



Intel® Management and Security Status Application

User's Guide

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1 Introduction

This guide describes how to install and use the Intel® Management and Security Status Application, an application that displays information about a platform's Intel® Active Management Technology (Intel® AMT), Intel® Standard Manageability, Level III Manageability Upgrade, Intel® Anti-Theft, Intel® Remote PC Assist (Intel® RPAT) services.

The Intel® Management and Security Status icon indicates whether Intel® AMT, Intel® Standard Manageability, Intel® RPAT, Level III Manageability Upgrade and Intel® Anti-Theft are running on the platform. The icon is located in the notification area. By default, each time Windows* starts, Intel® Management and Security Status starts and the notification icon is displayed.

The Intel® Management and Security Status application has a separate version per every Intel® AMT generation (4.x, 5.x, 6.x). **This User Guide describes the Intel® Management and Security Status application for Intel® AMT generation 6.x.**

Note: If the Intel® Management and Security Status application starts automatically as a result of the user logging on to Windows, the icon will be loaded to the notification area only if Intel® AMT, Intel® RPAT, Level III Manageability Upgrade or Intel® Standard Manageability is enabled on the platform. If the Intel® Management and Security Status application is started manually (via the Start menu), the icon is loaded even if none of these technologies is enabled, as long as all the drivers have been installed.

Note: The information displayed in the Intel® Management and Security Status is not shown in real time. The data is refreshed at different intervals.



2 *System Requirements*

To enable installation and use of the Intel® Management and Security Status Application, the following are required on the platform:

- Intel®5 Series Express Chipset with Intel ® AMT / Intel ® Remote PC Assist Intel ® Standard Manageability or Level 3 Manageability Upgrade
- Windows* XP / Windows Vista* / Windows 7* 32/64 bit versions
- Microsoft* .NET Framework 2.0 or 3.5 (version 3.5 is preferred)
- The Intel® MEI driver.
- User Notification Service (UNS)
- Local Manageability Service (LMS)

Note: For Intel® AMT versions 6.0 and 6.1 there is a bundled installation package for the following components: Intel® Management and Security Status Application, Intel ® MEI driver, LMS, UNS and SOL driver. Please see the Bring-up User Guide for more information.



3 *Installation*

The Intel® Management and Security Status Application is automatically installed with the Management Engine components.

The installation process consists of two steps: Installing the Microsoft* .NET framework (a requirement for running the software); and installing the status application. The order of the steps is imperative (always install the framework before the Intel® AMT applications).

3.1 **Installing Microsoft* .NET Framework 3.5**

1. Download Microsoft* .NET Framework 3.5 (**dotnetfx35.exe**) from Microsoft's* website. One link to the installer application is <http://download.microsoft.com/download/6/0/f/60fc5854-3cb8-4892-b6db-bd4f42510f28/dotnetfx35.exe>.

Installing the version available in that location ensures that you are using the latest version required by the software package.

The downloading process may take several minutes.

Double-click the downloaded application.

2. The installer extracts the contents and displays the **Supplemental License Terms** screen.
3. Read the license content and select the **Accept** option to proceed with the installation.
4. When the installer finishes, press the **Finish** button.

3.2 **Installing all SW components**

The installer (**Setup.exe**) is located in the firmware kit at **Drivers\MEI_SOLInstaller** (and in the zip file at **Drivers\ME_IS** for the InstallShield version).

Note: The location and name of the installation program may be different, depending on the OEM's choice.



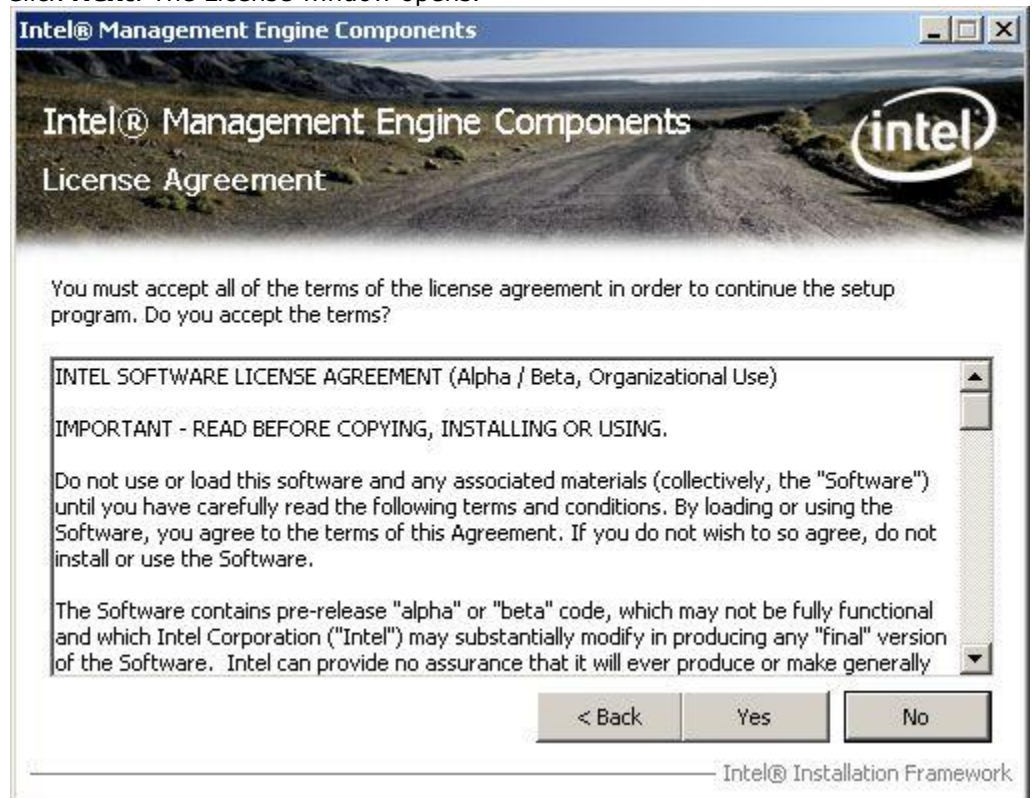
1. Double-click the installer to install the following components (**Note:** The location and name of the installation program may be different, depending on the OEM's choice):
 - a. Intel ® MEI
 - b. SOL driver
 - c. Local Manageability Service (LMS)
 - d. User Notification Service (UNS)
 - e. Intel® Management and Security Status Application.

As a result the Welcome window opens.





2. Click **Next**. The License window opens.





3. Read the license conditions and click **Yes** to accept them.
A Readme file displays system requirements and other information about the application.





4. Read the information in the Readme file and click **Next**. The installation begins, displaying its progress in the window.






5. When the installation is complete, click **Next** in the Setup Progress window, and click **Finish** in the **Setup is Complete** window.





4 *Using the Intel[®] Management and Security Status Application and Icon*


Whenever either Intel[®] AMT, Intel[®] RPAT, Intel[®] Standard Manageability or Level III Manageability Upgrade is enabled, Intel[®] Management and Security Status icon is loaded into the notification area when Windows* starts. It can also be started by clicking **Start> All Programs\Intel\Intel[®] Management and Security Status\Intel[®] Management and Security Status**.

While the Intel[®] Management and Security Status is running, the Intel[®] Management and Security Status icon is visible in the notification area.  This icon will appear blue if any one of the aforementioned technologies is enabled on the computer. In any other case, the icon will appear gray. (**Note:** The icon will also be gray if the UNS service is not running or the MEI driver is disabled or unavailable.)

To view the Intel[®] Management and Security Status Application:

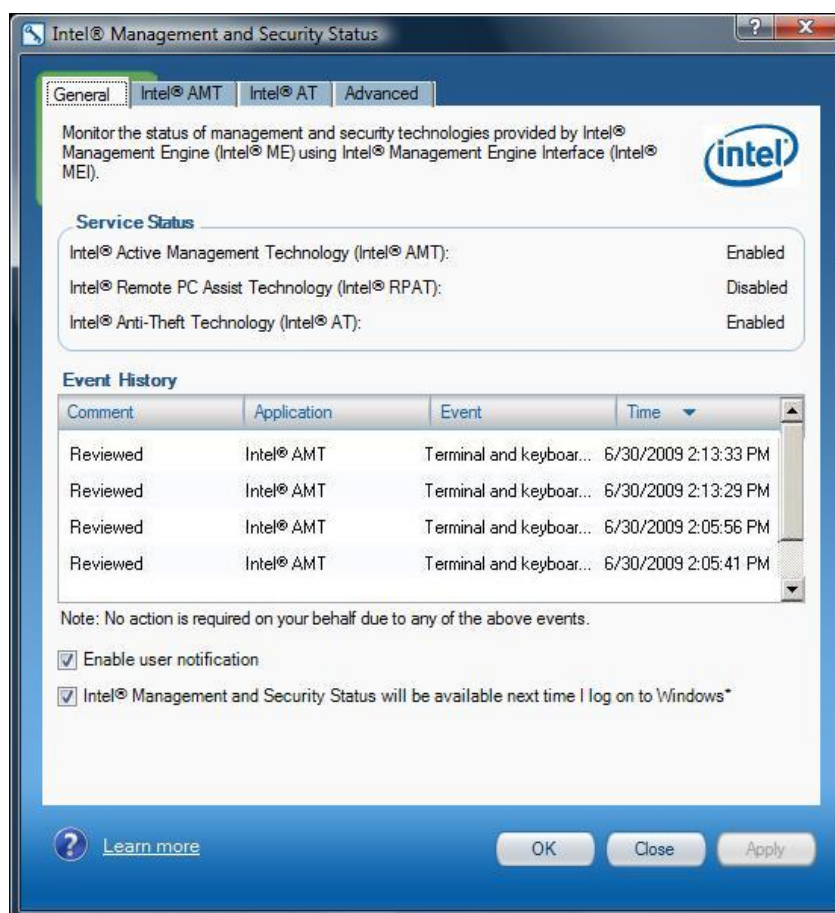
- Double-click the Intel[®] Management and Security Status icon, or
- Right-click the icon and choose **Open**, or
- Click **Start> All Programs>Intel>Intel[®] Management and Security Status>Intel[®] Management and Security Status**.

Note: if your computer is set to Classic start menu - path will start with 'Programs' instead of 'All Programs'. In addition, settings presented above are the default – in case the user has changed the location during installation the path will be different.

The following sections describe the information available in the application's tabs. Information about the application is available also by clicking either the **Learn more** button  or link.

4.1 General Tab

The **General** tab provides basic information about the Intel® AMT, Intel® Standard Manageability, Level 3 Manageability Upgrade, Intel® Anti-Theft, and Intel® RPAT status and events.



Events and some of their details are displayed in the **Event History** section. These can be sorted by clicking on the relevant column header.

The status of Intel® AMT, Intel® Standard Manageability, Level 3 Manageability Upgrade, Intel® Anti Theft or Intel® RPAT is displayed in the **Service Status** section depending on which technology is operational on the system. The tab displays information for either Intel® AMT, Intel® Standard Manageability, or Level 3 Manageability Upgrade. The status can be one of the following:

- **Intel® AMT:** Enabled / Disabled / Information unavailable

When Intel® AMT status presents Enabled it means that the Intel® AMT technology is supported on the system. Intel® ME status (in the Advanced Tab) will give the user information on whether the Intel® ME is configured (hence Intel® AMT is functional and operating).



When Intel ® AMT status presents Disabled it means that the Intel ® AMT technology is not supported on the system or that Intel ® AMT is disabled in MEBx.

Information unavailable: It is not known whether Intel ® AMT technology is supported on the system. No Intel ® AMT information is available. This can be for one of the following reasons: UNS service has stopped, or the MEI driver is disabled.

- **Intel Standard Manageability:** Enabled / Disabled / Information unavailable

When Intel ® Standard Manageability status presents Enabled it means that the Intel ® Standard Manageability technology is supported on the system. Intel ® ME status (in the Advanced Tab) will give the user information on whether the Intel ® ME is configured (hence Intel ® AMT is functional and operating).

When Intel ® Standard Manageability status presents Disabled it means that the Intel ® Standard Manageability technology is not supported on the system.

Information unavailable: It is not known whether Intel ® Standard Manageability technology is supported on the system. No Intel ® Standard Manageability information is available. This can be for one of the following reasons: UNS service has stopped, or the MEI driver is disabled.

- **Level III Manageability Upgrade:** Enabled / Disabled / Information unavailable

When Level III Manageability Upgrade status presents Enabled it means that Level III Manageability Upgrade technology is supported on the system. Intel ® ME status (in the Advanced Tab) will give the user information on whether the Intel ® ME is configured (hence Level 3 Manageability Upgrade is functional and operating).

When Level 3 Manageability Upgrade status presents Disabled it means that the Level 3 Manageability Upgrade technology is not supported on the system or that Level 3 Manageability Upgrade is disabled in MEBx.

Information unavailable: It is not known whether Level 3 Manageability Upgrade technology is supported on the system. No Level 3 Manageability Upgrade information is available. This can be for one of the following reasons: UNS service has stopped, or the MEI driver is disabled.

Intel® Anti-Theft: Enabled. This means that the Intel® Anti-Theft feature is supported on the platform (note that the feature becomes activated only after the platform has been enrolled with an Intel® Anti-Theft service provider). If Intel® Anti-Theft is not supported on the platform, no reference to it is displayed.

Note: The information in this field shows the state of the platform when the Intel® Management and Security Status application was last launched.

- **Intel® RPAT:** Enabled / Disabled / Information unavailable

When Intel ® RPAT status presents Enabled it means that the Intel ® RPAT technology is supported on the system.

When Intel ® RPAT status presents Disabled it means that the Intel ® RPAT technology is not supported on the system.

Intel ® Management and Security Status will be available next time I log on to Windows: Checking this box causes the Intel® Management and Security Status Application to be invoked, and the icon to be displayed, whenever you log on to Windows*.



Note: The application does not load automatically with Windows* log-on if none of the technologies it displays (Intel® AMT, Intel ® Standard Manageability, Intel® Anti-Theft, Level III Manageability Upgrade or Intel® RPAT) is enabled on the platform.

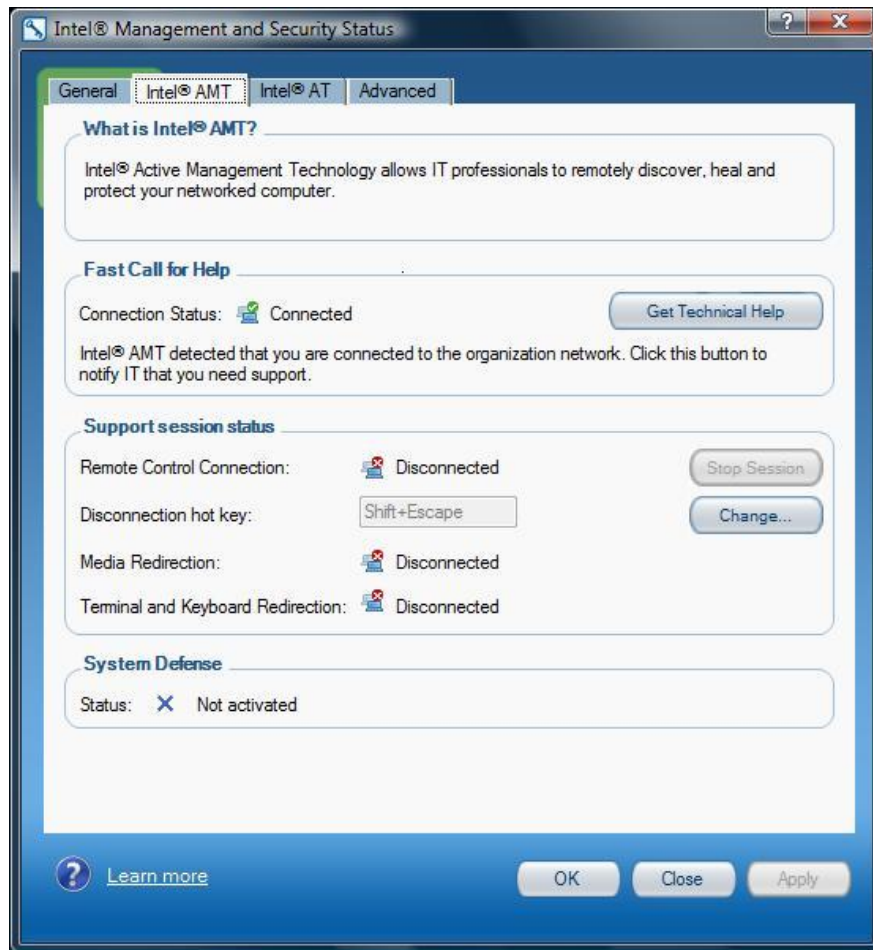
Enable user notification: This option will allow the user to enable or disable Intel® Management and Security Status icon from displaying important notifications in the notification area (for instance notification will be sent when one of the technologies is enabled or disabled).



4.2 Intel® AMT Tab

Note: This tab is displayed only if the platform supports Intel® AMT.

Click the **Intel® AMT** tab to display Intel® AMT information.



4.2.1 Fast Call for Help

The Fast Call for Help section provides CILA (Client Initiated Local Access) or CIRA (Client Initiated Remote Access) capabilities depending on whether the system is connected to the corporate network or not, respectively.

CIRA allows a user to connect the Intel® AMT system to the company's Information Technology network from an external internet connection. Click the **Get Technical Help** button to connect to your Information Technology network for system



diagnostics and maintenance. The current connection status is displayed in this section as well.

CILA (Client Initiated Local Access) feature allows a user connected to the internal corporate network to send a support request to the IT administrator.

Note: The information displayed in the Intel® Management and Security Status, including the Fast Call for Help section, is not shown in real time. The data is refreshed every time an event has arrived.

Note: When the user is connected as Guest account (in Windows*) the "Fast Call For Help" section will be grayed out. This was designed to prevent users outside of the organization to influence the organization network.

4.2.2 Support Session Status Section

The following information is provided:

- **Remote Control Connection**

Indicates whether there is any open KVM (Keyboard, Video & Mouse) Remote Control session (Connected / Disconnected / Information unavailable).

Note: When using server or mutual authentication, information is displayed only if a certificate exists.

Click the Stop Session button to close an open Remote control session.

- **Disconnection hot key**

Indicates what is the hot key used to close an open KVM (Keyboard, Video, Mouse) Remote Control session (default is Shift+Esc).

Click on the Change button to choose a different hot key for terminating an open KVM Remote control session

- **Media Redirection**

Indicates whether there are any open IDE redirection sessions.
Possible values: Connected/ Disconnected/ Information unavailable

- **Terminal/Keyboard Redirection**

Indicates whether there are any open terminal/keyboard redirection sessions.
Possible values: Connected/ Disconnected/ Information unavailable.

4.2.3 System Defense State

- **System Defense State**

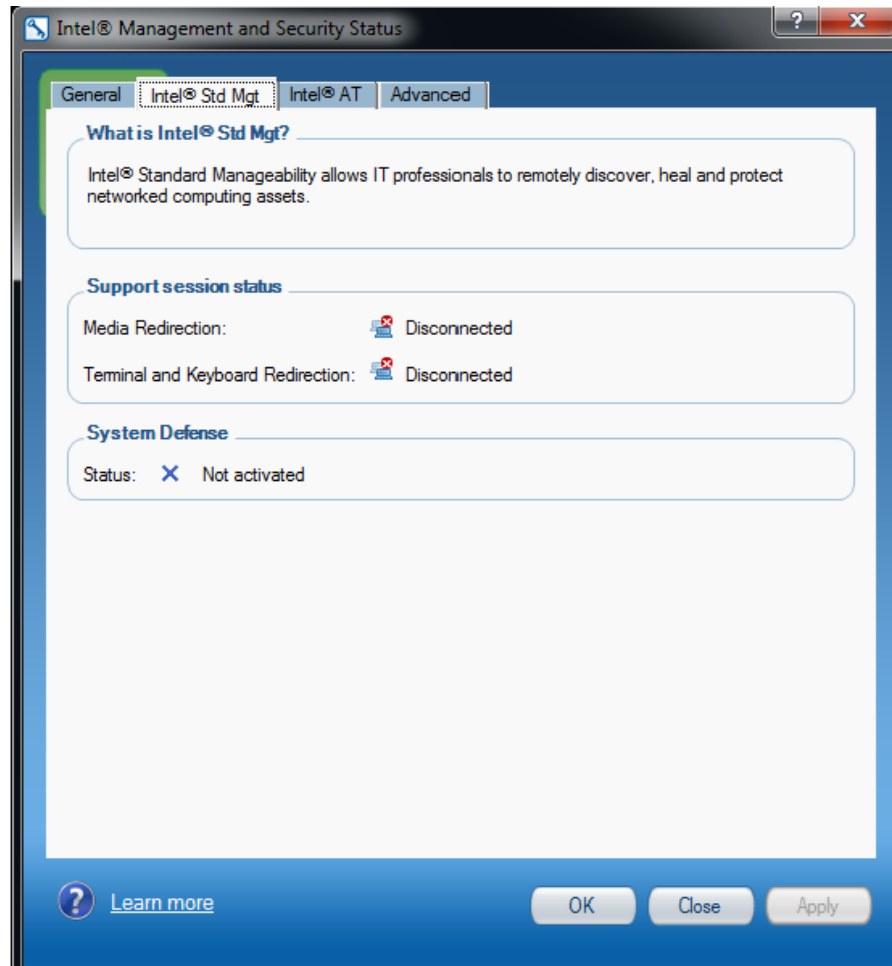
Indicates whether System Defense policies are currently active.
Possible values: Activated/Not activated/ Information unavailable.



4.3 Intel® Std Mgt Tab

Note: This tab is displayed only if the platform supports Intel® Standard Manageability.

Click the **Intel® Std Mgt** tab to display Intel® Standard Manageability information.



4.3.1 Support Session Status Section

The following information is provided:

- **Media Redirection**

Indicates whether there are any open IDE redirection sessions.
Possible values: Connected/ Disconnected/ Information unavailable

- **Terminal and Keyboard Redirection**

Indicates whether there are any open terminal/keyboard redirection sessions.
Possible values: Connected/ Disconnected/ Information unavailable.



4.3.2 System Defense State

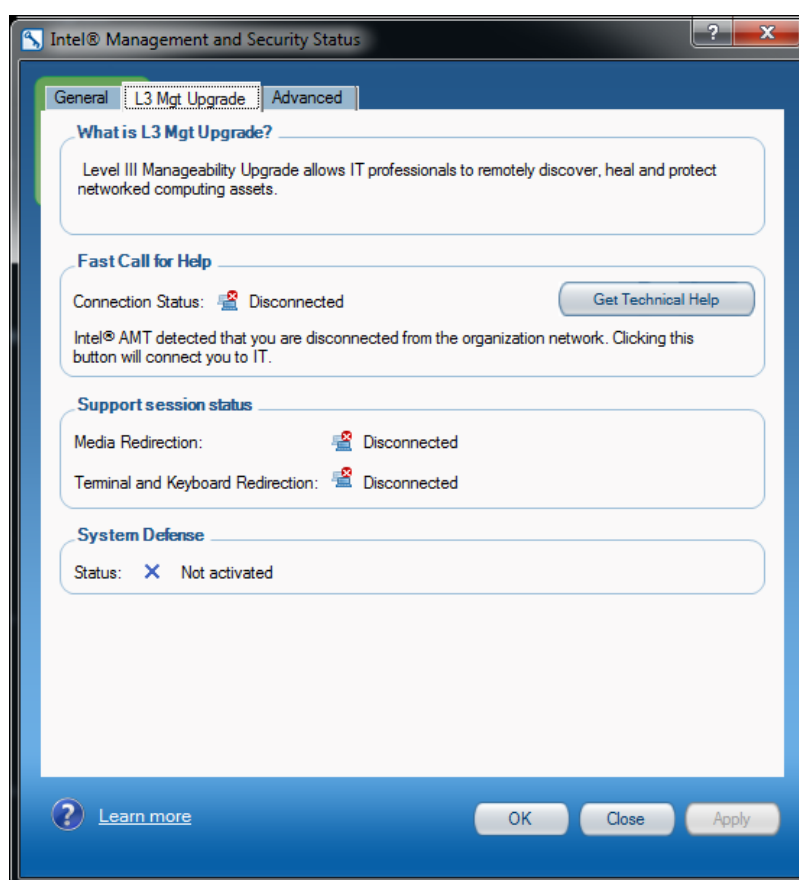
- **System Defense State**

Indicates whether System Defense policies are currently active.
Possible values: Activated/Not activated/ Information unavailable.

4.4 L3 Mgt Upgrade Tab

Note: This tab is displayed only if the platform supports Level III Manageability Upgrade.

Click the **L3 Mgt Upgrade** tab to display Level III Manageability Upgrade information.



4.4.1 Fast Call for Help

The Fast Call for Help section provides CILA (Client Initiated Local Access) or CIRA (Client Initiated Remote Access) capabilities depending on whether the system is connected to the corporate network or not, respectively.

CIRA allows a user to connect the Level III Manageability Upgrade system to the company's Information Technology network from an external internet connection.



Click the **Get Technical Help** button to connect to your Information Technology network for system diagnostics and maintenance. The current connection status is displayed in this section as well.

CILA (Client Initiated Local Access) feature allows a user connected to the internal corporate network to send a support request to the IT administrator.

Note: The information displayed in the Intel® Management and Security Status, including the Fast Call for Help section, is not shown in real time. The data is refreshed every time an event has arrived.

Note: When the user is connected as Guest account (in Windows*) the "Fast Call For Help" section will be grayed out. This was designed to prevent users outside of the organization to influence the organization network.

4.4.2 Support Session Status Section

The following information is provided:

- **Media Redirection**

Indicates whether there are any open IDE redirection sessions.
Possible values: Connected/ Disconnected/ Information unavailable

- **Terminal and Keyboard Redirection**

Indicates whether there are any open terminal/keyboard redirection sessions.
Possible values: Connected/ Disconnected/ Information unavailable.

4.4.3 System Defense State

- **System Defense State**

Indicates whether System Defense is currently active.
Possible values: Activated/Not activated/ Information unavailable.

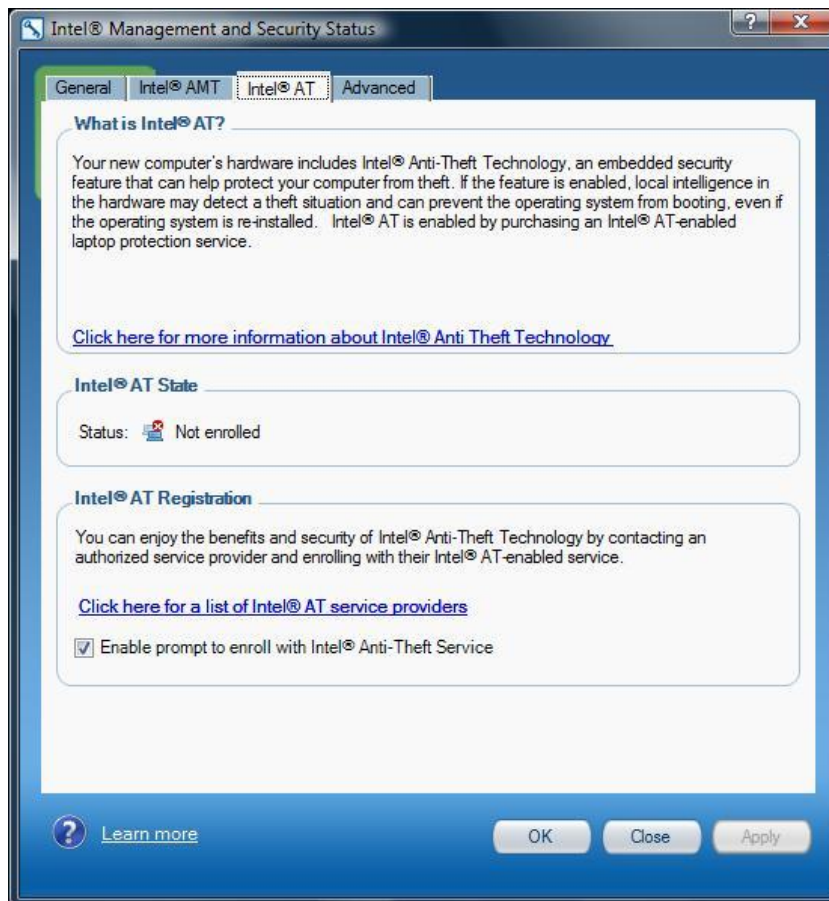


4.5 Intel® AT Tab

Note: This tab is displayed only if the platform supports Intel® AT.

Click the Intel® AT tab to view Intel® Anti-Theft information.

Note: The information in this tab shows the state of the platform when the Intel® Management and Security Status application was last launched.



Clicking the link in the **What is Intel® AT** section connects you to an Intel site that provides you with information about Intel® Anti-Theft technology.

4.5.1 Intel® AT State

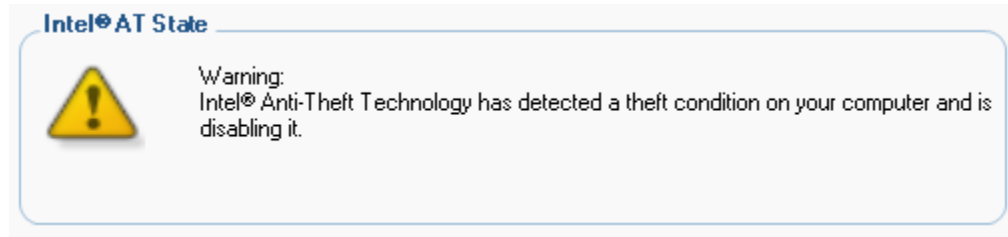
Provides the following information:

Enrolled: The platform has been enrolled with a service provider that is providing Intel® Anti-Theft protection for it.

Not Enrolled: The platform has not been enrolled with a service provider that is providing Intel® Anti-Theft protection.



Stolen: The Intel® Anti-Theft service provider has determined that the platform has been stolen, and has activated Intel® Anti-Theft to disable the platform. In this case, the following message is displayed:



4.5.2 Intel® AT Registration

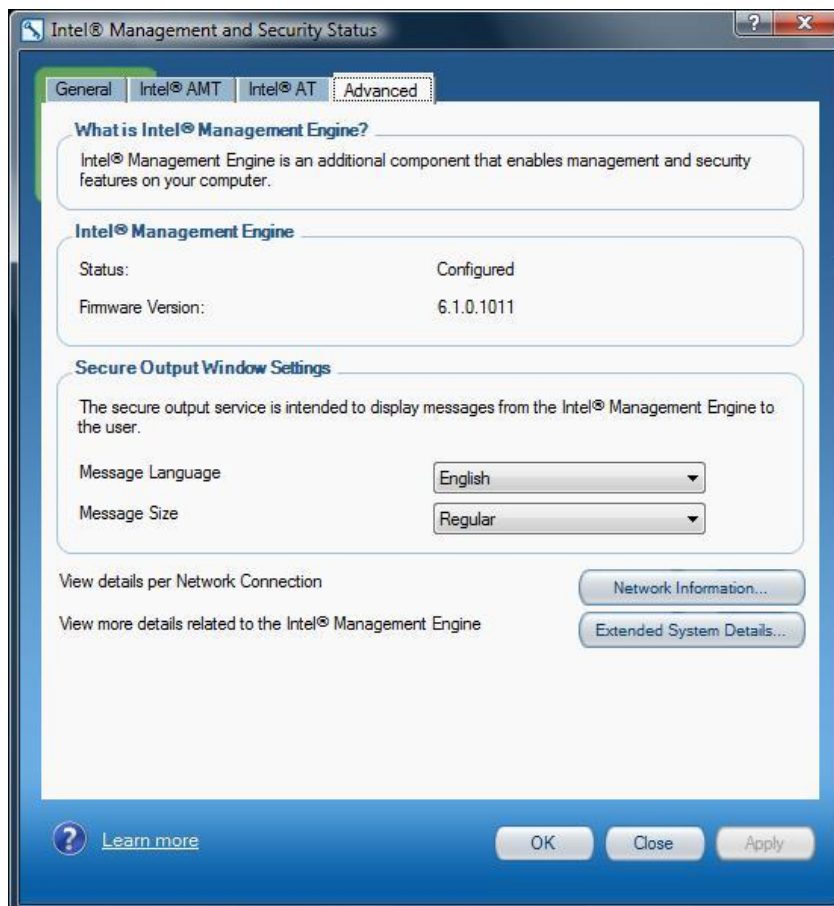
Note: This section is displayed only if the platform has not been enrolled with a service provider that is providing Intel® Anti-Theft protection.

Clicking the link in this section displays a list of Intel® AT service providers in your area and allows you to enroll with their Intel® AT service.

Enable prompt to enroll with Intel® Anti-Theft Service: If this box is checked, a balloon displaying an invitation to enroll with Intel® AT service is displayed every 5th time that the IMSS is started. If the platform has been enrolled with Intel® AT service, the balloon is not displayed.

4.6 Advanced Tab

Click the **Advanced** tab to view additional information.



4.6.1 Intel® Management Engine

The following information is provided:

- **State**

The operational status of Intel® ME
Possible values: Configured / Unconfigured / Information unavailable.

- **Firmware Version**

The Intel® ME firmware version.

4.6.2 Secure Output Window Settings

The following information is provided for the Secure Output feature, currently implemented in KVM (keyboard/video/mouse) redirection:



- **Message Language**

Specifies the language used by the Secure Output feature. Choose one of the listed languages.

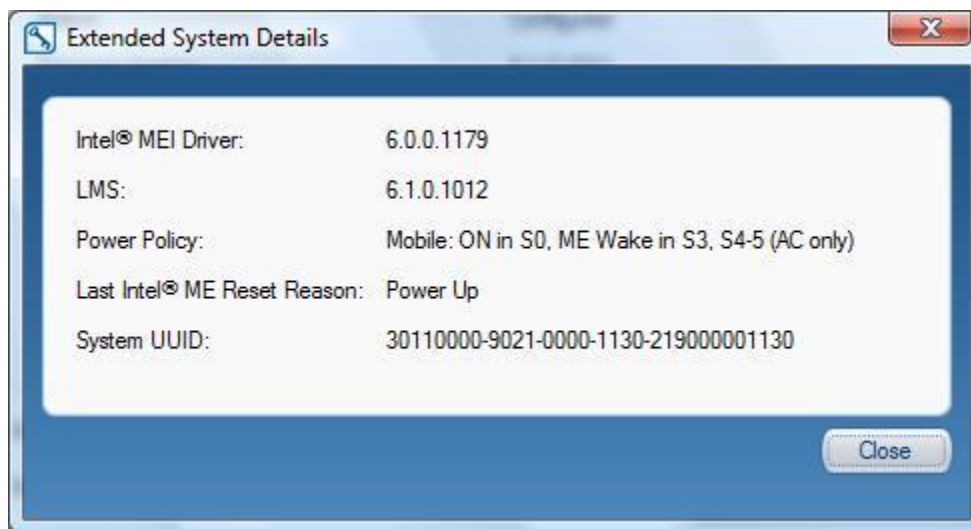
- **Message Size**

Specifies the window size of messages displayed by the Secure Output Feature. Choose one of the following: **Regular** or **Large**.

Note: If you are working in TLS mode but the local certificates are incorrect or missing, the KVM and Secure output information displayed by the IMSS is not up-to-date, and the secure output configuration cannot be changed.

4.6.3 Extended System Details

When you click Extended System Details, the following information is displayed:



- **Intel® MEI Driver**

The version of the Intel® Manageability Engine Interface driver.

- **LMS**

The version of the LMS service.

- **Power Policy**

The power modes in which the Manageability Engine is available. States are: ON in S0, or any other power policy supported by the system.

- **Last Intel® ME Reset Reason**

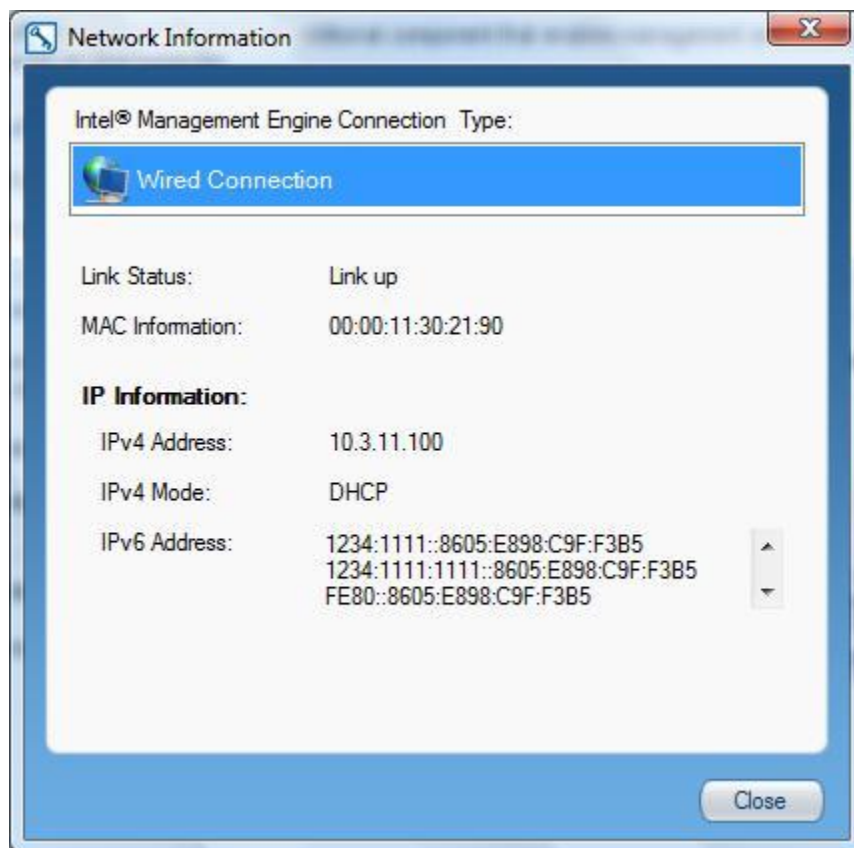
Displays the reason that the Intel® ME was last reset. Possible values: Global System / FW reset / Power Up / Unknown cause / Information unavailable

- **System UUID**

The current System Unique Universal Identification. Standard System UUID presentation, such as, 03000200-0400-0500-0006-000700080009.

4.6.4 Network Information

Click the **Network Information** button to display network details regarding Intel® ME wireless and wired connectivity.



In the **Connection Type** section, click either **Wireless Connection** or **Wired Connection** to display information on the following items for the selected interface:

- **Link Status**

Whether the link is currently active.
Possible values are: Link up/Link down/Information unavailable

- **MAC Information**

XX:XX:XX:XX:XX:XX – e.g. 88:88:88:0A:88:87

- **IPv4 Address**



- **IPv4 Mode**

Possible values: Static/DHCP/Information unavailable.

- **IPv6 address**

If IPv6 addressing is enabled for the ME, the IMSS displays up to 6 IPv6 IP addresses configured for an ME network interface.

- **Configured for Wireless**

(appears only for wireless connection)

Possible values are: Wireless enabled / Wireless disabled / Information unavailable.

4.7 Exiting the Application

To exit the application, right click on the Intel® Management and Security Status Application icon in the notification area and select **Exit**.

The following window is displayed.



Click **Yes** to automatically start the Intel® Management and Security Status application when you next log on.



5 *Advanced Configuration*

5.1 General tab logo

The logo displayed in the general tab can be substituted in order to match the visual identity of the computer supplier. For example, a particular manufacturer may prefer to display the company's logo.

To change the logo, add a bitmap file called **oemlogo.bmp** to the Intel® Management and Security Status folder (located at **Program Files\ Intel\ Intel ® Management Engine Components\IMSS**). The default logo will appear if the bitmap file is invalid or absent.

Note: The bitmap dimensions must be 62 (width) by 48 (height) or at the same proportions as 62 X 48. This is because the logo will be resized to match the logo size in the general tab.

5.2 Load on Start-Up options

By default, Intel® Management and Security Status loads on Windows startup. A user can uncheck the **Intel ® Management and Security Status will be available next time I log on to Windows** check box to prevent it from happening.

1. To disable application load on startup for all users, add a value named **AppAutoStartDefaultVal** with value **0** to the following registry location **HKLM\SOFTWARE\Intel\PIcon\Setting**.
2. To return to the default behavior, change the data of the same value to **1**, or delete the value.

Note: The application will still be available from the Start Menu, regardless of the value in this registry key.

Note: The user selection overrides system values in the registry key.

5.3 Load in disabled state

By default, Intel® Management and Security Status will not load in case all ME technologies are disabled or required component is not functioning (referred as 'disabled state' in the following sections).

To enable application load in 'disabled state' add a value named **AutoStartInDisabled** with value **1** to the following registry location **HKLM\SOFTWARE\Intel\PIcon\Setting**.



To return to the default behavior, change the data of the same value to **0**, or delete the value.

Note: The application will still be available from the Start Menu, regardless of the value in this registry key.

Note: The user selection overrides system values in the registry key. Meaning that in case the user will uncheck the **Intel® Management and Security Status will be available next time I log on to Windows** check box the application will not load in 'disabled state'.

5.4 Specifying the Delay Before the IMSS Loads

By default the IMSS starts loading 60 seconds after the user logs on. If you need the IMSS to load later because of other applications loading at log-on time, you can increase this period by changing the value of the **IMSS** registry key in the **HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Run** branch (this branch is correct for 32-bit operating systems; for 64-bit operating systems the location of the key in the registry is **HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Windows\CurrentVersion\Run**). The maximum allowed delay is 180 seconds.

For example, to cause a delay of 90 seconds before the IMSS loads, change the key's value to the following:

IMSS "C:\Program Files\Common Files\Intel\Privacy Icon\PIconStartup.exe" 90

Note: The lowest value you can enter here is 1; if you enter the value 0, the IMSS will load after the default period (60 seconds). To cause the IMSS to load without any delay, change the value of the **IMSS** key to

C:\Program Files\Common Files\Intel\Privacy Icon\PrivacyIconClient.exe" - startup

5.5 Show Notification Option

By default, Enable User Notification check box in the Intel® Management and Security Status – General tab is checked.

To change the default behavior - add a value named **ShowNotification** with value **0** to the following registry location **HKLM\SOFTWARE\Intel\PIcon\Setting**.

To return to the default behavior, change the data of the same value to **0**, or delete the value. The user selection overrides system values in the registry key.



5.6 Disabling the Intel® AT Tab

By default, the Intel® AT tab is displayed if the platform supports Intel® AT. To disable Intel® AT on the platform, assign the value **1** to the **DisableAT** registry key in the **HKLM\SOFTWARE\Intel\PIcon\Setting** registry directory. (If this key is missing from the registry, create one with type DWORD.) If this is done, the Intel® AT tab is not displayed, no new balloon notifications are displayed, and no new Intel® AT events are displayed in the General tab.

5.7 'Click here for more details' link

By default, clicking the '**Click here for more details**' inside the **Learn More** dialog will direct the user to the official Intel Corporation - Privacy website.

The link pointed to by the '**Click here for more details**' text inside the **Learn more** dialog can be modified to point to a page of the manufacturer's choice.

To perform this change, add a value named **HelpURL** with the URL of your choice (e.g. *http://www.intel.com/*) to the **HKLM\SOFTWARE\Intel\PIcon\Setting** key in the registry.

To return to the default behavior, simply delete the value.



6 ***Troubleshooting Intel[®] Management and Security Status***

6.1 **Error message appears upon application load**

.NET applications fail when executed in an environment that has no .NET framework installed. Microsoft does not provide a safeguard mechanism in such conditions.

The Intel[®] Management and Security Status will display the following error message if no .NET framework is present in the system.

Please install Microsoft* .NET Framework 3.5 and then re-open the application.



6.2 **Working with Mutual authentication on the local interface**

When an IT organization or the user has chosen to work with Mutual authentication on the local interface – they must set valid client certificate in the right directory for some commands to be sent to the FW, for example:

1. Stop Session (in the Support session status in the Intel[®] AMT tab).
2. Secure output window settings (in the Advanced tab).

All events from the FW will be presented normally without any dependence in the client certificate.



6.3 'Information Unavailable' is displayed instead of technology status

The Intel® Management and Security Status icon relies on the User Notification Service, which is installed together with the Intel® Management and Security Status, to obtain information concerning the status of the resident technologies. Please make sure that:

1. The User Notification Service is running and started automatically on Windows* startup. If it is not installed, please reinstall the drivers according to section 3.
2. The Local Manageability Service (LMS) is running and started automatically on Windows* startup. If it is not installed, please reinstall the drivers according to section 3.
3. The Intel® MEI driver is installed, enabled and functioning properly. Please review the Bring up Guide document for more information concerning this driver.

6.4 Client Initiated Remote Access Connection failure

Failure to connect to the Information Technology network can be caused by the following:

1. The User Notification Service is not running. It can be started through the Services pane in the Computer Management window. If it is not installed, please reinstall the drivers according to section 3.
2. The network cable is disconnected, or the network connection is not configured properly.

If the actions above don't resolve the problem, it is recommended to contact your Information Technology department.