INTEL-SA-00075 Detection Guide

Intel® Active Management Technology (Intel® AMT), Intel® Standard Manageability (ISM), and Intel® Small Business Technology (SBT)

Instructions for detecting INTEL-SA-00075

Revision 1.3 – May 9, 2017

Summary

This document will step you through multiple processes to detect INTEL-SA-00075. Read the Public Security Advisory at https://security-center.intel.com/advisory.aspx?intelid=INTEL-SA-00075&languageid=en-fr for more information.

If you are a user of a single PC and you wish to determine its status: We provide the INTEL-SA-00075 Discovery GUI application for local analysis of a single or standalone system.

If you are a network administrator wishing to determine the status of multiple machines: We have provided the INTEL-SA-00075 Discovery Tool console application. In this form it will perform discovery and write its findings to the local Windows Registry and (optional) XML file, for subsequent collection and analysis.

If you are a network administrator who is already using the Intel® Setup and Configuration Software (Intel® SCS):
The Intel® SCS suite contains an alternative console based discovery tool, Intel® SCS System Discovery utility. We suggest use of this tool if you are already familiar with Intel® SCS tools or would like to get detailed data about Intel® AMT.

Using the INTEL-SA-00075 Discovery Tool

What is the INTEL-SA-00075 Discovery Tool?

The INTEL-SA-00075 Discovery Tool can be used by local users or an IT administrator to determine whether a system is vulnerable to the exploit documented in Intel Security Advisory INTEL-SA-00075. It is offered in two versions. The first is an interactive GUI tool that, when run, discovers the hardware and software details of the device and provides indication of risk assessment. This version is recommended when local evaluation of the system is desired. The second version of the Discovery Tool is a console executable that saves the discovery information to the Windows* registry and/or to an XML file. This version is more convenient for IT administrators wishing to perform bulk discovery across multiple machines to find systems to target for firmware updates or to implement mitigations.

Obtaining the INTEL-SA-00075 Discovery Tool

The INTEL-SA-00075 Discovery Tool download package is available at: https://downloadcenter.intel.com/download/26755

System requirements

- Microsoft* .NET Runtime 4.0
- Microsoft Windows 7, 8, 8.1 or 10
- Local operating system administrative access

Installing the tool

Interactive installation:
Run discoveryToolInstaller.msi and follow the prompts on the screen

Silent installation
```
msiexec.exe /i discoveryToolInstaller.msi /qn
```

This will install the Discovery Tool in the default directory of:
```
C:\Program Files (x86)\Intel\Discovery Tool
```

Uninstalling the tool

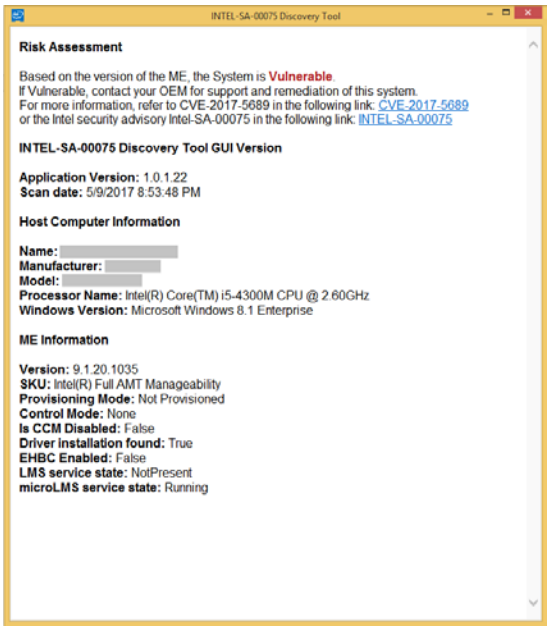
Interactive uninstallation
Run discoveryToolInstaller.msi and follow the prompts on the screen

Silent uninstallation
```
msiexec.exe /x discoveryToolInstaller.msi /qn
```

Running the GUI tool

INTEL-SA-00075-GUI.exe is designed to run on a single system. When run, the tool outputs the discovery information to the screen.

Figure 1 Example of INTEL-SA-00075-GUI output to screen



Meaning of the Risk Assessment in the GUI output

The following logic is used to determine a risk assessment in the output to the screen:

- Vulnerable: The system has a vulnerable manageability firmware version, firmware needs to be updated
- Not Vulnerable: The system meets the "Not Vulnerable" criteria described in the *Identifying vulnerable systems using the INTEL-SA-00075 Discovery Tool* section of the document.
- Not Vulnerable (verify configuration): The system has the firmware with the fix for INTEL-SA-00075, but if the system was provisioned prior to the firmware update, an attacker using the known vulnerability may have changed the manageability configuration. There is a limited amount of verification that can be done through reviewing the Intel manageability SKU audit log. A full unprovision, reprovision of the manageability SKU will remove unauthorized configuration settings.
- Check With OEM: The information in the SMBIOS from the OEM shows a manageability SKU, but the Discovery Tool did not receive a response when requesting detailed data from your computer. This may be caused by a missing Management Engine interface driver. Consult your OEM to find out if your computer model is affected.
- Unknown: Discovery Tool did not receive a valid response when requesting hardware inventory data from your computer. Consult your OEM to find out if your computer model is affected

Running the console tool

Execute `INTEL-SA-00075-console.exe` from a command prompt with administrative rights. Running the console tool without Command line arguments will output results to the console and write data to the registry.

Table 1 INTEL-SA-00075 Console Command Line Options

Command Line Option	Functionality
-n, --noregistry	Prevents writing results to the registry
-c, --noconsole	Prevents results from being displayed on the console
-d, --delay <number>	Delay in seconds before data collection starts. If no value is specified, the tool will use an 8 second delay.
-f, --writefile	Specifies writing results to a file. The filename uses the following format: <computername>_System_Summary.xml
-p, --filepath	The path to store the output file. If no path is specified, the file will be written to the directory that the tool is running from.
-h, --help	Displays these command line switches and their functions

Figure 2 Example of INTEL-SA-00075-Console output

```
INTEL-SA-00075 Discovery Tool
Application Version: <app version>
Computer Name: <computer name>
Scan date: <date and time>

*** Host Computer Information ***
Manufacturer: <computer manufacturer>
Model: <computer model>
Processor: <processor model>
Windows Version: <Windows* version>

*** ME Information ***
Version: <Intel ME firmware version>
SKU: <Manageability feature, if any present>
State: <ME provisioning state>
Driver installed: <True/False>
EHBC Enabled <True/False>
LMS state: <Running/Stopped/NotPresent>
```

```
MicroLMS state: <Running/Stopped/NotPresent>
Control Mode: <None/ACM/CCM>
Is CCM Disabled: <True/False/Unknown>


*** Risk Assessment ***
Based on the version of the ME, the System is <Vulnerable / Not Vulnerable / Not
Vulnerable (verify configuration)/ Unknown / Check with OEM>.

If Vulnerable, contact your OEM for support and remediation of this system.

*** For more information ***
Refer to CVE-2017-5689 at:
     https://nvd.nist.gov/vuln/detail/CVE-2017-5689

or the Intel security advisory Intel-SA-00075 at:
     https://security-center.intel.com/advisory.aspx?intelid=INTEL-SA-
00075&languageid=en-fr
```

Meaning of the Risk Assessment in the console output

- Vulnerable: The system has a vulnerable manageability firmware version, firmware needs to be updated.
- Not Vulnerable: The system meets the "Not Vulnerable" criteria described in the *Identifying vulnerable systems using the INTEL-SA-00075 Discovery Tool* section of the document.
- Not Vulnerable (verify configuration): The system has the firmware with the fix for INTEL-SA-00075, but if the system was provisioned prior to the firmware update, an attacker using the known vulnerability may have changed the manageability configuration. There is a limited amount of verification that can be done through reviewing the Intel manageability SKU audit log. A full unprovision, reprovision of the manageability SKU will remove unauthorized configuration settings.
- Check With OEM: The information in the SMBIOS from the OEM shows a manageability SKU, but the Discovery Tool did not receive a response when requesting detailed data from your computer. This may be caused by a missing Management Engine interface driver. Consult your OEM to find out if your computer model is affected.
- Unknown: Discovery Tool did not receive a valid response when requesting hardware inventory data from your computer. Consult your OEM to find out if your computer model is affected

Results

Note: The amount of data returned by the INTEL-SA-00075 Discovery Tool will depend on if the Intel manageability driver stack is loaded on to the system. If the Intel® Management Engine Interface (MEI) driver and Intel® Management and Security Application Local Management Service (LMS) are present, there will be a more verbose set of data available. Some of the fields may not be supported by the manufacturer.

Registry Location

The values from the results table can be found in the following registry key:
`HKLM\SOFTWARE\Intel\Setup and Configuration Software\INTEL-SA-00075 Discovery Tool`

XML

If you choose to write results to a XML file, that file will be stored in directory that INTEL-SA-00075-console.exe is executed from or the specified a path in the command line options.

Table 2 INTEL-SA-00075-Console output values

Value	Location	Description
Application Version		The version of the scanning tool used
Scan Date		The date time the scan took place
Computer Name		The name of the computer scanned
Computer Manufacturer	Hardware Inventory	The computer's manufacturer
Computer Model		The computer's model
Processor		The computer's processor model
ME Version	ME Firmware Information	A string value with the full ME firmware version number in the following format: Major.Minor.Hotfix.Build
ME SKU		If present, the manageability feature on the system
ME Provisioning State		The ME configuration state None Detected Not Provisioned Provisioning in Process Provisioned
ME Driver Installed		True/False value if the MEI driver is present on the computer
EHBC Enabled		True/False value if system is capable of Embedded Host Based Configuration provisioning method
LMS State		Information if the LMS Service is running, not running or not present
MicroLMS State		Information if the Micro LMS Service is running, not running or not present
Control Mode		The ME configuration mode None, ACM, or CCM
Is CCM Disabled		True/False/Unknown status for Client Control Mode being disabled
System Risk	System Status	The determined system risk Vulnerable: The system has a vulnerable manageability firmware version, firmware needs to be updated Not Vulnerable: The system meets the "Not Vulnerable" criteria described in the Identifying impacted systems using the INTEL-SA-00075 Discovery Tool section of the document. Not Vulnerable (verify configuration): The system has the firmware with the fix for INTEL-SA-00075, but if the system was provisioned prior to the firmware update, an attacker using the known vulnerability may have changed the manageability configuration. There is a limited amount of verification that can be done through reviewing the Intel manageability SKU audit log. A full unprovision, reprovision of the manageability SKU will remove unauthorized configuration settings. Check With OEM: The information in the SMBIOS from the OEM shows a manageability SKU, but the Discovery Tool did not receive a response when requesting detailed data from your computer. This may be caused by a missing Management Engine interface driver. Consult your OEM to find out if your computer model is affected. Unknown: Discovery Tool did not receive a valid response when requesting hardware inventory data from your computer. Consult your OEM to find out if your computer model is affected
System Exposure		The determined system exposure: Exposed: The system is provisioned or the LMS is running. Not Exposed: System is determined to be unprovisioned and the LMS is not running Potential Exposure: System is determined to be unprovisioned and the LMS status could not be determined Unknown: Discovery Tool did not receive a valid response when requesting hardware inventory data from your computer. The Discovery Tool cannot determine if a mitigation has been applied to this system.

Identifying impacted systems using the INTEL-SA-00075 Discovery Tool

Impacted systems are defined as having an affected Management Engine (ME) firmware version and containing one of three manageability feature sets as defined in the table below.

Table 3 Criteria to determine if a system is vulnerable to INTEL-SA-00075

Value Name	Vulnerable	Not Vulnerable
`ME SKU`	Intel® Full AMT Manageability Intel® Standard Manageability Intel® Small Business Advantage(SBA)	ME SKU values not present in the vulnerable list to the left -or- ME SKU values to the left with a firmware version that is not vulnerable
`ME Version`	ME Versions 6.x.x.x – 11.6.x.x with a build value less than 3000 Example: 9.5.22.**1760**	ME Versions: • 6.x.x.x – 11.6.x.x with a build value greater or equal to 3000 o Example: 11.6.27.**3264** • 2.x.x.x. – 5.x.x.x • 11.7.x.x or greater

Note: Intel® Small Business Technology (SBT) is the manageability SKU for Intel® Small Business Advantage (SBA)

Extending Microsoft* SCCM Hardware Inventory to include the INTEL-SA-00075 Discovery Tool results

If you choose to store the results from the discovery tool in the Windows Registry, you can leverage the Microsoft* SCCM hardware inventory extensibility to import the results. This will allow you to build up collections in SCCM to target computers for remediation or firmware updates. To do this, you will need to do the following:

1. Add hardware inventory classes to the SCCM configuration.mof file
2. Enable these new hardware inventory classes in your client configuration
3. Create a software package to deploy and run the INTEL-SA-00075 Discovery Tool
4. Create a task sequence to run the software package

MOF File modification

Note: If you have a central server in your environment, make the MOF file change on it. Otherwise, make these changes on every one of your primary servers.

1. Locate your configuration.mof file. It is typically found in \Progarm Files\Microsoft Configuration Manager\inboxex\clifiles.src\hinv\
2. Make a backup copy
3. Edit the configuration.mof file, scrolling down to the end of the file place the cursor above this line:

```
//=======================
// Added extensions end
//=======================
```

4. Paste the contents of the MOF file changes from Appendix A in this document above the line from step three.
5. Save and close the file.
6. Launch a command prompt running as administrator in the directory with configuration.mof
7. Run mofcomp without switches targeting the modified configuration.mof file.

Hardware Inventory Changes

Note: Once made, these changes will need time to propagate to your clients before these new items will appear in the hardware inventory. The amount of time this takes will vary depending on how your environment is configured.

1. Launch the Configuration Manager Console
2. Administration > Client Settings > Default Client Settings
3. Right-click Default Client Settings > Properties
4. Select Hardware Inventory > Set Classes
5. Click Add
6. Click Connect
7. Supply credentials if needed and click Connect
8. Search for Intel_SA
9. Check the 3 check boxes and click OK
10. OK > OK
11. SCCM records the changes to the Hardware Inventory in the dataldr.log

Create SCCM Package

1. Create the batch file from Appendix B and place it in a folder with the Intel-SA-00075 discovery tool files.
2. Launch the Configuration Manager Console
3. Software Library > Packages
4. Right-click Packages > Create Package
5. Name: Intel-SA-00075
6. Check This package contains source files
7. Browse to package folder from step one.
8. Next
9. Select Do not create a program
10. Next > Next > Close
11. Distribute package to appropriate Distribution Points

Create SCCM Task Sequence

1. Launch the Configuration Manager Console
2. Software Library > Operating Systems
3. Right-click Task Sequences > Create Task Sequence
4. Select Create a new custom task sequence
5. Next
6. Enter a name of Intel-SA-00075
7. Next > Next > Close
8. Right-Click the Intel-SA-00075 task sequence and click Edit
9. Add > General > Run Command Line
10. Enter Intel-SA-00075.bat in the Command Line field.
11. Check the Package box and select Browse
12. Select the previously created Intel-SA-00075 package > OK
13. Click OK

Using the Intel® SCS System Discovery Utility

What is the Intel® SCS System Discovery Utility?

The Intel® SCS System Discovery Utility is a component of the Intel® Setup and Configuration Software (Intel® SCS) suite that will provide you with specific details of the hardware and software on a system that support Intel® Active Management Technology (Intel® AMT), Intel® Standard Manageability (ISM), or Intel® Small Business Technology (Intel® SBT). When run, it can save the results to the Microsoft Windows registry and/or an XML file. This information can be used to find systems to target for firmware updates or to implement mitigations.

Obtaining the Intel® SCS System Discovery Utility

The Intel® SCS System Discovery Utility download package is available at: https://downloadcenter.intel.com/download/26691/Intel-SCS-System-Discovery-Utility

Determining the manageability firmware version using the Intel® SCS System Discovery Utility

The output of the Intel® SCS System Discovery Utility can be used to determine a system's firmware version and if the system is a manageability SKU. This information is provided in the `ManageabilityInfo` section of the output. For instructions on executing the tool, please read the Running the Intel® SCS System Discovery Utility section below.

The `FWVersion` value contains the version of firmware currently on the device. The AMTSSKU value contains the supported manageability SKU, if present. Review the values of `FWVersion` and AMTSKU to determine your system's vulnerability.

Value Name	Vulnerable	Not Vulnerable
AMTSKU	Intel(R) Full AMT Manageability Intel(R) Standard Manageability Intel(R) Small Business Advantage(SBA) Example Output: <ManageabilityInfo> <AMTSKU>**Intel(R) Full AMT Manageability**</AMTSKU> <AMTversion>**11.0.0**</AMTversion> <FWVersion>**11.0.0.1202**</FWVersion>	AMTSKU value not present in the output -or- AMTSKU values to the left with a firmware version that is not vulnerable Example Output: <ManageabilityInfo> <FWVersion>**9.0.13.1402**</FWVersion>
`FWVersion`	Intel® manageability SKU firmware versions 6.x.x.x – 11.6.x.x with a build value less than 3000 Example: 9.5.22.**1760**	Intel® manageability SKU firmware versions: • 6.x.x.x – 11.6.x.x with a build value greater or equal to 3000 o Example: 11.6.27.**3264** • 2.x.x.x. – 5.x.x.x • 11.7.x.x or greater

Note: Intel® Small Business Technology (SBT) is the manageability SKU for Intel® Small Business Advantage (SBA)

Running the Intel® SCS System Discovery Utility

Saving data to the registry only

Run the following command from a command prompt with administrative rights to run Intel® System SCS Discovery Utility and write data to the registry:

```
SCSDiscovery.exe SystemDiscovery /nofile
```

Saving data to a XML file only

Use the following command to run Intel® SCS System Discovery Utility and save the data to an XML file:

```
SCSDiscovery.exe SystemDiscovery <filename and path> /noregistry
```

The file name and path can be a local location on the system or a network share. If you choose to use a network share, make sure the account running Intel® SCS System Discovery Utility has write permissions to that network share. If you don't specify a file name and path, the system's FQDN will be used for the XML file name and the file will be stored in the directory that contains the Intel® SCS System Discovery Utility.

Saving data to the registry and a XML file

Use the following command to run the Intel® SCS System Discovery Utility to save data to the registry and a XML file

```
SCSDiscovery.exe SystemDiscovery <filename and path>
```

As in the previous example, if you don't specify a file name and path, the system's FQDN will be used for the XML file name and the file will be stored in the directory that contains the Intel(R) SCS System Discovery Utility.

Results of the Intel® SCS System Discovery Utility

The amount of data returned by the Intel® SCS System Discovery Utility will depend on if the Intel manageability driver stack is loaded on to the system. If the Intel® Management Engine Interface (MEI) driver and Intel® Management and Security Application Local Management Service (LMS) are present, there will be a more verbose set of data available. The results described below will focus on just a few key data fields relevant to the known privilege escalation issue. For additional details on the other data fields, see the Intel® SCS System Discovery Utility documentation. Some of the fields may not be supported by the manufacturer.

Registry results

Results saved to the registry can be found in the following location:
`HKLM\Software\Intel\Setup and Configuration Software\SystemDiscovery`

Key values:

Value Name	Registry Sub key	Value Description
FWVersion	ManageabilityInfo	Intel® Management Engine firmware version
AMTSKU	ManageabilityInfo	Supported manageability feature, if any present

XML file results

The Intel® Management Engine firmware version is found in the following path in the XML:

```
<SystemDiscovery>
       <ManageabilityInfo>
              <FWVersion> Version Number </FWVersion>
```

The system's supported manageability feature, if present, is found in the following path in the XML:

```
<SystemDiscovery>
       <ManageabilityInfo>
              <AMTSKU> Manageability Feature Name </AMTSKU>
```

Importing system discovery data into SCCM hardware inventory

The process of collecting system discovery data can be automated with the Intel® SCS Add-on for Microsoft* System Center Configuration Manager (SCCM). When installed, this add-on will automatically extend the SCCM hardware inventory to include system discovery data as well as create task sequences that can be used to run system discovery against collections of systems. The information collected through this process can then be used to create SCCM collections to push firmware updates or mitigations to impacted systems.

The Intel® SCS Add-on for Microsoft SCCM download package is available at:

https://downloadcenter.intel.com/download/26506/Intel-SCS-Add-on-for-Microsoft-System-Center-Configuration-Manager

Appendix A - MOF FILE Changes

```
//======= Intel-SA-00075 Start ====


#pragma namespace ("\\\\.\\root\\cimv2")
#pragma deleteclass("INTEL_SA_00075_DiscoveryTool", NOFAIL)
[DYNPROPS]
Class INTEL_SA_00075_DiscoveryTool
{
[key] string KeyName;
String ScanDate;
String ComputerName;
String ApplicationVersion;
};

[DYNPROPS]
Instance of INTEL_SA_00075_DiscoveryTool
{
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool|Scan Date"),Dynamic,Provider("RegPropProv")] ScanDate;
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool|Computer Name"),Dynamic,Provider("RegPropProv")]
ComputerName;
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool|Application Version"),Dynamic,Provider("RegPropProv")]
ApplicationVersion;
};

#pragma namespace ("\\\\.\\root\\cimv2")
#pragma deleteclass("INTEL_SA_00075_HardwareInventory", NOFAIL)
[DYNPROPS]
Class INTEL_SA_00075_HardwareInventory
{
[key] string KeyName;
String ComputerManufacturer;
String ComputerModel;
String Processor;
};

[DYNPROPS]
Instance of INTEL_SA_00075_HardwareInventory
{
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool\\Hardware Inventory|Computer
Manufacturer"),Dynamic,Provider("RegPropProv")] ComputerManufacturer;
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool\\Hardware Inventory|Computer
Model"),Dynamic,Provider("RegPropProv")] ComputerModel;
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool\\Hardware
Inventory|Processor"),Dynamic,Provider("RegPropProv")] Processor;
};

#pragma namespace ("\\\\.\\root\\cimv2")
#pragma deleteclass("INTEL_SA_00075_MEFirmwareInformation", NOFAIL)
[DYNPROPS]
Class INTEL_SA_00075_MEFirmwareInformation
{
[key] string KeyName;
```

```
String MEVersion;
Uint32 MEVersionMajor;
Uint32 MEVersionMinor;
Uint32 MEVersionBuild;
Uint32 MEVersionHotfix;
String MESKU;
String MEProvisioningState;
String MEDriverInstalled;
String LMSState;
String MicroLMSState;
String EHBCPEnabled;
String IsCCMDisabled
};

[DYNPROPS]
Instance of INTEL_SA_00075_MEFirmwareInformation
{
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool\\ME Firmware Information|ME
Version"),Dynamic,Provider("RegPropProv")] MEVersion;
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool\\ME Firmware Information|ME Version
Major"),Dynamic,Provider("RegPropProv")] MEVersionMajor;
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool\\ME Firmware Information|ME Version
Minor"),Dynamic,Provider("RegPropProv")] MEVersionMinor;
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool\\ME Firmware Information|ME Version
Build"),Dynamic,Provider("RegPropProv")] MEVersionBuild;
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool\\ME Firmware Information|ME Version
Hotfix"),Dynamic,Provider("RegPropProv")] MEVersionHotfix;
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool\\ME Firmware Information|ME
SKU"),Dynamic,Provider("RegPropProv")] MESKU;
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool\\ME Firmware Information|ME Provisioning
State"),Dynamic,Provider("RegPropProv")] MEProvisioningState;
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool\\ME Firmware Information|ME Driver
Installed"),Dynamic,Provider("RegPropProv")] MEDriverInstalled;
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool\\ME Firmware Information|LMS
State"),Dynamic,Provider("RegPropProv")] LMSState;
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool\\ME Firmware Information|Micro LMS
State"),Dynamic,Provider("RegPropProv")] MicroLMSState;
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool\\ME Firmware Information|EHBCP
Enabled"),Dynamic,Provider("RegPropProv")] EHBCPEnabled;
[PropertyContext("Local|HKEY_LOCAL_MACHINE\\SOFTWARE\\Intel\\Setup and Configuration
Software\\INTEL-SA-00075 Discovery Tool\\ME Firmware Information|Is CCM
Disabled"),Dynamic,Provider("RegPropProv")] IsCCMDisabled;
};

//======= Intel-SA-00075 End ====
```

Appendix B - INTEL-SA-00075.bat Batch File

```
@echo off
.\Intel-SA-00075-console
SET EL=%ERRORLEVEL%
rem Schedule HW inventory
SET HWInventoryGUID="{00000000-0000-0000-0000-000000000001}"
wmic /IMPLEVEL:Impersonate /AUTHLEVEL:Pktprivacy /namespace:\\root\ccm path sms_client CALL
TriggerSchedule %HWInventoryGUID% /NOINTERACTIVE
echo Exit code: %EL%
exit %EL%
```

Appendix C - Collection Query samples

Provisioned Computers

```
select * from SMS_R_System inner join SMS_G_System_INTEL_SA_00075_MEFIRMWAREINFORMATION on
SMS_G_System_INTEL_SA_00075_MEFIRMWAREINFORMATION.ResourceId = SMS_R_System.ResourceId where
SMS_G_System_INTEL_SA_00075_MEFIRMWAREINFORMATION.MEProvisioningState = "Provisioned"
```

LMS Running

```
select
SMS_R_SYSTEM.ResourceID,SMS_R_SYSTEM.ResourceType,SMS_R_SYSTEM.Name,SMS_R_SYSTEM.SMSUniqueIdentifie
r,SMS_R_SYSTEM.ResourceDomainORWorkgroup,SMS_R_SYSTEM.Client from SMS_R_System inner join
SMS_G_System_INTEL_SA_00075_MEFIRMWAREINFORMATION on
SMS_G_System_INTEL_SA_00075_MEFIRMWAREINFORMATION.ResourceID = SMS_R_System.ResourceId where
SMS_G_System_INTEL_SA_00075_MEFIRMWAREINFORMATION.LMSState = "Running" or
SMS_G_System_INTEL_SA_00075_MEFIRMWAREINFORMATION.MicroLMSState = "Running"
```