correctly.
- Fixed a bug where the URL reported for some network events were malformed.
- Fixed a bug where Definition Update events were missing from the Events table.
- Fixed a bug where the known viruses count for Definition Update events was incorrect.
- Made automatic ClamAV definition updates more robust.
- Clarify in Execution Blocked events and notifications that no action was taken when the Connector is running in audit mode.
- Removed stale files from ClamAV working directory at daemon start-up.
- Reduced the performance overhead of wildcard exclusions.
- Fixed a bug where a kernel extension could panic if there are active network connections when the daemon is stopping or retrying a failed initialization step.
- Fixed various logging issues.

## 29 November 2016 Release Notes

### 29 November 2016 Release Notes

#### AMP for Endpoints Linux Connector 1.2.1

##### New

- Added support for Red Hat Enterprise Linux and CentOS 6.7 and 6.8.

##### Bugfixes/Enhancements

- Applied security fixes from 3rd party libraries used by the Connector including OpenSSL, cURL, and Jansson.
- Improved detection capabilities when the Connector does not have connectivity to the AMP cloud.
- Fixed a bug where a custom ClamAV Hash Based Signature (.hdb) containing a wildcard fails to trigger.
- Fixed a bug where some deferred scans were dropped because the deferred scan file is not written to correctly.
- Fixed a bug where files contained inside PDF files were not scanned.
- Fixed a bug where exclusion rules were not treated as case sensitive.
- Removed stale files from ClamAV working directory at daemon start-up.
- Optimized scheduling for ClamAV definition updates.
- Addressed an issue where the Connector would consume high CPU when a local database reached a certain size.
- Addressed issues where the ampci was not correctly reporting some successful Connector actions.

### 22 November 2016 Release Notes

#### AMP for Endpoints Windows Connector 5.0.9

##### Bugfixes/Enhancements

- Updated curl to version 7.51.0.
- Addressed a vulnerability where Connector Protection could be bypassed during uninstall by entering a specific character in the password field.

## 15 November 2016 Release Notes

### 15 November 2016 Release Notes

#### AMP for Endpoints Mac Connector 1.2.6

##### Bugfixes/Enhancements

- Updated curl version to 7.51.0.
- Addressed an issue where the Connector would consume high CPU when a local database reached a certain size.
- Fixed a bug where the Connector would consume high CPU when some local 3rd party software would periodically touch but not modify files.
- The Connector is now able to successfully quarantine files that have immutable flags set.
- Addressed various issues with scan error reporting.

### 8 November 2016 Release Notes

#### AMP for Endpoints Console 5.4.20161108

##### New

- Dashboard tab has been added to provide a more comprehensive view of compromises and threats to your AMP for Endpoints deployment.
- Inbox tab provides a single view to work on and resolve compromises in your AMP for Endpoints deployment.

##### Bugfixes/Enhancements

- Added operating system filters to the Low Prevalence Executable page so that files from less widely deployed operating systems wouldn't obscure other low prevalence files.
- Added alert URL to the API for vulnerability data.

### AMP for Endpoints Windows Connector 5.0.7

#### Bugfixes/Enhancements

- Addressed an issue where the AMP for Endpoints Windows Connector could potentially delete files located in the volume root directory (but not files in subfolders) if upgraded from a version of the Connector that was below 4.2.0 and was in a state where the local.xml was corrupted.

---

**IMPORTANT!** This issue affected all previous AMP for Endpoints Windows Connector versions 4.2.0 to 4.4.2 and 5.0.1 to 5.0.5. It is important that you do not use installers from those versions to update Connectors if you previously downloaded them. Please download and use the latest versions 4.4.4 and 5.0.7.

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- Improved the ability for the Connector to upgrade/uninstall connectors that are in a crashed state.

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**IMPORTANT!** Upgrading from certain Connector versions will require a reboot. Downloading the new installer or performing an update via policy will provide a list of computers in the selected group or policy that will require a reboot.

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### AMP for Endpoints Windows Connector 4.4.4

#### Bugfixes/Enhancements

- Addressed an issue where the AMP for Endpoints Windows Connector could potentially delete files located in the volume root directory (but not files in subfolders) if upgraded from a version of the Connector that was below 4.2.0 and was in a state where the local.xml was corrupted.

---

**IMPORTANT!** This issue affected all previous AMP for Endpoints Windows Connector versions 4.2.0 to 4.4.2 and 5.0.1 to 5.0.5. It is important that you do not use installers from those versions to update Connectors if you previously downloaded them. Please download and use the latest versions 4.4.4 and 5.0.7.

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- Improved the ability for the Connector to upgrade/uninstall connectors that are in a crashed state.

---

**IMPORTANT!** Upgrading from certain Connector versions will require a reboot. Downloading the new installer or performing an update via policy will provide a list of computers in the selected group or policy that will require a reboot.

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### 25 October 2016 Release Notes

#### AMP for Endpoints Windows Connector 5.0.5 (superseded by 5.0.7)

##### Bugfixes/Enhancements

- Addressed an issue where the Connector could show up as a new computer in the AMP for Endpoints Console after upgrading to version 5.0.X from version 4.4.2 or below.
- Fixed an issue where the 5.0.X Connector was failing to communicate with the cloud when configured to use a proxy with NTLM authentication.
- Fixed an issue where Connector events related to installing and upgrading were sometimes not sent to the cloud.

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**IMPORTANT!** Upgrading from 5.0.x to 5.0.5 does not require a reboot. Upgrading from all other previous versions **will require a reboot**.

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### 17 October 2016 Release Notes

#### AMP for Endpoints Windows Connector 5.0.3 (superseded by 5.0.7)

##### Bugfixes/Enhancements

- Addressed an issue with AMP for Endpoints Windows Connector v5.0.1 where the uninstaller was not honoring command line arguments.

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**IMPORTANT!** Upgrading from 5.0.1 to 5.0.3 does not require a reboot. Upgrading from all other previous versions **will require a reboot**.

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### 6 October 2016 Release Notes

#### AMP for Endpoints Console 5.4.20161006

##### New

- Added policy options for AMP for Endpoints Windows Connector 5.0 command line capture.

##### Bugfixes/Enhancements

- Fixed a bug where pagination on the Audit Log for a single computer was broken.
- Fixed an issue where attempting to view matching endpoint IOCs from an IOC scan caused an error.

#### AMP for Endpoints Windows Connector 5.0.1 (superseded by 5.0.7)

##### New

- The AMP for Endpoints Windows Connector now uses CiscoSSL to communicate with the AMP Cloud. The Connector will use two new servers to perform cloud lookups as part of this change. See the [AMP for Endpoints User Guide](#) for new firewall exceptions.

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**IMPORTANT!** AMP for Endpoints Windows Connector 5.0.1 only supports cloud lookups on TCP port 443.

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- The AMP for Endpoints Windows Connector can capture command line arguments used during execution and send this information to the AMP cloud. This information will be visible in Device Trajectory for administrator users with Two-Factor Authentication enabled.
- ClamAV upgraded to 0.99.2.

##### Bugfixes/Enhancements

- Fixed an issue where TETRA could incorrectly flag files as malicious.
- Fixed an issue where TETRA was not handling the detection of malicious archive files properly in certain situations.
- Fixed a rare issue where the Connector would cause high CPU usage due to MTU and policy size.
- Addressed an issue where the Connector process was able to be stopped via debugger access.
- Improved validation of new policies to ensure continued connectivity with the AMP cloud.

## 29 September 2016 Release Notes

- Users are now able to configure which path to store temporary files during the installation process through a command line switch.
- Improved the uninstall process to better handle scenarios where the Connector is in a bad state prior to uninstalling.
- Improved overall stability of the Connector.
- Addressed a minor issue where the Connector would report a successful custom scan for invalid paths.
- Fixed an issue where partial connectivity to the AMP cloud would cause installs to hang indefinitely.
- Improved error reporting.

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**IMPORTANT!** Upgrading to AMP for Endpoints Windows Connector 5.0.1 from all previous Connector versions will require a reboot.

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## 29 September 2016 Release Notes

### AMP for Endpoints Mac Connector 1.2.5

#### Bugfixes/Enhancements

- Addressed a compatibility issue with AMP for Endpoints Mac Connector 1.2.4 and OS X 10.12. All users who are running Connector version 1.2.4 should upgrade to 1.2.5.

## 27 September 2016 Release Notes

### AMP for Endpoints Linux Connector v1.2.0

#### New

- Added support for Advanced Custom Detections.
- The AMP for Endpoints Linux Connector can capture command line arguments used during execution and send this information to the Cisco cloud. This information will be visible in Device Trajectory for administrator users with Two-Factor Authentication enabled.
- ClamAV upgraded to 0.99.2.
- The Connector will now send cloud queries for LZMA compressed Adobe Flash files, MSO attachments within MS Office 2003 XML files, and Hancor Office files.

## 20 September 2016 Release Notes

### Bugfixes/Enhancements

- Fixed a bug that caused some network detection events not to be reported to the cloud correctly.
- Fixed a bug that caused ClamAV not to scan files when it was disconnected from the cloud.
- Addressed an issue where ClamAV definitions could get into a bad state.
- Made automatic ClamAV definition updates more robust.
- Addressed an issue where under certain circumstances a requested file could not be uploaded to the File Repository.
- Fixed a bug where some retrospective operations could fail because of missing data.
- Files installed from a trusted and signed RPM package will not be quarantined.
- Reduced the performance overhead of wildcard exclusions.
- Fixed a bug that could cause DNS resolution errors after a paused virtual machine was resumed.
- Fixed issues with Connector logging.

### Special Advisory

Important note for RHEL and CentOS 6.0-6.5 users

Confirm the installed version of procps is 3.2.8-30 or newer prior to installing this update. Older versions of procps are not compatible and users are advised to update to the latest version. Refer to the following Red Hat advisories for details:

<https://rhn.redhat.com/errata/RHBA-2014-1595.html>

<https://rhn.redhat.com/errata/RHBA-2015-1407.html>

<https://rhn.redhat.com/errata/RHBA-2015-1812.html>

<https://rhn.redhat.com/errata/RHBA-2015-2643.html>

<https://rhn.redhat.com/errata/RHBA-2016-0904.html>

## 20 September 2016 Release Notes

### AMP for Endpoints Console v5.4.20160920

#### Bugfixes/Enhancements

- Added a date filter to the filters on the Events page. You can choose to view events from the past day, week, or all events.
- Demo data computers now have MAC addresses available to API users.

### 8 September 2016 Release Notes

AMP for Endpoints Mac Connector v1.2.4.431 (superseded by 1.2.5)

#### New

- Added Support for Mac OS X 10.12

#### Bugfixes/Enhancements

- Fixed an issue where you could not fetch a file from a computer after it was deleted even if other copies of the same file existed on the computer.
- Addressed an issue where the Connector would only perform a Retrospective Quarantine on the first instance of a file on the computer.
- Fixed a bug where scans in progress when the computer was rebooted did not appear to complete in the Console.

## 7 September 2016 Release Notes

### 7 September 2016 Release Notes

#### AMP for Endpoints Console v5.4.20160907

##### New

- Added Cognitive Threat Analytics examples to Demo Data.

### 23 August 2016 Release Notes

#### AMP for Endpoints Console v5.4.20160823

##### Bugfixes/Enhancements

- Fixed a bug where Audit Log filters were not being applied properly.

### 9 August 2016 Release Notes

#### AMP for Endpoints Console v5.4

##### Bugfixes/Enhancements

- Rebranded FireAMP Console to AMP for Endpoints.

### 12 July 2016 Release Notes

#### AMP for Endpoints Mac Connector v1.2.2.407

##### Bugfixes/Enhancements

- Fixed an issue where outdated ClamAV definitions were still being loaded by the Connector in some instances. This could potentially cause an increase in false-positive detections.

### 5 July 2016 Release Notes

#### AMP for Endpoints Console v5.3.20160706

##### New

- Added an API call to retrieve all AMP for Endpoints Connector GUIDs from a

## 8 June 2016 Release Notes

- specified group.
- Users can now choose to receive Console Announcements via email.
- Administrators can now allow unprivileged users to fetch files from the groups they have permission to access.

## 8 June 2016 Release Notes

### AMP for Endpoints Console v5.3.20160607

#### New

- AMP for Endpoints is now integrated with Cisco Cognitive Threat Analytics. A user with a supported web proxy can use this integration for increased visibility and efficacy.

#### Bugfixes/Enhancements

- Added new exclusions to AMP for Endpoints Windows Connector default policies for Microsoft Windows Defender.

## 26 May 2016 Release Notes

### AMP for Endpoints Console v5.3.20160526

#### New

- The AMP for Endpoints API now allows you to make changes to your business. API users can move computers, assign policies to groups, and make modifications to Application Blocking and Simple Custom Detection lists.
- Added an API Credentials page to simplify 3rd party application management.

#### Bugfixes/Enhancements

- Added links to Weekly Reports sections. These links will take you to the appropriate section of the AMP for Endpoints Console filtered to the same view as the report metric.
- The SHA-256 of archive files are now displayed when a detection is triggered by a file contained within the archive.
- Clarified detection events when a Connector is in a group with a policy that uses Audit Mode.

### 19 May 2016 Release Notes

#### AMP for Endpoints Windows Connector 4.4.2 (superseded by 4.4.4)

##### Bugfixes/Enhancements

- Patched ClamAV engine to address potential vulnerabilities when handling certain archive file types (CVE-2016-1371, CVE-2016-1372).
- Fixed an issue where the Connector was not sending information about the current user for certain events.
- Addressed a bug where TETRA definition downloads did not appear to complete successfully even though they did.
- Fixed a problem where the Connector was not reporting the parent file type correctly in some cases.

#### AMP for Endpoints Mac Connector v1.2.2.382

##### Bugfixes/Enhancements

- Patched ClamAV engine to address potential vulnerabilities when handling certain archive file types (CVE-2016-1371, CVE-2016-1372).
- Modified the Connector installer to prevent downgrades when running the installer locally.
- Added more diagnostic information collected by the Support Tool.
- Improved performance when using Application Blocking lists on Mac OS X 10.8 and 10.9.
- Improved handling of nested archive files.
- Fixed an issue where the Connector was not sending information about the current user for certain events.
- Fixed an issue where the Connector wasn't cleaning up its child processes.
- The Connector will now try to connect directly to the Cisco Cloud if it can't contact the proxy server configured in Policy.

#### AMP for Endpoints Linux Connector v1.1.0.277

##### Bugfixes/Enhancements

- Patched ClamAV engine to address potential vulnerabilities when handling certain archive file types (CVE-2016-1371, CVE-2016-1372).
- Fixed an issue where the Connector was not sending information about the current user for certain events.
- Fixed an issue where retrospective restore operations would sometimes fail.

## 26 April 2016 Release Notes

- Improved handling of nested archive files.
- The Connector will now try to connect directly to the Cisco Cloud if it can't contact the proxy server configured in Policy.
- Addressed an issue where the CLI history page couldn't display very long file paths properly.
- Improved logging to aid in debugging Connector issues.

## 26 April 2016 Release Notes

### AMP for Endpoints Console v5.3.20160426

#### New

- VirusTotal integration on the right-click context menu.
- Added information about reboot requirements to Product Update section of Policies and to the Download Connector page.

## 14 April 2016 Release Notes

### AMP for Endpoints Windows Connector 4.4.1 (superseded by 4.4.4)

#### Bugfixes/Enhancements

- Addressed an issue where the TETRA engine was generating false-positive detections. Customers who experienced this issue have already been notified by Cisco Support.
- Improved error handling when upgrading from previous versions of the AMP for Endpoints Windows Connector.

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**IMPORTANT!** This upgrade does not require a reboot when upgrading from version 4.3.1 or 4.4.0 of the AMP for Endpoints Windows Connector.

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## 7 April 2016 Release Notes

### AMP for Endpoints Linux Connector v1.0.2.261

#### New

- The AMP for Endpoints Linux Connector now supports Remote File Fetch.
- Added RAR archive scanning.

## 31 March 2016 Release Notes

### Bugfixes/Enhancements

- Reduced cloud communication overhead by optimizing local caches.
- Improved overall stability and memory usage.
- Improved logging to help with debugging Connector issues.
- Resolved an issue where the Connector updater fails when SELinux is enabled.
- Fixed a compatibility issue with OpenVPN.
- Fixed various problems with handling user-created exclusions.
- Fixed a bug where the Connector reported extraneous file creation and execution events.
- Addressed an issue where ClamAV definitions would sometimes be placed in the incorrect path.
- Improved the ability to handle malicious forking executable files.
- Addressed issues with Connectors installed on virtual machines that are paused then resumed.
- Fixed a bug where the local restore operation could be initiated by an unprivileged user.

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**IMPORTANT!** Because of an issue with the updater in version 1.0.0 of the AMP for Endpoints Linux Connector, users performing upgrades through policy settings may see one or more Update Failed events. This is expected and the Connector will automatically schedule another attempt after each failure. The upgrade process should complete successfully within 24 hours. Manual upgrades through rpm or yum are not affected.

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## 31 March 2016 Release Notes

### AMP for Endpoints Windows Connector 4.4.0 (superseded by 4.4.4)

#### New

- The endpoint IOC scanner now supports the ability to only catalog changes in the filesystem, allowing IOC scans to complete faster after the first full catalog has been completed.
- AMP for Endpoints Windows no longer requires Windows administrator credentials for scheduled scans.

### Bugfixes/Enhancements

- Improved Connector stability, particularly with regards to shutting down the AMP for Endpoints service cleanly.
- Improved Connector reliability during installation and upgrades.

## 24 March 2016 Release Notes

- The Connector now dynamically honors file scan size limits when changed in policy. Previously the Connector service would have to be stopped and restarted.
- Fixed various issues with exclusion handling.
- Policy update events in the AMP for Endpoints console now accurately reflect the serial number of the acquired policy.
- Improved Connector error reporting to assist in troubleshooting.
- Improved handling of archive files.
- Fixed an issue where upgrades performed by installing the new Connector version over a previous version would not honor non-driver related command line switch options.

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**IMPORTANT!** This upgrade does not require a reboot when upgrading from version 4.3.1.10163 of the AMP for Endpoints Windows Connector.

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## 24 March 2016 Release Notes

### AMP for Endpoints Mac Connector v1.2.0.368

#### New

- The AMP for Endpoints Mac Connector now uses CiscoSSL to communicate with the AMP Cloud. The Connector will use two new servers to perform cloud lookups as part of this change. See the [AMP for Endpoints User Guide](#) for new firewall exceptions.

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**IMPORTANT!** AMP for Endpoints Mac Connector 1.2.0 only supports cloud lookups on TCP port 443.

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- A command line interface has been added to the AMP for Endpoints Mac Connector. This can be used to initiate scans, sync policies, show the Connector history, and more.

#### Bugfixes/Enhancements

- ClamAV updated to version 0.98.7.
- Improved overall Connector stability and efficiency.
- Addressed issue where ClamAV would download definitions more often than necessary.
- Resolved issue where Connector sent extraneous file execute events.
- Addressed various memory usage issues.
- Improved DFC engine to robustly handle network events.
- Improved file move event detection data for better representation in Device Trajectory.

## 22 March 2016 Release Notes

- Fixed issue where the connector was not clearing the file scan queue in some cases.
- Improved various UI messages and error notifications.
- Improved messaging for events displayed in the management console.
- Improved error messaging when attempting a custom scan for an invalid path.
- Improved Connector upgrade functionality and console notifications.
- Connector updated to dynamically honor file scan size limits on policy change.
- Fixed various issues with exclusion handling.
- Improved handling of archive files.
- Improved ability of the connector to handle malicious forking executable files.
- Improved Connector compatibility for OS X 10.10 and above.
- Addressed issue where upgrading OS X with the Connector installed would sometimes freeze the system.
- Improved Connector performance when installing from read-only media (e.g. DVDs).
- Addressed issue where cache TTLs were not expiring as expected.
- Changed Support Package creation process improving efficiency and flexibility.
- Added ability to specify custom output path for Support Package using “-o” option.

## 22 March 2016 Release Notes

### AMP for Endpoints Console v5.3.20160322

#### Bugfixes/Enhancements

- Added support for Hangul Word Processor files. These files will now appear in File and Device Trajectory and can be submitted for File Analysis.
- In rare situations where a File Analysis submission keeps failing, AMP for Endpoints would continue trying to submit the file indefinitely. A limit has been added so that it will stop trying to submit the file after seven days.

## 25 February 2016 Release Notes

### 25 February 2016 Release Notes

#### AMP for Endpoints Console v5.3.20160226

##### New

- Weekly reports added with a new interface under Analysis > Reports. Previous reports are still accessible through the old Reports link but you will not be able to create any new reports through that interface. Previously created scheduled reports will continue to run.

### 22 February 2016 Release Notes

#### AMP for Endpoints Mac Connector v1.0.8.352

##### Bugfixes / Enhancements

- Increased local cloud cache size to reduce Connector network usage.
- Improved performance of the local scanning engine.
- Updated exclusions for the version of mail.app included with Mac OS X 10.11.

### 10 February 2016 Release Notes

#### AMP for Endpoints Console v5.3.20160210

##### Bugfixes / Enhancements

- Added the ability to limit the number of Cisco AMP Threat Grid daily submissions consumed by File Analysis and Automatic Analysis. The number of remaining submissions for the day is also displayed.
- You can now select which VM operating system image to use for Cisco AMP Threat Grid file analysis.
- Limited the number of CVE IDs displayed per application on the Vulnerabilities page to the ten most recent and severe.
- Changed the hostnames for the Cisco cloud servers that are used by the Connectors. The cloud servers now use static IP addresses as well to improve customer ability to allow firewall exceptions for endpoint Connector communication. This rollout will be gradually staged among AMP for Endpoints users and a tool will be in the AMP for Endpoints console to help migrate your existing policies to use the new static IP addresses when it becomes available to you.

### 5 February 2016 Release Notes

#### AMP for Endpoints Windows Connector 4.3.1 (superseded by 4.4.4)

##### Bugfixes / Enhancements

- Addressed an issue where AMP for Endpoints Windows Connector v4.3.0.10148 had an issue with quarantining certain malicious files that were digitally signed even though they were detected. Windows Connector v4.3.0.10148 has been removed from the console so you should upgrade as soon as possible. Upgrading from v4.3.0.10148 to v4.3.1.10163 does not require a reboot.
- Addressed an issue where IOC Flash Scans were not correctly cleaning up files from previous scans.

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**IMPORTANT!** This upgrade does not require a reboot when upgrading from version 4.3.0.10148 of the AMP for Endpoints Windows Connector.

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### 15 December 2015 Release Notes

#### AMP for Endpoints Console v5.3.20151215

##### New

- Users can now specify their timezone so dates and times will be displayed in the chosen timezone throughout the Console.
- Clicking a date entry anywhere will show a pop-up menu with additional options.
- Added global search to the menu bar throughout the Console. This is the same search that can be accessed via Analysis > Search.
- Added view changes links that will take you to a filtered view of the Audit Log.
- Added filters to the Audit Log page.

##### Bugfixes / Enhancements

- Redesigned the Audit Log page for usability.
- Cisco AMP Threat Grid API query limits for File Analysis are now shown on the Business page.
- Moved version number to Help dialog.

## 24 November 2015 Release Notes

### AMP for Endpoints Windows Connector 4.3.0 (superseded by 4.4.4)

#### New

- Starting with upgrades from version 4.3.0 to future versions, the AMP for Endpoints Windows Connector no longer requires a reboot after every update.

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**IMPORTANT!** Updates that include major functionality changes or bugfixes may still require a reboot.

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- Added support for Windows 10.

#### Bugfixes / Updates

- Added cloud lookup support for XML, PPT, and DOC files.
- Connector force reboot timer is now configurable via policy to be 2, 10, or 30 minutes.
- TETRA definitions can now be downloaded when the Connector is configured to use a proxy server.
- You can now stop the Connector service via the command line when Connector Protection is enabled.
- Made improvements to the installer for preserving previous command line options.
- Various stability improvements and bugfixes.

## 24 November 2015 Release Notes

### AMP for Endpoints Console v5.2.20151124

#### Bugfixes / Enhancements

- Fixed a bug that caused policy updates to fail in certain situations.
- Added Event Type filters for product updates.
- API now includes file path and name when querying trajectory data.
- MAC addresses for computers are now included in CSV export and API query results.
- Fixed a bug that caused the incorrect file type to be displayed in trajectory data.

## 15 October 2015 Release Notes

### 15 October 2015 Release Notes

#### AMP for Endpoints Console v5.2.20151015

##### New

- An Application Programming Interface (API) is now available, allowing users to access the data and events in their account without logging into the Console.

##### Bugfixes / Enhancements

- Added option to select ClamAV content update frequency in AMP for Endpoints Mac Connector policy.

#### AMP for Endpoints Mac Connector v1.0.7.330

##### Bugfixes / Enhancements

- Added support for OS X 10.11
- Addressed issues causing Time Machine backups to take a long time over AFP.
- Fixed an issue where the Connector would block applications while in Audit mode.
- Optimized Flash Scans for faster performance.
- Various bug fixes.

### 30 September 2015 Release Notes

#### AMP for Endpoints Linux Connector v1.0.0.184

##### New

- New Connector supports CentOS 6.4/6.5/6.6 and Red Hat Enterprise Linux 6.5/6.6
- Includes SHA-256 matching, ClamAV offline engine, and device flow correlation features.
- Supports current lists including Simple Custom Detections, Application Control, Network, and Exclusions.
- New AMP for Endpoints Linux policies can be added to existing AMP for Endpoints Groups.

## 21 September 2015 Release Notes

### 21 September 2015 Release Notes

#### AMP for Endpoints Windows Connector 4.1.4

#### AMP for Endpoints Windows Connector 4.2.1 (superseded by 4.4.4)

##### Bugfixes / Enhancements

- Addressed an issue where the Connector could become disconnected from the cloud. The computer may appear as a newly installed Connector in the default group if this problem occurs. AMP for Endpoints Windows versions 4.1.0.10054, 4.1.1.10073, and 4.2.0.10084 are affected.

### 14 September 2015 Release Notes

#### AMP for Endpoints Console v5.2.20150914

##### Bugfixes / Enhancements

- Several UI improvements to enhance usability and consistency.
- Various bugfixes and improvements.

### 13 August 2015 Release Notes

#### AMP for Endpoints Console v5.2.20150813

##### Bugfixes / Enhancements

- AMP Threatgrid score for files submitted to File Analysis is now displayed.
- New malware samples added to Demo Data.
- Various bugfixes and improvements.

### 21 July 2015 Release Notes

#### AMP for Endpoints Console v5.2.20150721

##### New

- Added an option to subscribe to individual event alert emails.
- You can now export Vulnerable Programs data to a CSV file.

## 16 July 2015 Release Notes

- Added the ability to search for computers by Connector GUID.
- Added new Indication of Compromise event called Suspicious Cscript Launch to flag when Internet Explorer launches a command shell that in turn launched the Microsoft Script Host (cscript.exe).

### Bugfixes / Enhancements

- Improved Groups page interface, including creating and editing groups.

## 16 July 2015 Release Notes

### AMP for Endpoints Windows Connector 4.2.0 (superseded by 4.4.4)

#### Bugfixes / Enhancements

- Enhanced scope of Endpoint IOC flash scan indexing to provide increased coverage. Please refer to the [Cisco Endpoint IOC Attributes](#) document for more information.
- Improved performance during the Endpoint IOC collection phase to reduce collection time.
- Addressed issues where the Connector install would occasionally fail.
- Improved overall Connector stability.
- Various bugfixes.

## 16 June 2015 Release Notes

### AMP for Endpoints Console v5.2.20150616

#### Bugfixes / Enhancements

- Improved User Permissions page interface.
- Improved Outbreak Control lists interface.
- Added the ability to easily revert back to default AMP Threat Grid API key.

## 28 May 2015 Release Notes

### AMP for Endpoints Windows Connector v4.1.1.10073

#### Bugfixes / Enhancements

- Improved efficiency of the exclusion engine when handling wildcard exclusions.
- Fixed a bug that would cause the Connector crash reporting tool to fail.

## 12 May 2015 Release Notes

- Fixed an issue where the Connector would crash if left in debug mode for an extended period of time.
- Fixed a bug where the Connector was unable to retrieve the local computer's fully qualified domain name (FQDN) properly on certain systems.

## 12 May 2015 Release Notes

### AMP for Endpoints Console v5.2.20150512

#### New

- Added the ability for administrators to assign unprivileged users access to view groups, edit policies, and create and edit outbreak control lists.

#### Bugfixes / Enhancements

- Fixed an issue so that all user actions on Advanced Custom Detection lists are now recorded in the Audit Log.

## 16 April 2015 Release Notes

### AMP for Endpoints Mac Connector v1.0.6.292

#### New

- Added the ability to specify the output path of Support Packages with a command line parameter.

#### Bugfixes / Enhancements

- Performance improvements in the file scanning engine for more efficient calculation of file hashes and ClamAV scanning.
- Added additional monitoring of startup plist files for more IOC detection capabilities.
- Eliminated incorrect notifications when attempting a manual policy sync through the endpoint UI.
- Resolved issue where erroneous log messages appeared at system startup.
- Less ambiguous endpoint notifications by displaying "Off-line" when system is not connected to a network or the interface is disabled and "Service Unavailable" if there are problems connecting to the cloud.

### 7 April 2015 Release Notes

#### AMP for Endpoints Console v5.1.2015040718

##### New

- Vulnerabilities page shows executable files with known vulnerabilities observed by your AMP for Endpoints Windows Connectors.
- Added a configuration item in Policies to enable or disable automatic crash dump log file uploads to the AMP for Endpoints cloud.
- You can now view all applications on devices with the AMP for Endpoints Android Connector installed.
- Added new Indication of Compromise event called Suspicious Download to flag executable files downloaded from numeric public IP addresses over a non-standard port.

##### Bugfixes / Enhancements

- Fixed an issue that cause files older than 30 days not to be displayed on the File Analysis page.
- Fixed an issue that caused some data not to be visible in Device Trajectory when the page was accessed from search results.
- Added IP addresses to CSV exports from the Computers page.

### 26 March 2015 Release Notes

#### AMP for Endpoints Console v5.1.2015032618

##### Bugfixes / Enhancements

- AMP for Endpoints Mac Connector policies updated to improve cloud query efficiency.

### 12 March 2015 Release Notes

#### AMP for Endpoints Windows Connector v4.1.0.10054

##### New

- ClamAV engine updated to version 0.98.5
- TETRA engine updated to version 3.0.0.71
- Connector process protection added for Windows Vista, Windows 7, Windows Server 2003, and Windows Server 2008.

## 4 March 2015 Release Notes

### Bugfixes / Enhancements

- Added enforcement of size limits for Connector log files to a maximum of 10 files, each up to 50MB in size at any given time.
- Advanced Custom Signatures can now be dynamically applied without restarting the Connector.
- Improved error reporting during policy update failures.
- Connector uninstall events are now properly reported from behind a proxy.
- Connector is now able to perform Identity Synchronization from behind a proxy.
- Fixed a bug where the Connector could crash when scanning certain file types.
- Fixed a vulnerability where an unprivileged user could cause the Connector to crash through the UI.
- Fixed a bug where using the Microsoft Application Verifier tool could cause the Connector to crash.

## 4 March 2015 Release Notes

### AMP for Endpoints Console v5.1.20150304

#### New

- Low Prevalence Executables can be configured to automatically be submitted for File Analysis.
- Export computer details to a CSV file from the Computers page.
- Announcements will alert the user of new releases or upcoming system maintenance.
- Added support for entering a custom Cisco AMP Threat Grid API key.

### Bugfixes / Enhancements

- Added the ability to bulk delete computers from the Computers page.
- Improved bulk move operations on the Computers page.
- Fixed a bug where incorrect files were being downloaded when the user tried to download PCAP files from File Analysis.
- File Analysis search is now performed either in the Your Files or Global Files context.
- Removed the Connector 3.0 ClamAV Compatibility Mode policy setting because AMP for Endpoints Windows Connector 3.0 is deprecated and no longer supported, making this option obsolete.

### AMP for Endpoints Mac Connector v1.0.5.279

#### New

- AMP for Endpoints Mac Connector officially certified on OS X 10.10.

#### Bugfixes / Enhancements

- Addressed compatibility issue with OS X mail.app where malicious emails are continually downloaded and quarantined by the AMP for Endpoints Mac Connector. The Connector now detects and notifies that malicious emails are present but does not quarantine malicious .emlx files created by mail.app. It is left to the administrator to remove the malicious email from the server manually. If mail.app is configured to automatically download attachments and those are determined to be malicious, the Connector will continue to quarantine those attachments.

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**IMPORTANT!** This fix only affects OS X mail.app. Other email applications may behave differently.

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- Resolved a rare issue where the Connector is unable to sync policies for some period of time.
- Addressed a performance issue where users experienced high CPU usage after waking the computer from sleep or performing a reboot.
- Fixed high CPU usage issues on OS X 10.10 due to changes in Spotlight.
- Eliminated a race condition where kernel extensions were unable to successfully unload on shutdown or reboot.
- Improved Connector validation of user-created exclusions.

### 18 February 2015 Release Notes

#### AMP for Endpoints Console v5.1.20150218

##### Bugfixes / Enhancements

- Upgraded AMP for Endpoints Mac Connector protocol version to improve compatibility and reliability. This update is required to ensure future connectivity between the Cisco cloud and AMP for Endpoints Mac Connectors. All AMP for Endpoints Mac Connector policies will be updated to enable this change.
- Fixed a bug to address compatibility of the OpenIOC format with the AMP for Endpoints Endpoint IOC engine. Users experiencing false positives with Endpoint IOCs should re-upload them.

### 5 February 2015 Release Notes

#### AMP for Endpoints Console v5.1.20150204

##### Bugfixes / Enhancements

- Fix to allow users to search File Analysis results by SHA-256 or file name.

### 29 January 2015 Release Notes

#### AMP for Endpoints Console v5.1.20150129

##### New

- File Analysis now fully integrated with Cisco AMP Threat Grid.
- The Computers page can now be filtered by the last time an endpoint connected to the Cloud.
- Added a new UI feature to view all dates and timestamps in various formats by right-clicking the date to open a context menu.

## 11 December 2014 Release Notes

### Bugfixes / Enhancements

- Performance improvements to Device Trajectory load times.

## 11 December 2014 Release Notes

### AMP for Endpoints Console v5.1.20141211

#### New

- Added the ability to create administrator and unprivileged user accounts in the AMP for Endpoints Console.

### Bugfixes / Enhancements

- Fixed cross-site scripting issues on several pages.
- Various minor bugfixes and enhancements in page appearance.

## 2 December 2014 Release Notes

### AMP for Endpoints Mac Connector v1.0.4.259

### Bugfixes / Enhancements

- Fix for a WebDAV kernel panic issue.
- Fix for a race condition that would cause policy update failures.
- Significant performance improvement from file event queue optimization.
- Compatibility update for OS X 10.10 Yosemite related to the metadata indexer.
- Cleanup of erroneous Connector syslog messages.

## 8 November 2014 Release Notes

### AMP for Endpoints Console v5.0.2014

### Bugfixes / Enhancements

- Fixes on various list pages and reports for when users who created the lists or reports have been deleted. The creator of these lists will now show as unknown.
- Fixed a query that occasionally impacted moving groups.
- Allow provisioning to supply multiple email addresses.
- Fixed auto refresh on the Dashboard Overview tab.

## 1 November 2014 Release Notes

### 1 November 2014 Release Notes

#### AMP for Endpoints Console v5.0.20141031

##### Bugfixes / Enhancements

- Various bugfixes for support cases.

### 28 October 2014 Release Notes

#### AMP for Endpoints Console v5.0.20141028

##### New

- Added Group Filter to Dashboard, Threat Root Cause, and Deployment Summary pages that allow the view to be filtered based on selected Groups.

##### Bugfixes / Enhancements

- Redesigned Computers page with new computer view. You can now filter the view and move multiple computers to new Groups.
- Redesigned Users page with new layout. You can now search user accounts by name and email address and quickly access your own account.
- Installed Endpoint IOCs page now allows you to filter view based on the Endpoint IOC state and also activate, deactivate, and delete Endpoint IOCs in bulk.

### 23 October 2014 Release Notes

#### AMP for Endpoints Windows Connector v4.0.2.10018

##### New

- Expanded official support for Endpoint IOC scans to include all Windows platforms supported by the AMP for Endpoints Windows Connector.

##### Bugfixes / Enhancements

- Various bugfixes to improve the IOC Scanner engine.

### 16 October 2014 Release Notes

#### AMP for Endpoints Mac Connector v1.0.3.228

##### New

- Added Event History, Policy View, Local Scanning, and Headless Mode to the user interface.

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**IMPORTANT!** If the user interface is not visible on a Connector after the update, check the Start Client User Interface setting in your policy.

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**IMPORTANT!** Connectors upgrading from 1.0.2 will not show all previous events in the History Pane.

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##### Bugfixes / Enhancements

- Added notifications for Device Flow Correlation, definition updates, Cloud Recall, and product updates.
- Updated ClamAV library to support scanning raw DMG files.
- Performance improvements.
- Various fixes for support cases.

### 8 October 2014 Release Notes

#### AMP for Endpoints Console v5.0.20141008

##### Bugfixes / Enhancements

- Enhanced Endpoint IOC documentation regarding time expectations for re-cataloging of attributes.
- Better identification of Computers page for running scans for individual computers.
- Removed Send Files for Analysis policy item and turned this setting off for all AMP for Endpoints Connectors.
- Removed On Copy Mode and On Move Mode policy items and made these settings Passive for all AMP for Endpoints Connectors.
- Removed Unseen Cache TTL policy item as this was not used by the AMP for Endpoints Connector.
- Various fixes for support cases.

### 7 October 2014 Release Notes

#### AMP for Endpoints Windows Connector v4.0.1.10011

##### Bugfixes / Enhancements

- Fixed a bug caused by the accumulation of archived ClamAV logs that could result in computers running out of disk space. Archived ClamAV logs are now deleted hourly.

#### AMP for Endpoints Windows Connector v3.1.15.9681

##### Bugfixes / Enhancements

- Fixed a bug caused by the accumulation of archived ClamAV logs that could result in computers running out of disk space. Archived ClamAV logs are now deleted hourly.

### 25 September 2014 Release Notes

#### AMP for Endpoints Console v5.0.20140925

##### New

- Endpoint Indication of Compromise (IOC) feature added.

##### Bugfixes / Enhancements

- Minor changes to First Use Wizard.
- Various fixes for support cases.

#### AMP for Endpoints Windows Connector v4.0.0

##### New

- Added Endpoint Indication of Compromise (IOC) scanner.

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**IMPORTANT!** This feature is currently only supported on Windows XP SP3 and Windows 7.

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## 18 August 2014 Release Notes

### Bugfixes / Enhancements

- Fix to address high CPU usage under certain scenarios.

## 18 August 2014 Release Notes

### AMP for Endpoints Mac Connector v1.0.2

- Various bug fixes.
- Added Remote File Fetch functionality.

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**IMPORTANT!** A bug in version 1.0.1 of the AMP for Endpoints Mac Connector prevents upgrading automatically through policy. To upgrade to version 1.0.2 you will have to download the installer and run it manually.

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## 24 July 2014 Release Notes

### AMP for Endpoints Console v4.5.20140724

#### New

- Completely redesigned File Analysis page for better clarity and consistency within the AMP for Endpoints Console.
- Redesigned and consolidated the Connector download page.
- Added Maximum Scan File Size and Maximum Archive Scan File Size items to AMP for Endpoints Windows Connector policies.

#### Bug Fixes/Enhancements

- Minor fixes to online help.
- Addressed an issue where two-step verification was not syncing correctly with the Google Authenticator app.
- Fixed an issue where event filters containing special characters could cause a javascript exception.

### 26 June 2014 Release Notes

#### AMP for Endpoints Console v4.5.20140623

##### New

- AMP for Endpoints Windows Connector installers are now compliant with Authenticode Signature Verification changes (<https://technet.microsoft.com/en-us/library/security/2915720.aspx>).

##### Bug Fixes/Enhancements

- SHA-256 values on File Repository page are now color-coded based on disposition.
- Removed Verbose Notifications policy item from AMP for Endpoints Mac Connector policies.
- Warning added about uploading files greater than 20MB to File Analysis.

### 15 May 2014 Release Notes

#### Connector 3.1.10

##### Bugfixes / Enhancements

- Update to TETRA license information. All Connectors with TETRA enabled should upgrade to this version.
- Fixed an issue when saving Microsoft Excel spreadsheets to a network share.

### 8 May 2014 Release Notes

#### AMP for Endpoints Console 4.5.20140508

##### New

- Google Authenticator app now shows AMP for Endpoints Console as part of the account information.
- Search results now include files that were remotely fetched.
- Outbreak control search results now redirect to the correct list.
- Notification emails are now sent to users when a file is fetched.
- Events page now shows remote file fetch events.
- File fetch content menu updated to indicate status of file.

## 10 April 2014 Release Notes

### Bugfixes / Enhancements

- Deployment URL has been added to Connector email deployment page to allow users to send URL through their own mail accounts.
- Android devices will no longer report as Windows XP under operating system.
- Email addresses with multiple extensions (ie. yahoo.co.uk) will now work correctly.
- Users can now specify a different email address to receive notifications.

## AMP for Endpoints Mac Connector v1.0.1

### Bugfixes / Enhancements

- Over 40 defects related to scanning and caching of files, console events, and cloud functionality addressed.
- Application blocking lists are now honored correctly.
- Fixed an issue that interfered with Time Machine backups over a network.
- Addressed a problem where CPU usage would climb to 100% during an idle state.

## 10 April 2014 Release Notes

## AMP for Endpoints Console v4.5.20140410

### New

- Ability to request individual files from computers running version 3.1.9 of the AMP for Endpoints Windows Connector.

### Bugfixes / Enhancements

- First Use wizard can now be accessed after initial setup from the Management > Quick Start menu item.
- Enhancements to Search page for better quality and clarity of results.
- Beta tag has been removed from the Search feature.
- Updated documentation to include EU-specific AMP for Endpoints servers.
- Minor fixes for Two-Step Verification.
- Redesigned Business page.

## Connector 3.1.9

### New

- Allows AMP for Endpoints administrators to use Remote File Fetch to request individual files from computers.
- Added support for installation on Windows Server 2012.

## 6 March 2014 Release Notes

### Bugfixes / Enhancements

- Fixed an issue with slowness when saving Microsoft Excel spreadsheets to network shares.
- Added support for CNAMEs on initial lookup of AMP for Endpoints servers.
- Address a rare issue that would occur during installation of versions 3.1.5-3.1.8.

## 6 March 2014 Release Notes

### AMP for Endpoints Console v4.5.20140306

#### New

- Two-Step Verification will be an available option for all users.

### Bugfixes / Enhancements

- Detailed file information can now be accessed from the File Trajectory page either by search or by right-clicking the filename or SHA-256 value.
- A single default exclusion set is now created during first use rather than one each for Audit, Protect, and Triage policies.
- Address an issue where policy scheduled scans created in the month of January would fail to run.
- New favicon for the AMP for Endpoints console.
- Added new Indication of Compromise event called Generic IOC to flag suspicious behavior.

## 23 January 2014 Release Notes

### AMP for Endpoints Console v4.5.20140123

#### New

- AMP for Endpoints First Use wizard is now available to new businesses on first login.

### Bugfixes / Enhancements

- Improved search including better filename identification and direct linking to device trajectory when searching.
- Detailed file information can now be accessed from the File Trajectory page either by search or by right-clicking on the filename or SHA-256.
- Policy settings to reduce network traffic from Connector updates and TETRA content downloads.
- Address an issue where demo data was being created with a timestamp of midnight and IOC events were not showing up within the hour.

## 17 December 2013 Release Notes

- Numerous cosmetic and validation fixes for users of all browser types across various pages.
- Upgrade to latest version of Ruby on Rails to address security vulnerabilities.

### AMP for Endpoints Cloud IOC Engine

#### New

- Ability for VRT and AMP for Endpoints engineers to create and express new IOCs in the back office.

## 17 December 2013 Release Notes

### AMP for Endpoints Console v4.4.20131212

#### New

- Beta - Redesigned search page to allow much richer content across both sandbox analysis reports as well as trajectories, groups, policies, and user.

#### Bugfixes / Enhancements

- Redesigned right-click menu for better design consistency with the rest of the console.

## 21 November 2013 Release Notes

### AMP for Endpoints Console v4.4.20131121

#### New

- A new section under the Analysis menu item entitled "Prevalence". Prevalence is an events view of obscure executables in a customer environment to allow for better focus on possible unknown threat vectors that would otherwise be difficult to surface.
- A hidden view of the AMP for Endpoints First Use wizard to provide the sales engineering teams an opportunity to provide feedback before it is released to customers.

#### Bugfixes / Enhancements

- Context sensitivity to the help documentation from the October 24 release making it simpler for customers to find pertinent information quickly.
- Errors encountered during download of connectors now provides an error message to the user.
- Fixed typo on Policy Update Failed event.

## 30 October 2013 Release Notes

- Exclusion paths now handle Yen and Won characters.
- Add informative message to IOC widget for when there are no indications of compromise.
- Fix javascript issue when choosing to deploy connectors via email.
- Address a possible XSS attack using the hostname on the dashboard events page.

## 30 October 2013 Release Notes

### Windows Connector 3.1.6.9505

#### Bugfixes / Enhancements

- Fixed a typo in the error message shown to users during a failed scan.
- Help shortcut removed from the Windows Start Menu and Connector UI as it is no longer required.
- Fixed an inconsistent detection behavior related to detecting files via SHA- 256 and ETHOS.
- Addressed a memory leak in DFC that could occur on 64-bit computers.
- Fixed an issue where exclusions were being ignored when running a custom scan of a drive root directory.
- Addressed a rare issue with NetMotion VPN clients where DFC would prevent it from connecting successfully.
- Fixed a rare case where LMS.exe would sometimes crash after the Windows Connector was installed.
- Addressed a case where missing data would cause Device Trajectory to display an empty file path.

## 24 October 2013 Release Notes

### AMP for Endpoints Console v4.4.20131024

#### Bugfixes / Enhancements

- Made existing help documentation fully indexed and searchable. Please note that it is accessible from the same locations as before and is in the same format.
- Fixed an issue with Device Trajectory in which the right-click menu would always show an unknown disposition even if an item had been identified as malicious or clean.
- Fixed errant removal of DFC Detection event types from the event filter list.
- Address two rare javascript issues that were causing device trajectory to load slowly or incorrectly
- Fixed an issue where pagination of simple custom detection lists could result in a 500 error

### 4 October 2013 Release Notes

#### AMP for Endpoints Console v4.4.2013092717

##### New

- Deployment summary page has been redesigned to allow sorting and export of installation status for Windows connectors
- Faster overall experience due to backend software infrastructure upgrades

##### Bugfixes / Enhancements

- Neutral dispositions have been renamed to Unknown on Device and File Trajectory pages for consistent nomenclature with the Defense Center
- Fix for scenario where deletion of an exclusion set associated with a policy would result in no exclusions for the policy
- Address a javascript error where detection information would not show for move events
- Product update interval in policy has been changed to 60 minutes from 24 hours to allow for more timely Windows connector product updates
- Fix a rare issue with all zero SHA256 would display under Analysis > Events
- Fix for issue where duplicate connectors would show in the console when performing an identity sync by MAC address

### 27 August 2013 Release Notes

#### AMP for Endpoints Console v 4.4.2013082215

##### Bugfixes / Enhancements

- Address an issue where searching for a valid SHA256 would not return a file analysis report
- Fix for case where events would not be rendered when parent SHA for indicator of compromise had no disposition
- Fix for colliding defense center authorizations in rare instances where DC was registered without a valid FQDN
- Fix a rare issue where device trajectory would not render for computers sending up certain filenames
- Users are now notified when copying a policy that has a product update window that occurs in the past
- Allow users to now specify a subscription type when an event filter is created
- Allow sending of filename and path information for Windows connectors to be changed via policy

### 29 July 2013 Release Notes

#### AMP for Endpoints Console v4.4.2013072618

##### New

- Windows connector filenames and paths are now present in Device and File Trajectory when available
- Wildcard exclusions are now available in addition to the current, threat, path, and file extension exclusions
- Events filters can now be selected in their logical groupings to save time when using filters

##### Bugfixes / Enhancements

- Scheduled scan events have been added as event types that can be filtered on
- Events listing on computers page has been replaced with a button that filters events to the chosen computer on the dashboard page
- Address an issue with the heatmap where subgroups containing computers were not always displayed
- Fix for comments always showing zero on one of the event icons
- Fix for Last Modified field not being updated when changes were made to an existing user
- Address an issue where uploading a valid DFC block list would fail erroneously

### 19 July 2013 Release Notes

#### Windows Connector 3.1.5.9394

##### Bugfixes / Enhancements

- Tray icon UI will now shows three states: Connected, Disconnected, and Service Stopped. Previously only Connected and Disconnected were shown.
- Fix driver issue where under certain conditions upgrading from 3.0.6 under Windows XP would not succeed
- Address a race condition where flash scans would not start immediately after connector registration
- Fix an issue in which the UI would show “Disconnected” when connector was running under an account with User privileges only
- Address an issue on Windows XP where network information was not sent at start of connector install
- Fixed a rare condition where connector would show as “Disconnected” on Windows 8

### 27 June 2013 Release Notes

#### AMP for Endpoints Console v4.4.2013062716

##### New

- Event filtering now enabled for all AMP for Endpoints event types
- Full redesign of event subscriptions including subscription emails to provide more pertinent information

##### Bugfixes / Enhancements

- Heatmap now provides ability to drill down to the group in question and shows detections for the last 7 days
- AMP for Endpoints installer now incorporates the group name into the installer name
- Previously saved event filters can now be renamed
- Addressed an issue where the heatmap was showing detections for inactive connectors
- File Analysis, quarantine restore to all computers available from each event
- Top level event buttons added for File and Device Trajectory

### 30 May 2013 Release Notes

#### Windows Connector 3.1.4

##### New

- Full Windows 8 support
- Updated Tetra engine for all supported OSes

##### Bugfixes / Enhancements

- New command line switch /contextmenu to disable right-click menu scanning
- Fixed an issue where installation could fail if another installation was already in progress
- Address a defect where installation was enabled for unsupported OSes
- Fix for issue where rootkit removal never completes and no prompt for removal is given
- Fix for CSIDL exclusions not being honored without restart of connector
- Agent.exe renamed to sfc.exe
- Multiple fixes related to installation in proxied environments

## 06 May 2013 Release Notes

### AMP for Endpoints Console v4.4.20130530

#### New

- Functionality to save and create persistent filters for dashboard events

#### Bugfixes / Enhancements

- Added ability to download policy as XML
- Simple custom detections, application blocking lists, and allow lists can now be renamed
- Addressed an issue where clicking “Create Policy” quickly in succession would result in a silent failure

## 06 May 2013 Release Notes

### AMP for Endpoints Console v4.4.2013050623

#### New

- Added ability to copy an existing policy
- Disposition of the process involved in a DFC event is now displayed where available

#### Bugfixes / Enhancements

- Fixed an issue where a silent failure could occur when updating an existing custom exclusion
- Addressed an issue that could occur when paginating on trajectory search page in Chrome and Internet Explorer

### Synthetic Events

#### New

- Recently added IOC “Suspicious botnet” to identify infections based on a variety of characteristics such as port and DGA (domain generation algorithm) used

## 08 March 2013 Release Notes

### AMP for Endpoints Console v4.4.2013030807

#### New

- Alternate list view now available for dashboard events
- Ability to add comments to individual events in new dashboard list view

## 08 April 2013 Release Notes

- Additional IOCs added for dashboard, event, and trajectory views

### Bugfixes / Enhancements

- Nanosecond timestamps now supported in Device Trajectory for better ordering of events in some cases
- Fixed DFC IP lists not succeeding for more than two IP addresses in rare instances
- Various minor cosmetic and javascript issues in Device Trajectory addressed

## Windows Connector 3.1.1.9252

### Bugfixes / Enhancements

- Fix to ensure completion of Connector upgrades in rare cases where a partial upgrade state previously occurred
- Correct a race condition between Connector startup and uninstalled
- Addressed a failure to find previous Connector versions when upgrading with version check flag

## Synthetic Events

### New

- IOCs added for the following programs executing unknown applications, which in turn launched a command shell
  - Java
  - Acrobat
  - Word
  - Excel
  - PowerPoint

### Bugfixes / Enhancements

- SHAs added to improve efficacy of existing IOCs

## 08 April 2013 Release Notes

## AMP for Endpoints Console v4.4.2013040823

### New

- Completely redesigned Threat Root Cause with greatly increased performance

## 08 April 2013 Release Notes

- Email notifications have been redesigned to include richer and more actionable data
- Events can now be exported as CSV from the dashboard event pages

### Bugfixes / Enhancements

- Clicking an Indication of Compromise (IOC) from the dashboard widget now takes you directly to the highlighted synthetic event in Device Trajectory
- There is a slidable time scale now available in Device Trajectory allowing users to specify the slice of time they wish to view
- Various bugs addressed in policies, identity sync, and general usage based on customer feedback

## Synthetic Events

### New

- New IOC to identify computers where malware has been executed

### Bugfixes / Enhancements

- New SHAs added to improve efficacy of existing IOCs in field