About this release

This document contains important information about the current release. We recommend that you read the whole document.

We do not support the automatic upgrade of a pre-release software version. To upgrade to a production release of the software, you must first uninstall the existing version.

**Release date** — March 28, 2017

**Release build** — 5.0.5

- McAfee® Agent — 5.0.5.658
- McAfee Agent Extension — 5.0.5.131

**Version information**

For McAfee Agent 5.0.x version details, see KB82105.

McAfee Agent 5.0.x can be used only with McAfee® ePolicy Orchestrator® (McAfee® ePO®) 5.1.1 or later and McAfee ePO Cloud. You can manage previous versions of McAfee Agent with the McAfee Agent 5.0.x extensions, but previous versions of the agent extensions cannot manage McAfee Agent 5.0.x clients.
**Supported McAfee products**
For the list of products that McAfee supports, see KB88502.

**Rating — High Priority**

<table>
<thead>
<tr>
<th>Mandatory</th>
<th>Critical</th>
<th>High Priority</th>
<th>Recommended</th>
</tr>
</thead>
</table>
| • High priority for all environments.  
• Failure to apply a High Priority update might result in potential business impact.  
• Most patches and hotfixes are considered High Priority. |
| For more information, see KB51560. | 

**New features**

The current release of the product includes these new features.

**Support for Microsoft Windows 10 Creators Update**
McAfee Agent 5.0.5 now supports Microsoft Windows 10 Creators Update.

For a detailed list of supported operating systems and versions, see KB51573.

> McAfee Agent 5.0.5 does not support Mac OS X 10.6, 10.7 and 10.8.

**Support for Native Mac OS X 64-bit**
McAfee Agent 5.0.5 now supports Native Mac OS X 64-bit.

**Installer improvements**

In the event of shutdown or restart, McAfee Agent 5.0.5 now provides additional information to the user when products are being deployed onto the system.

If the user initiates system shutdown or restart when the agent is deploying products, McAfee Agent notifies the user that the shutdown cannot continue. If continued, this might cause stability issues to the operating system. The user can still proceed with the shutdown operation. Once the product deployment is complete, the user can reinitiate shutdown later by clicking Cancel on the notification displayed. If not, the system automatically proceeds for shutdown.

> McAfee product updates such as DAT and content updates are not affected by this new feature.

**Optional SysCore**

Because McAfee Agent 5.0.5 doesn’t consume SysCore in its installer, it doesn’t upgrade or install SysCore on the system. This makes McAfee Agent installer lightweight and reduces both size of the package and installation time. Once a supported version of SysCore (15.3.0.673 or later) is installed in the system, McAfee Agent starts using its protection capabilities, enables self-protection for files, folders, registry, services, and executables.
**RPM installation for Red Hat Linux devices**

McAfee Agent 5.0.5 now supports deployment of McAfee Agent using third-party tools such as YUM where agent can be deployed in managed mode.

1. Generate rpm (MAProvision.rpm/MAProvision.deb) from install.sh using the option (-p).

2. Check in the rpms (MAProvision.rpm/MAProvision.deb, MFEcma.rpm/MFEcma.deb, MFert.rpm/MFert.deb) into the third-party deployment tools (such as YUM, apt-get) repository.

3. Install McAfee Agent in managed mode using third-party tools. (For example: `yum install MAProvision.rpm`)

**Custom Properties**

Custom Properties is a feature provided by both McAfee ePO and McAfee Agent that allows administrators to report any text value as part of system properties. These system properties can be used to tag and identify systems in McAfee ePO to perform various actions such as assign policies, tasks, and sorting systems in the System Tree. Earlier versions of McAfee Agent (5.0.4 and below) and McAfee ePO (5.3.x and 5.1.x) support only four Custom Properties and the values for these properties can only be set manually from the client system.

Enhanced features of Custom Properties:

- The default number of Custom Properties supported is increased to eight.
- McAfee ePO administrator can perform the following actions:
  - Set Custom Properties remotely from the McAfee ePO console.
  - Allow or deny system administrators to view particular custom property using registry or command line options.
  - Allow or deny system administrators to edit particular custom property using installer or command line options.
  - Grant one-time edit permission to system administrators to change a particular custom property that has write access revoked.
- A custom property which is empty, can be overwritten by system administrators regardless of write policy set.

Starting with McAfee Agent 5.0.5, you can set up to eight Custom Properties. When using McAfee Agent 5.0.5 with earlier versions of McAfee ePO (before 5.9.0), the first four (1–4) Custom Properties are reported as part of system properties that can be effectively used for tagging, queries, and quick find features. The remaining four (5–8) Custom Properties cannot be used for tagging features and are reported as part of McAfee Agent product properties.

The following table explains the behavior of Custom Properties in the System Properties page for different versions of McAfee ePO and McAfee Agent.

<table>
<thead>
<tr>
<th>McAfee ePO</th>
<th>McAfee Agent</th>
<th>Number of Custom Properties McAfee Agent supports</th>
<th>Number of Custom Properties McAfee ePO supports</th>
<th>Custom property tagging</th>
<th>Properties reported on McAfee Agent tab on McAfee ePO Console</th>
<th>Custom Properties reported as system property</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1.x and 5.3.x</td>
<td>5.0.4 and earlier</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>5.1.x and 5.3.x</td>
<td>5.0.5 and later</td>
<td>8</td>
<td>4</td>
<td>4</td>
<td>8</td>
<td>4</td>
</tr>
</tbody>
</table>
### McAfee ePO and Custom Properties Support

<table>
<thead>
<tr>
<th></th>
<th>McAfee Agent</th>
<th>Number of Custom Properties</th>
<th>Number of Custom Properties</th>
<th>Custom property tagging</th>
<th>Properties reported on McAfee Agent tab on McAfee ePO Console</th>
<th>Custom Properties reported as system property</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0.4 and earlier</td>
<td>4</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>5.0.5 and later</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

### Custom Properties Policies

System administrators’ action on Custom Properties is based on the following policy conditions:

- **Allow view** — Enable or disable system administrators to view particular custom property.
- **Allow edit** — Enable or disable system administrators to edit particular custom property.

### Configure Custom Properties Policies

You can determine which policies for Custom Properties are set on the client system.

1. Select **Menu | Policy | Policy Catalog**.
2. From the Product list, select **McAfee Agent**, and from the Category list, select **Custom Properties**.
3. Click **New Policy**, type the policy name, then click **OK**. To edit an existing policy, click the policy **Name**.
4. Click the new policy name you created from the Policy Catalog page.
5. Set the **Allow view** and **Allow edit** options for each custom property as needed.
6. Click **Save**.

### Custom Properties Task

McAfee ePO administrator can set the Custom Properties remotely through tasks.

- **Set Values** — Enable or disable setting custom property value through a task.
  - **Overwrite client system values**
    - If **Overwrite client system values** is enabled, a new value overwrites the existing value regardless of the value set on the client system.
    - If **Overwrite client system values** is disabled and the property is empty on the client system, a new value is set.
  - **Value** — A new value that needs to be set on the client system.

- **Grant one-time edit permission** — Enable or disable McAfee ePO administrator to grant one-time edit permission through a task.
  - **One-time edit permission** — Grant one-time edit permission for system administrators to edit a particular custom property on the client system.

### Configure Client Task

Configure the level of access control that you need on the client system.

1. Select **Menu | Policy | Client Task Catalog**.
2. From the **Client Task Types** list, select **McAfee Agent | Custom Properties**.
3 Click New Task, select the Custom Properties task, then click OK.

4 Type a name and description for the task.

5 In Custom Properties, configure these fields as needed:
   • Set Values — Configure the Custom Properties settings.
   • Grant one-time edit permission — Configure the one-time edit permission option for each custom
     property.

6 Click Save.

Setting Custom Properties on client system

System administrators’ action on Custom Properties is based on the following policy conditions:
• If the Allow edit option is enabled in the policy, system administrators can change a custom property
  any number of times using maconfig/frminst.
  • maconfig tool options
    On the command line, enter the string that is appropriate for your operating system:
    • Windows operating systems: maconfig.exe -custom -prop1 "prop1" -prop2
      "prop2".........-prop8 "prop8"
    • Non-Windows operating systems: maconfig -custom -prop1 "prop1" -prop2
      "prop2".........-prop8 "prop8"
  • frminst command line options
    • Windows operating systems: frminst.exe /install=Agent /customProps1="prop1" /
      customProps2="prop2"........./customProps8="prop8"

• If the Allow edit option is disabled in the policy, system administrators:
  • Can edit a custom property if the value on the client system is blank.
  • Can edit a custom property once if McAfee ePO administrator has granted a one-time access
    permission to the property.
  • Cannot edit a custom property if the property already contains a value and is not permitted with
    one-time access.
• If the Allow view option is enabled in the policy, system administrators can view the custom property
  value either from the registry or using cmdagent.
  • cmdagent tool options
    On the command line, enter the string that is appropriate for your operating system:
    • Windows operating systems: cmdagent.exe -x
    • Non-Windows operating systems: cmdagent -x
If the Allow view option is disabled in the policy, system administrators cannot view the custom property value either from the registry or using cmdagent.

### Resolved issues

The current release of the product resolved these issues. For a list of issues fixed in earlier releases, see the Release Notes for the specific release.

#### Security

- McAfee Agent has additional protection for selected McAfee Agent processes against untrusted third-party code injection.
  - Additional protection mechanisms in McAfee Agent allow amcore DAT files to update successfully. (1156417)
  - McAfee Agent is protected against third-party software that injects unsigned DLLs into its MSI installer. (1140159)
- An attacker can no longer block McAfee Agent installation on Mac operating systems. (1167125)
- The redundant file ServerSitelist.xml is now removed from McAfee Agent data directory (Windows). (1145517)
- McAfee Agent can be optionally installed to run macmnsvc with root credentials (Linux and Mac). This option is used only if McAfee Agent must use port numbers lesser than 1024. (1159984)
  
  This option is not intended for general deployment due to increased security risk associated with running an application under increased higher levels of permission.

- McAfee Agent now fixes a vulnerability in its remote log viewing feature. For more information, see SB10183. (1175656)

#### Installation

- During an upgrade to a new version, McAfee Agent displayed Error 1404. Could not delete key SOFTWARE \McAfee\McTray\McAfeeCommonUpdaterPlugin. This issue is resolved as part of this release. (1119005)
- McAfee Agent now continues to work as expected when you upgrade Mac operating system to the latest version. (1171623)
- When McAfee Agent is upgraded using framepkg_upd.exe, the agent GUID is maintained. (1150248)
- McAfee Agent SmartInstaller now alerts the user about unsupported operating systems during installation. (1156043)
- McAfee Agent now supports installation on systems with 1 TB of root directory. (1176668)
- Appropriate platform checks are now added to avoid invalid package usage. (1173330)
- McAfee Agent now successfully sets the custom properties when the agent is upgraded using framepkg.exe. (1180097)
- On Linux based operating systems, McAfee Agent now supports upgrades using native installer without changing the agent mode. (1181047)
- After installing McAfee Agent on Mac operating system (10.11 or 10.12), the guest user account no longer disappears from the logon screen, Parental Controls page, and from the Show fast user switching menu as drop-down list. (1183541)
Performance

- The `masvc` service no longer consumes high CPU during the deployment of McAfee Agent, McAfee® VirusScan® Enterprise, and McAfee® Host Intrusion Prevention. (1151460)
- McAfee Agent common services memory utilization now remains almost constant. (1176972)

Product manageability

- The load balancer is now disabled in the repository policy when the Master Repository is disabled. (1135477)
- The `User Name` on the McAfee ePO system property no longer displays `staff[User Name]` format. (1127558)
- Priority event forwarding now works as expected if `Forward events with a priority equal or greater than` is set to `Informational`. (1143509)
- McAfee Agent maintains the agent GUID correctly in `EventFilter.ini` and `Eventpolicies.ini` files. Hence, threat events generated by McAfee® Endpoint Security for Mac now parse successfully by McAfee ePO. (1145877)
- With McAfee Agent installed on RHEL 7 / kernel 3, `masvc` process no longer triggers an auto-mount for every directory configured to do an auto-mount. (1146186)
- McAfee Agent repository now calculated correctly with `Ping time` and `Subnet distance` for UNC and other distributed repositories based on repository selection criteria. (1147041)
- McAfee Agent Windows Management Instrumentation (WMI) service no longer fails with high frequency of agent-server communication. (1148133)
- McAfee Agent now honors the `Enable agent-to-server communication` option in the McAfee Agent General policy. (1149908)
- Priority event forwarding on Mac now works as expected if `Forward events with a priority equal or greater than` is set to `Major`. (1150073)
- When McAfee ePO tried to close agent-server communication, McAfee Agent didn’t respond and left an open connection on the server. This caused connection refusal for incoming agent-server communication requests and resulted in subsequent ASC failures. This issue is resolved as part of this release. (1151125, 1160278)
- McAfee Agent now expands the environment variables correctly. Hence, updates are successful. (1152089, 1151991)
- On Mac systems, agent-server communication was failing due to corruption in McAfee Agent database. McAfee Agent now removes the corruption and ASC happens successfully. User can see additional logging. (1154813)
- McAfee Agent now collects and reports `Computer Name` and `Computer Description` property correctly. (1156997)
- McAfee Agent now displays next agent-server communication interval appropriately in minutes and seconds. (1158811)
- McAfee Agent now honors the proxy exclusion list when updating the contents. (1160500)
- On upgrading Mac operating system from El Capitan to Sierra, the agent temp folder was getting deleted causing DAT updates to fail. Now, the temp folder gets re-created if it is deleted during OS upgrade, and DAT update happens successfully. (1164138)
• McAfee Agent now identifies and reports the operating system properties of Oracle Enterprise Linux correctly. (1177377)

• McAfee Agent 5.0.5 early adoption build had compatibility issues with McAfee Application Control when executing its task. This issue is resolved as part of this release. (1186843)

**Scheduler**

• McAfee Agent now runs the weekly task as selected in the Scheduled type, regardless of Effective period settings. (1097369)

• McAfee Agent runs client tasks according to the value defined in the stop the task if it runs for option with the maximum client task runtime limit set to 7 days. (1137561)

• McAfee Agent now runs client tasks to completion, if the task runs more than a day, when the stop the task if it runs for option is disabled. (1149133)

• McAfee Agent 5.0.x tasks run on schedule, regardless of Daylight Saving Time change. (1169150)

• McAfee Agent daily client tasks no longer ignore randomization on the first execution when configured to repeat. (1170626)

• After execution of a missed weekly task, masvc service does not crash. (1174770)

• McAfee Agent now runs monthly tasks as scheduled after Daylight Saving Time change. (1177597)

• VirusScan Enterprise console now displays Repeat Task | Until time appropriately post execution of policy enforcement on the client system. (1176491)

• McAfee Agent now honors the value set for the Stop the task if it runs for option, and stops the task as expected. (1184759)

**SuperAgent**

• McAfee Agent now gets updates from the SuperAgent repository. (1141930)

• Earlier version of McAfee Agent 5.0.X failed to parse the http headers when the HTTP packets were divided into smaller packets. Hence SuperAgent replication failed. This issue is resolved as part of this release. (1178878, 1146508)

• Deployment or update from SuperAgent repository no longer fails on a slow network. McAfee Agent 5.0.5 download timeout is increased from 30 minutes to six hours. (1186815, 1179602)

**Updater**

• The masvc and macompatsvc services successfully handle the update status requests when Mue is closed unexpectedly. (1171959)

• McAfee Agent version is now updated with the appropriate agent version number in the agent script files. (1171360)

• McAfee Agent does not send emails to the root account now, when running the McAfee Agent service health check script. (1124734)

• McAfee Agent now runs the executables only after successful update. (1140423)

• Executables run after each update if Run only after successful updates is disabled. (1144855)

• A generic script error no longer occurs when an update task tries to update the DAT version. (1157468)
• McAfee Agent no longer displays McAfee Agent no longer displays McAfee Agent was blocked from accessing errors in macmnsvc.log. AAC-related messages are logged on to mfemactl.log for McAfee support. (1131768)

• ExtraDAT file no longer downloads every time the update runs. (1178366)

**Other**

• McAfee Agent installer files are now added to Peer-to-Peer repositories on Linux systems. (1174965)

• The McAfee Agent product deployment client task page now displays a product list when creating a New Task via New Client Task Assignment. (1108223)

• Data channel messages no longer upload continuously because of SQLite database write issues. (1148533)

• The message bus no longer duplicates messages between client and server applications. (1152701)

• McAfee Agent when received certain HTTP sequences on the agent wake-up communication port, the macmnsvc process closed unexpectedly. This issue is resolved as part of this release. (1138077)

• When you select language used by agent as Spanish (or any non-English language) and perform an update, the agent log messages were marked as desconocido (or unknown). Now, the update task displays Información on the agent monitor screen. (1152520)

• McAfee Agent now detects the platform and determines the respective bit (32-bit or 64-bit) of McAfee Agent to be installed. (1169657)

• McAfee Agent now displays the correct Audit Log entry details. (1178500)

• McAfee Agent smartinstaller no longer fails if there is a space in the computer name. (1179758)

---

**Installation instructions**

For information about installing or upgrading McAfee Agent, see the *McAfee Agent Product Guide PD26439.*

---

**Known issues**

For a list of known issues in this product release, see this McAfee KnowledgeBase article: *KB83895.*

---

**Getting product information by email**

The Support Notification Service (SNS) delivers valuable product news, alerts, and best practices to help you increase the functionality and protection capabilities of your McAfee products.

To receive SNS email notices, go to the SNS Subscription Center at [https://sns.secure.intelsecurity.com/signup_login](https://sns.secure.intelsecurity.com/signup_login) to register and select your product information options.
Find product documentation

On the ServicePortal, you can find information about a released product, including product documentation, technical articles, and more.

**Task**

1. Go to the ServicePortal at https://support.mcafee.com and click the Knowledge Center tab.

2. In the Knowledge Base pane under Content Source, click Product Documentation.

3. Select a product and version, then click Search to display a list of documents.