



# Intel® System Scope Tool

User Guide

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# 1. Introduction

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This User Guide provides system designers with information on how to use System Scope Rev 3.0.

The tool supports the following operating system(s):

1. Windows 10 64 bit

The tool supports the following microprocessors:

1. 6th Gen Intel® Core Processor Code name Kaby Lake Processor.
2. Intel® Core Processor Line Code name Canon Lake Processor.
3. Intel® Atom Processor Line Code name Gemini Lake Processor.
4. Intel® Atom Processor Line code name Ice Lake Processor.
5. Intel® Atom Processor Line code name Lake Field Processor
6. Intel® Atom Processor Line code name Coffee Lake Processor
7. Intel® Atom Processor Line code name Amber Lake Processor
8. Intel® Core Processor Line Code name Whiskey Lake Processor.
9. Intel® Core Processor Line Code name Comet Lake Processor.
10. Intel® Core Processor Line Code name Jasper Lake Processor.
11. Intel® Core Processor Line Code name EHL.
12. Intel® Core Processor Line Code name Tiger Lake Processor.

## 1.1 Revision History

Revision Number	Revision Data
1.0	December 2014
1.1	March 2015
1.2	October 2015
1.3	December 2015
1.4	January 2015
1.5	April 2016
1.6	June 2016
1.7	July 2016
1.8	September 2016
1.9	November 2016
2.0	February 2017

2.1	April 2017
2.2	February 2018
2.3	March 2018
2.4	July 2018
2.5	October 2018
2.6	December 2018
2.7	February 2019
2.8	June 2019
2.9	August 2019
3.0	October 2019
3.1	February 2020

## 1.2 Terminology

Term	Description
PCIE	Peripheral Component Interconnect Express
SMBIOS	System Management Basic I/O System
FPDT	Firmware Performance Data Table
PCH	Platform Controller Hub
ACPI	Advanced Configuration and Power Interface
OS	Operating System
BKC	Best Known Configuration
ME	Management Engine
MMIO	Memory - Mapped I/O
BMC	Baseboard Management Controller
TPM	Trusted Platform Module
SPS	Server Platform Services
TBT	Thunderbolt

## 2 .Installation

---

The Intel® System Scope Tool supports the following operating Systems.

1. Windows 10 64 bit

### 2.1 Installation on Windows

The tool supports the following browsers.

1. IE10
2. IE11
3. Firefox
4. Google Chrome
5. Microsoft Edge

#### **Installation Instructions:**

1. The Intel® System Scope Tool comes as an Installer package. Run the Intel(R) SystemScopeInstallerWinInternal.exe file as administrator and follow the onscreen instructions to install the application.
2. To launch the application, point to the shortcut created in the Strat menu or Desktop (Intel® System Scope Tool.htm) and run by clicking the shortcut.
3. After tool launches click on “Allow blocked content” button.
4. To uninstall/Stop the Service, close all the instances of the tools, by clicking on the close button of the browser.
5. To uninstall the tool, open Add/Remove programs from the Control Panel and click on Intel® System Scope Tool and hit Change/Remove button.

#### **To Re-install or Upgrade the tool:**

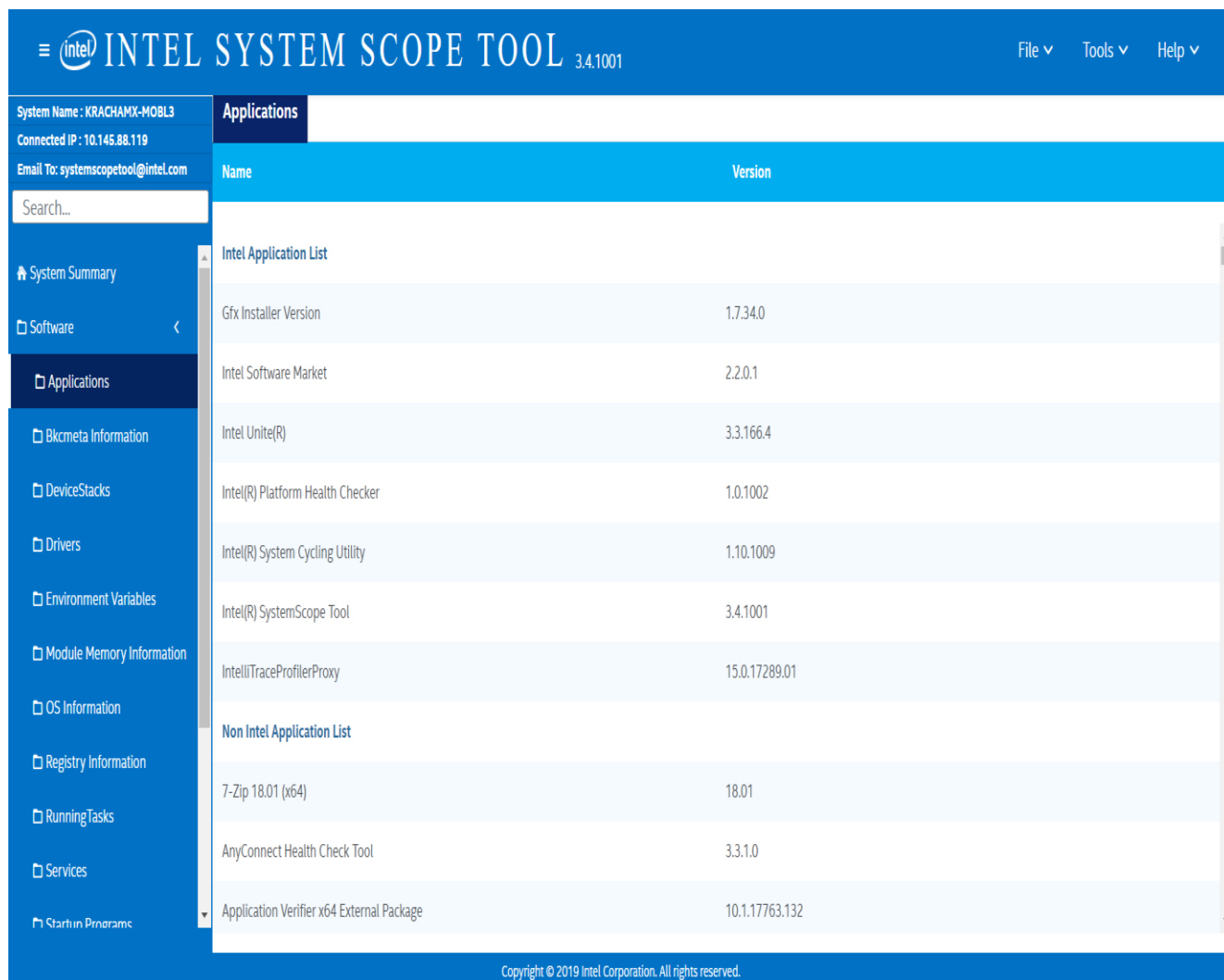
1. To uninstall the tool, open add/Remove programs from the Control Panel and click on Intel® System Scope Tool and hit Change/Remove button.
2. After uninstalling the existing tool, run Intel(R) SystemScopeInstallerWinInternal.exe and select install.
3. Another way to upgrade the tool is, get the new Installer package and run Intel(R) SystemScopeInstallerWinInternal.exe directly. This first uninstall the existing tool and install the new one.

## 3. Software

Click on "Software" tab to get the software details of the system.

This includes the Application List, OS Information, Device Stack List, Driver List, Service List, Module memory Information, Bkcmata information, registry information, Environment Variables, Running Tasks and Startup Programs

Figure 3.0 Software



The screenshot displays the Intel System Scope Tool interface. The top header bar is blue with the Intel logo, the text "INTEL SYSTEM SCOPE TOOL 3.4.1001", and navigation links for "File", "Tools", and "Help". On the left, a sidebar contains a search bar and a list of system categories: System Summary, Software (selected), Applications (highlighted), Bkcmata Information, DeviceStacks, Drivers, Environment Variables, Module Memory Information, OS Information, Registry Information, RunningTasks, Services, and Startup Programs. The main content area shows the "Applications" tab with a table of installed applications. The table has two columns: "Name" and "Version". It lists applications under "Intel Application List" and "Non Intel Application List".

Name	Version
<b>Intel Application List</b>	
Gfx Installer Version	1.7.34.0
Intel Software Market	2.2.0.1
Intel Unite(R)	3.3.166.4
Intel(R) Platform Health Checker	1.0.1002
Intel(R) System Cycling Utility	1.10.1009
Intel(R) SystemScope Tool	3.4.1001
IntelliTraceProfilerProxy	15.0.17289.01
<b>Non Intel Application List</b>	
7-Zip 18.01 (x64)	18.01
AnyConnect Health Check Tool	3.3.1.0
Application Verifier x64 External Package	10.1.17763.132

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## Software

### 3.1 Application List

Click on the “Application List” to get the list of applications installed on the system.

It displays the list in two categories, namely Intel and Non-Intel application.

Figure 3.1 Applications Information

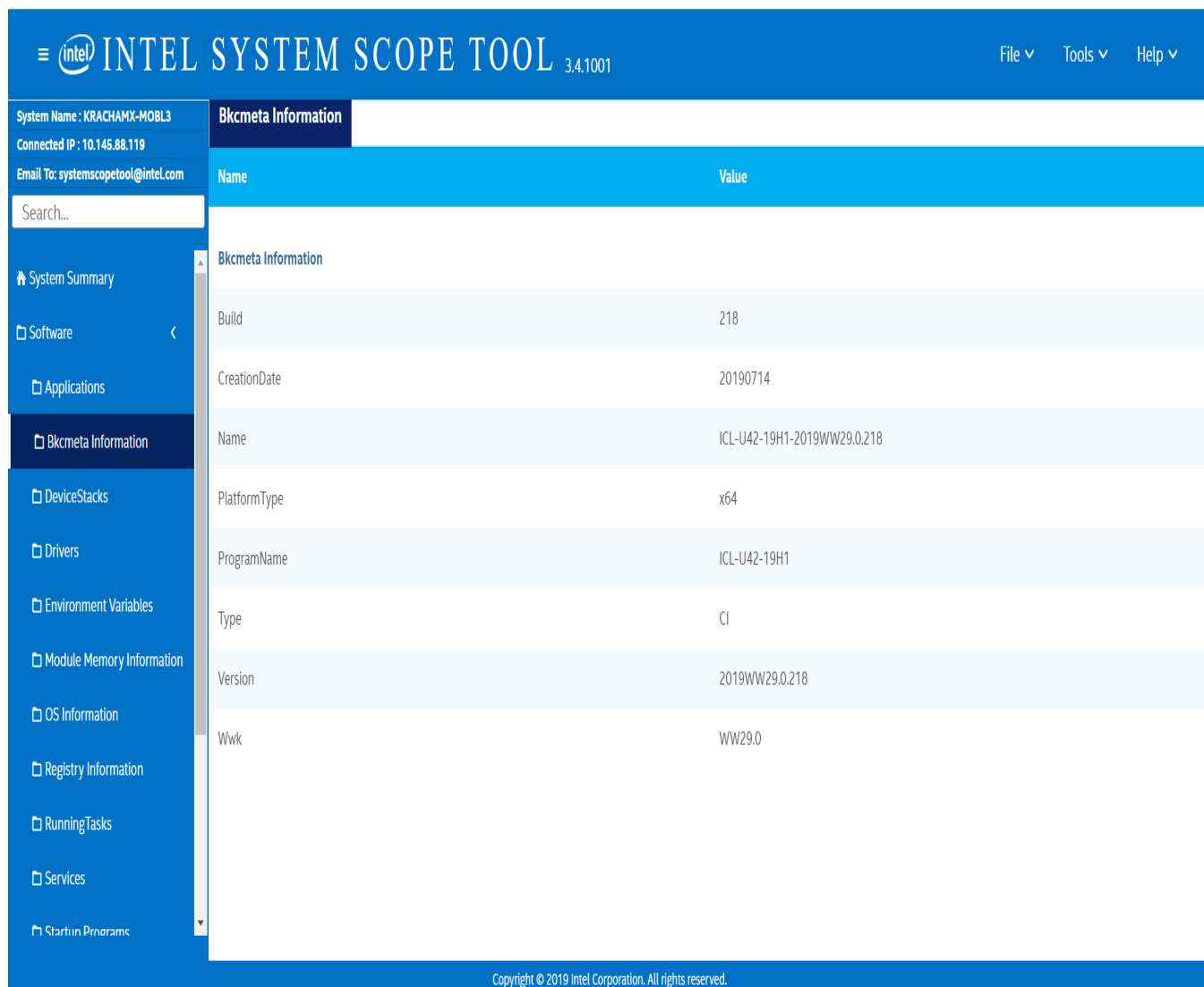
INTEL SYSTEM SCOPE TOOL 3.4.1001		File ▾	Tools ▾	Help ▾
System Name : KRACHAMX-MOBL3	Applications			
Connected IP : 10.145.88.119				
Email To: systemscopedtool@intel.com				
Search...				
System Summary				
Software				
Applications				
Bkcmeta Information				
DeviceStacks				
Drivers				
Environment Variables				
Module Memory Information				
OS Information				
Registry Information				
RunningTasks				
Services				
Startup Programs				
		Name		
		Version		
		Intel Application List		
		Gfx Installer Version		
		1.7.34.0		
		Intel Software Market		
		2.2.0.1		
		Intel Unite(R)		
		3.3.166.4		
		Intel(R) Platform Health Checker		
		1.0.1002		
		Intel(R) System Cycling Utility		
		1.10.1009		
		Intel(R) SystemScope Tool		
		3.4.1001		
		IntelliTraceProfilerProxy		
		15.0.17289.01		
		Non Intel Application List		
		7-Zip 18.01 (x64)		
		18.01		
		AnyConnect Health Check Tool		
		3.3.1.0		
		Application Verifier x64 External Package		
		10.1.17763.132		
		Copyright © 2019 Intel Corporation. All rights reserved.		

## Software

### 3.2 BKCMeta Information

This module displays BKC meta Information on system. It gives the complete information like Build, creation, date, name, platform type, program name, version, type and workweek.

Fig 3.2 Bkcmeta Information



The screenshot displays the Intel System Scope Tool interface. The top header bar is blue with the Intel logo and the text "INTEL SYSTEM SCOPE TOOL 3.4.1001". On the right side of the header, there are three dropdown menus: "File", "Tools", and "Help".

On the left side, there is a sidebar with a search bar and a list of modules. The "Bkcmeta Information" module is selected and highlighted in dark blue. Other modules in the list include System Summary, Software, Applications, DeviceStacks, Drivers, Environment Variables, Module Memory Information, OS Information, Registry Information, RunningTasks, Services, and Startup Programs.

The main content area shows the "Bkcmeta Information" module. It has a sub-header "Bkcmeta Information" and a table with two columns: "Name" and "Value". The table contains the following data:

Name	Value
Build	218
CreationDate	20190714
Name	ICL-U42-19H1-2019WW29.0.218
PlatformType	x64
ProgramName	ICL-U42-19H1
Type	CI
Version	2019WW29.0.218
Wwk	WW29.0

At the bottom of the interface, there is a footer bar with the text "Copyright © 2019 Intel Corporation. All rights reserved."

## Software

### 3.3 Device Stacks

This module displays Device Stacks Information on system. This tab will give the complete Information of devices stacks caption hardware ID, compatible ID, status, controlling service and Class GUID.

Figure 3.3 Device Stack Information

**INTEL SYSTEM SCOPE TOOL** 3.4.1001
 

File Tools Help

System Name : KRACHAMX-MOBL3  
 Connected IP : 10.145.88.119  
 Email To: systemscope@intel.com  
 Search...

System Summary  
 Software  
 Applications  
 Bkmeta Information  
**DeviceStacks**  
 Drivers  
 Environment Variables  
 Module Memory Information  
 OS Information  
 Registry Information  
 RunningTasks  
 Services  
 Startup Programs

DeviceStacks

Name	Hardware ID	Compatible ID	Controlling Service	Class GUID
Device Stack Details				
ACPI Fixed Feature Button	ACPI\FixedButton\FixedButton	Not Available	Not Available	{4D36E97D-E325-11CE-BFC1-08002BE10318}
ACPI Lid	ACPI\VEN_PNP&DEV_OC0EACPI\PNPOCOD*PNPOCOD	Not Available	Not Available	{4D36E97D-E325-11CE-BFC1-08002BE10318}
ACPI Sleep Button	ACPI\VEN_PNP&DEV_OC0EACPI\PNPOCOE*PNPOCOE	Not Available	Not Available	{4D36E97D-E325-11CE-BFC1-08002BE10318}
ACPI Thermal Zone	ACPI\ThermalZone*ThermalZone	Not Available	Not Available	{4D36E97D-E325-11CE-BFC1-08002BE10318}
ACPI x64-based PC	acpiapic	DETECTED\Internal\ACPI_HALDETECTED\ACPI_HAL	\Driver\ACPI_HAL	{4D36E966-E325-11CE-BFC1-08002BE10318}
Audio Endpoint	MMDEVAPI\AudioEndpoints	GenericAudioEndpointSWD\GenericRawSWD\Generic	Not Available	{C166523C-FE0C-4A94-A586-F1A80CFB8F3E}
Audio Endpoint	MMDEVAPI\AudioEndpoints	GenericAudioEndpointSWD\GenericRawSWD\Generic	Not Available	{C166523C-FE0C-4A94-A586-F1A80CFB8F3E}
Bluetooth Device (Personal Area Net	BTH\MS_BTHPAN		BthPan	{4D36E972-E325-11CE-BFC1-0800

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## Software

### 3.4 Drivers Information

Click on “Drivers” tab to get the Device, Hardware ID & Driver Version for the Devices. It will also display the digital signature status of the driver.

Fig 3.4 Driver Information

**INTEL SYSTEM SCOPE TOOL** 3.4.1001
 

File ▾
 Tools ▾
 Help ▾

System Name : KRACHAMX-MOBL3  
 Connected IP : 10.145.88.119  
 Email To: systemscope@intel.com  
 Search...

System Summary  
 Software  
 Applications  
 Bkmeta Information  
 DeviceStacks  
**Drivers**  
 Environment Variables  
 Module Memory Information  
 OS Information  
 Registry Information  
 RunningTasks  
 Services  
 Startup Programs

Drivers

Name	HardwareID	DriverVersion	Inf	Manufacturer
Driver Details				
ACPI Fixed Feature Button	ACPI\FixedButton\FixedButton	10.0.16299.309	machine.inf	(Standard system devices)
ACPI Lid	ACPI\VEN_PNP&DEV_OCOCACPI\PNPOCOD*PNPOCOD	10.0.16299.309	machine.inf	(Standard system devices)
ACPI Sleep Button	ACPI\VEN_PNP&DEV_OCOCACPI\PNPOCOE*PNPOCOE	10.0.16299.309	machine.inf	(Standard system devices)
ACPI Thermal Zone	ACPI\ThermalZone*ThermalZone	10.0.16299.309	machine.inf	(Standard system devices)
ACPI x64-based PC	acpiapic	10.0.16299.15	hal.inf	(Standard computers)
Bluetooth Device (Personal Area Network)	BTH\MS_BTHPAN	10.0.16299.402	bthpan.inf	Microsoft
Bluetooth Device (RFCOMM Protocol TDI)	BTH\MS_RFCOMM	10.0.16299.15	tdlibth.inf	Microsoft
Bluetooth		10.0.16299.15	Not Available	Microsoft
Charge Arbitration Driver	ROOT\CAD	10.0.16299.15	ChargeArbitration.inf	(Standard system devices)

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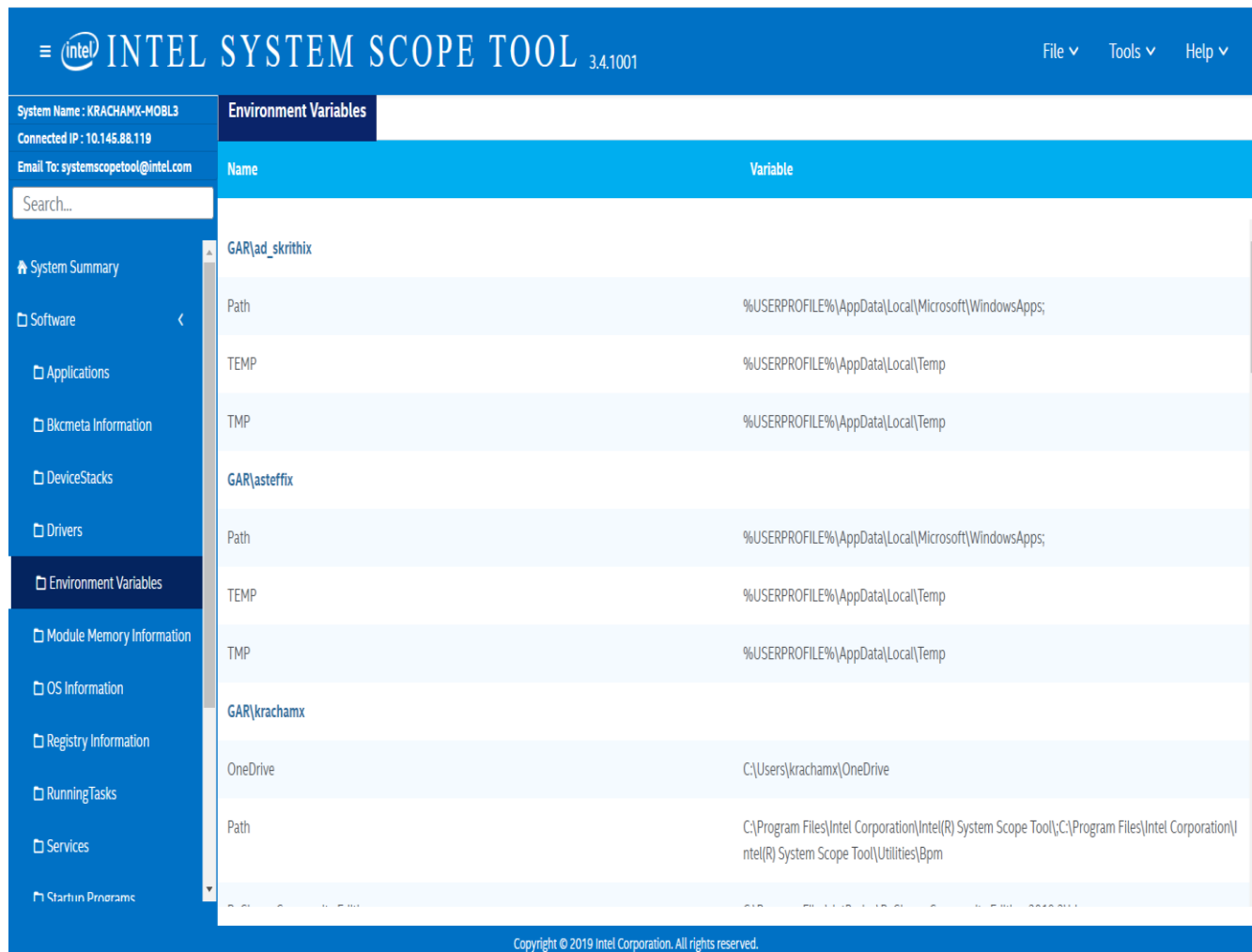


## Software

### 3.5 Environment Variables

This module displays all the Environment paths set in the system.

Fig 3.5 Environment Variables



The screenshot shows the Intel System Scope Tool interface. The top bar is blue with the Intel logo and the text "INTEL SYSTEM SCOPE TOOL 3.4.1001". On the right of the top bar are links for "File", "Tools", and "Help". The left sidebar is blue and contains a list of modules: "System Summary", "Software", "Applications", "Bkmeta Information", "DeviceStacks", "Drivers", "Environment Variables" (which is highlighted), "Module Memory Information", "OS Information", "Registry Information", "RunningTasks", "Services", and "Startup Programs". The main area is white and displays the "Environment Variables" module. It has a search bar at the top left. Below the search bar is a table with two columns: "Name" and "Variable". The table lists several environment variables for three different paths: GAR\ad\_skrithix, GAR\asteffix, and GAR\krachamx. Each path has three variables: Path, TEMP, and TMP. The values for these variables are all the same: %USERPROFILE%\AppData\Local\Microsoft\WindowsApps; %USERPROFILE%\AppData\Local\Temp. The bottom of the interface has a blue bar with the text "Copyright © 2019 Intel Corporation. All rights reserved."

Name	Variable
<b>GAR\ad_skrithix</b>	
Path	%USERPROFILE%\AppData\Local\Microsoft\WindowsApps;
TEMP	%USERPROFILE%\AppData\Local\Temp
TMP	%USERPROFILE%\AppData\Local\Temp
<b>GAR\asteffix</b>	
Path	%USERPROFILE%\AppData\Local\Microsoft\WindowsApps;
TEMP	%USERPROFILE%\AppData\Local\Temp
TMP	%USERPROFILE%\AppData\Local\Temp
<b>GAR\krachamx</b>	
OneDrive	C:\Users\krachamx\OneDrive
Path	C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\Utilities\Bpm

## Software

### 3.6 Module Memory Information

This module displays every module's memory information on system.

This tab will give all modules name based on start address and end address available on board.

Fig 3.6 Module Memory Information

**INTEL SYSTEM SCOPE TOOL 3.4.1001**

File ▾ Tools ▾ Help ▾

System Name : KRACHAMX-MOBL3  
 Connected IP : 10.145.88.119  
 Email To: systemscopedtool@intel.com

Search...

**Module Memory Information**

Module Name	Start Address	End Address
<b>Module Memory Details</b>		
7-zip.dll	0x5AF40000	0x5AF57000
aadcloudap.dll	0x7FFB722C0000	0x8009BFFF
AboveLockAppHost.dll	0x7FFB6DDE0000	0x80050FFF
AccessibleHandler.dll	0x7FFB55FE0000	0x8002DFFF
AccountAccessor.dll	0x7FFB38700000	0x80045FFF
ACPBackgroundManagerPolicy.dll	0x7FFB4ED50000	0x80032FFF
ACPIModule.dll	0x7FFB2CE20000	0x800DBFFF
acppage.dll	0x7FFB6D1E0000	0x80016FFF
Actioncenter.dll	0x7FFB40BC0000	0x8004FFFF
ActionMgr.dll	0x7FFB44420000	0x80017FFF
activationmanager.dll	0x7FFB50740000	0x80084FFF

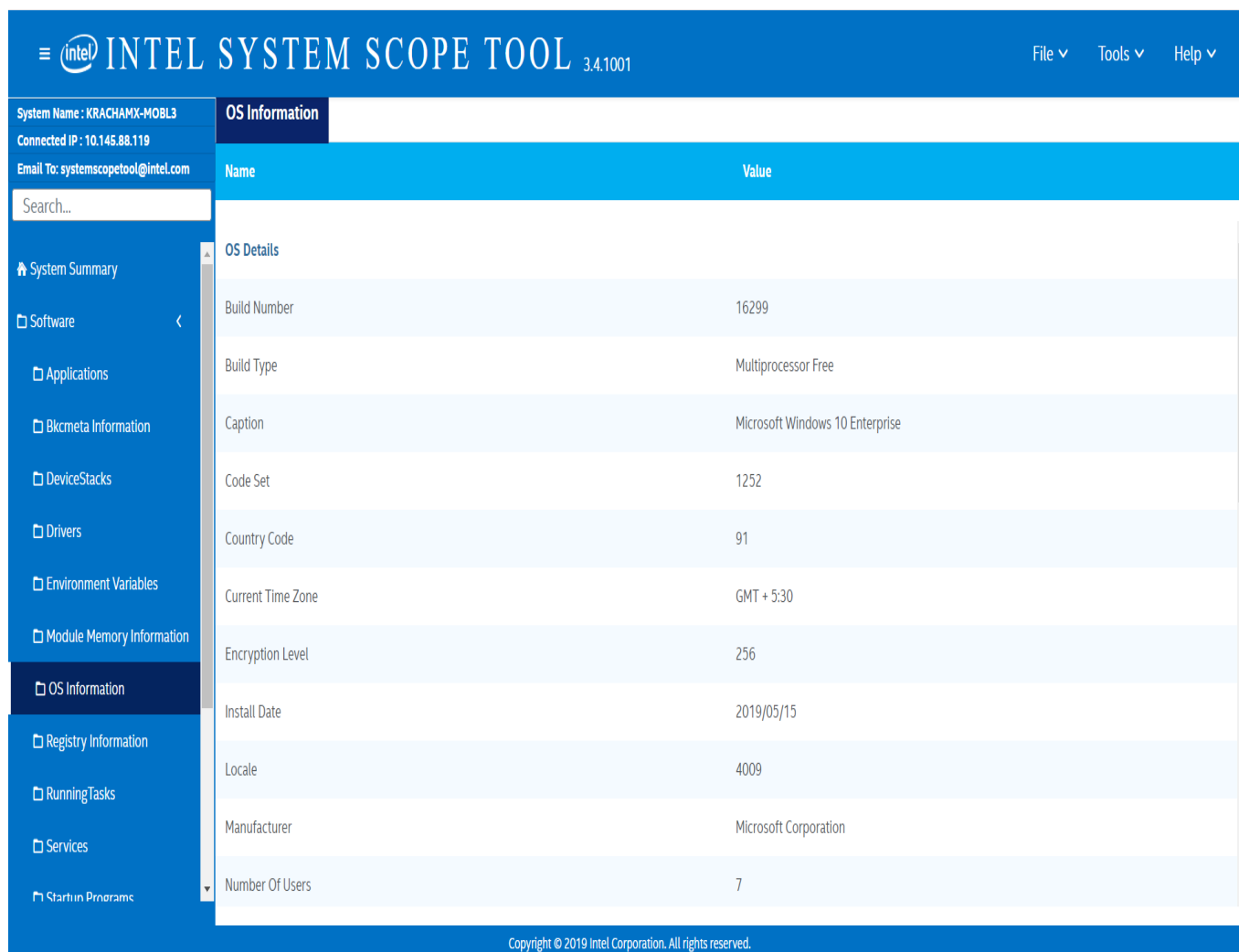
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## Software

### 3.7 OS Information

Click on “OS Information” tab, it displays the build number, build type, caption, code set install Date, OS architecture, language and system directory of operating system. It gives the complete Information of operating system.

Fig 3.7 OS Information



The screenshot shows the Intel System Scope Tool interface. The top bar displays the Intel logo, the text "INTEL SYSTEM SCOPE TOOL 3.4.1001", and menu items "File", "Tools", and "Help". On the left, a sidebar lists various system components: System Summary, Software, Applications, Bkcmeta Information, DeviceStacks, Drivers, Environment Variables, Module Memory Information, OS Information (selected), Registry Information, RunningTasks, Services, and Startup Programs. The main area is titled "OS Information" and contains a table with OS details.

Name	Value
<b>OS Details</b>	
Build Number	16299
Build Type	Multiprocessor Free
Caption	Microsoft Windows 10 Enterprise
Code Set	1252
Country Code	91
Current Time Zone	GMT + 5:30
Encryption Level	256
Install Date	2019/05/15
Locale	4009
Manufacturer	Microsoft Corporation
Number Of Users	7

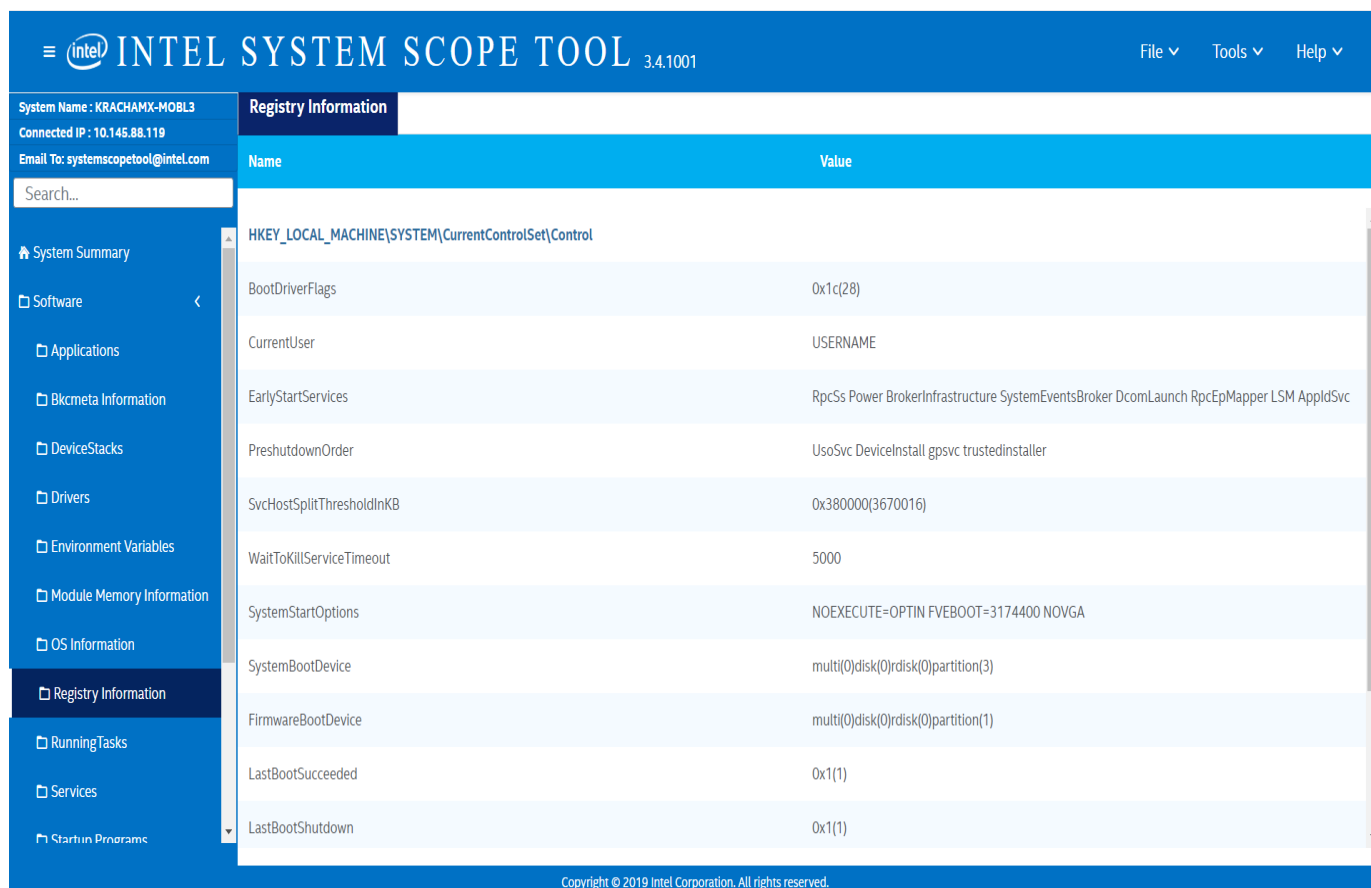
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## Software

### 3.8 Registry Information

This tab gives the complete registry information available on machine. It gives the name of Registry and data related to particular registry.

Fig 3.8 Registry Information



**INTEL SYSTEM SCOPE TOOL** 3.4.1001

System Name: KRACHAMX-MOBL3  
Connected IP: 10.145.88.119  
Email To: systemscopetool@intel.com

Search...

Registry Information

Name	Value
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control	
BootDriverFlags	0x1c(28)
CurrentUser	USERNAME
EarlyStartServices	RpcSs Power BrokerInfrastructure SystemEventsBroker DcomLaunch RpcEpmapper LSM AppIdSvc
PreshtutdownOrder	UsoSvc DeviceInstall gpvc trustedinstaller
SvcHostSplitThresholdInKB	0x380000(3670016)
WaitToKillServiceTimeout	5000
SystemStartOptions	NOEXECUTE=OPTIN FVEBOOT=3174400 NOVGA
SystemBootDevice	multi(0)disk(0)rdisk(0)partition(3)
FirmwareBootDevice	multi(0)disk(0)rdisk(0)partition(1)
LastBootSucceeded	0x1(1)
LastBootShutdown	0x1(1)

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## Software

### Steps to retrieve of Registry Information

RegistryKeys.xml is present in the location C:\ProgramData\SystemScopetool.

RegistryKeys.xml contains Registry key name. If user want to add more registry names,

Open Registry.xml document with any editor, add registry names and save the xml

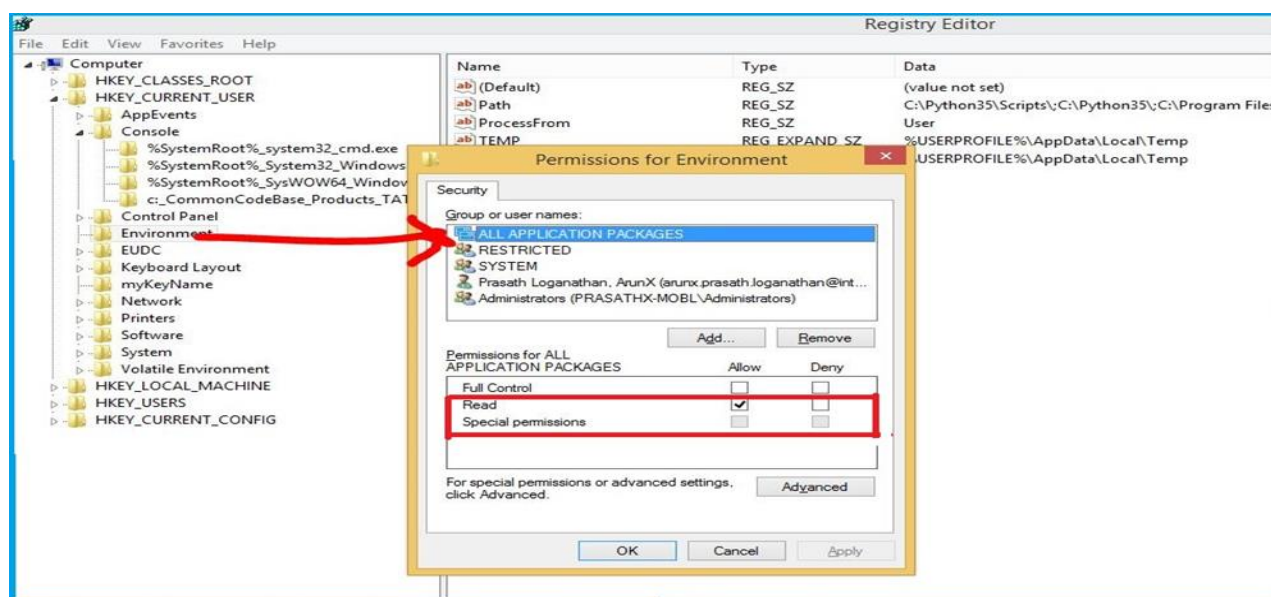
Document with any editor, add registry names and save the xml document. To see the

New changes refresh tool and navigate to Registry information.

```
<?xml version="1.0"?>
- <Tool Name="SystemScope">
  <RegistryKey Name="HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control"/>
  <RegistryKey Name="HKEY_LOCAL_MACHINE\SOFTWARE\Intel\Display\igfxcui\hkcmd"/>
</Tool>
```

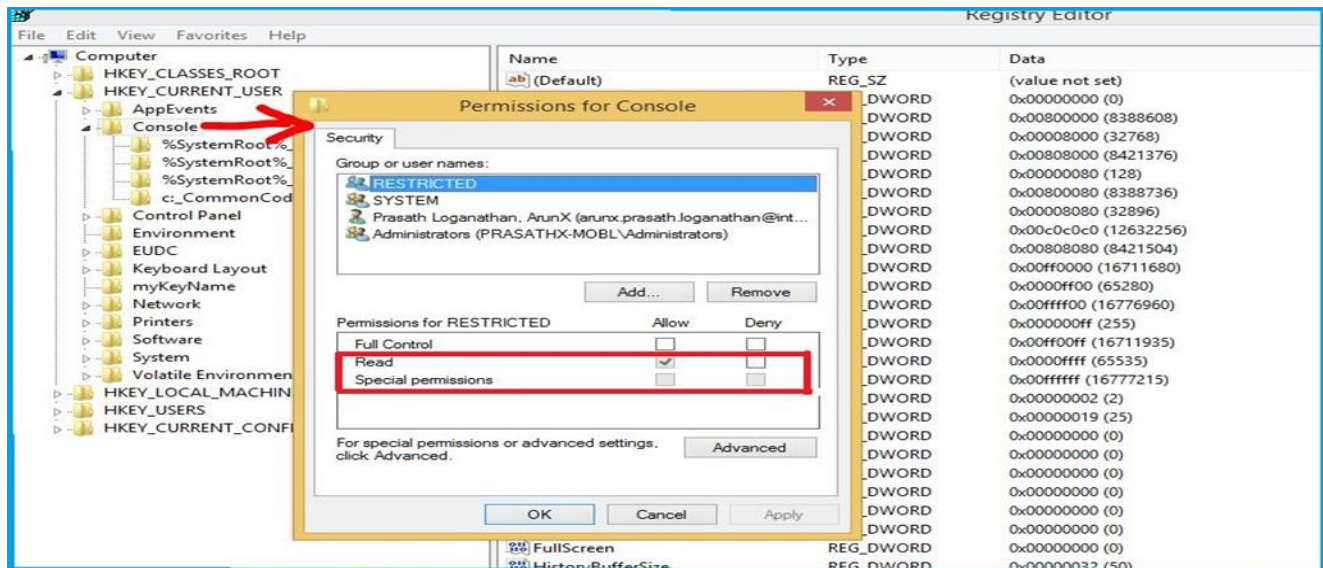
Few registry keys will not have permission to read. Check the permission level of key  
Before adding into the Registrykey.xml.

Fig 3.8.1 Registry permission Allowed



## Software

Fig 3.8.2 Registry permission Restricted



## 3.9 Running Tasks

This module gives all the current running processes in the system.

Fig 3.9 Running Tasks

INTEL SYSTEM SCOPE TOOL 3.4.1001						
<div> <div>System Name: KRACHAMX-MOBL3</div> <div>Connected IP: 10.145.88.119</div> <div>Email To: systemscope@intel.com</div> </div> <div> <div>Search...</div> <div> <div>System Summary</div> <div> <div>Software</div> <div> <div>Applications</div> <div>Bkcmeta Information</div> <div>DeviceStacks</div> <div>Drivers</div> <div>Environment Variables</div> <div>Module Memory Information</div> <div>OS Information</div> <div>Registry Information</div> <div>RunningTasks</div> <div>Services</div> <div>Startup Programs</div> </div> </div> </div> </div>						
Name	ExecutablePath	ProcessId	Priority	MinWorkingSet	MaxWorkingSet	VirtualSize
Running Tasks						
System Idle Process	Not Available	0	0	Not Available	Not Available	65536
System	Not Available	4	8	Not Available	Not Available	5480448
Secure System	Not Available	56	8	Not Available	Not Available	2142208
smss.exe	Not Available	472	11	Not Available	Not Available	2199063498752
csrss.exe	Not Available	752	13	Not Available	Not Available	2199127592960
wininit.exe	Not Available	868	13	Not Available	Not Available	2199112986624
csrss.exe	Not Available	876	13	Not Available	Not Available	2199212404736
services.exe	Not Available	944	9	Not Available	Not Available	2199116316672
Lsals.exe	Not Available	988	8	200	1380	2199081390080
winlogon.exe	C:\WINDOWS\system32\winlogon.exe	996	13	200	1380	2199132872704

## Software

### 3.10 Service Information

Click on “Services” to get the list of services installed on the system. It also displays the service type and the current status, description, trigger type and delayed auto start.

Fig 3.10 Services Information

INTEL SYSTEM SCOPE TOOL 3.4.1001								
File Tools Help								
System Name : KRACHAMX-MOBL3 Connected IP : 10.145.88.119 Email To: systemscope@intel.com								
Search...								
<ul style="list-style-type: none"> <li>Bkmeta Information</li> <li>DeviceStacks</li> <li>Drivers</li> <li>Environment Variables</li> <li>Module Memory Information</li> <li>OS Information</li> <li>Registry Information</li> <li>RunningTasks</li> <li><b>Services</b></li> <li>Startup Programs</li> <li>System</li> <li>PCIe</li> </ul>								
Display Name	Service Name	Description	Service Type	Status	Trigger Type	Type	Delayed Auto Start	
Intel Services List								
Intel Bluetooth Service	ibtsiva	Intel(R) Wireless Bluetooth(R) IBTSiva Service	Own process	Running	None	Auto Start	False	
Intel Processor Driver	intelppm		Kernal Driver	Running	None	Demand Start	False	
Intel RAID Controller Windows 7	iaStorV		Kernal Driver	Stopped	None	Demand Start	False	
Intel Serial IO GPIO Controller Driver	iagpio		Kernal Driver	Stopped	None	Demand Start	False	
Intel(R) Content Protection HDCP Service	cplspcon	Intel(R) Content Protection HDCP Service - enables communication with Content Protection HDCP HW	Own process	Running	None	Auto Start	False	
Intel(R) Content Protection HECI Service	cphs	Intel(R) Content Protection HECI Service - enables communication with the Content Protection HECI HW	Own process	Running	None	Demand Start	False	

### 3.11 Startup Programs

This Module gives all the programs which automatically starts when the system boots i.e., Startup Programs.

Fig 3.11 Startup Programs

INTEL SYSTEM SCOPE TOOL 3.4.1001				
File Tools Help				
System Name : KRACHAMX-MOBL3 Connected IP : 10.145.88.119 Email To: systemscope@intel.com				
Search...				
<ul style="list-style-type: none"> <li>Bkmeta Information</li> <li>DeviceStacks</li> <li>Drivers</li> <li>Environment Variables</li> <li>Module Memory Information</li> <li>OS Information</li> <li>Registry Information</li> <li>RunningTasks</li> <li>Services</li> <li><b>Startup Programs</b></li> <li>System</li> <li>PCIe</li> </ul>				
Name	Command	User	Location	
StartUp Programs				
OneDriveSetup	C:\Windows\SysWOW64\OneDriveSetup.exe /t hfirstsetup	NT AUTHORITY\LOCAL SERVICE	HKU\S-1-5-19\SOFTWARE\Microsoft\Windows\CurrentVersion\Run	
OneDriveSetup	C:\Windows\SysWOW64\OneDriveSetup.exe /t hfirstsetup	NT AUTHORITY\NETWORK SERVICE	HKU\S-1-5-20\SOFTWARE\Microsoft\Windows\CurrentVersion\Run	
CompareUtility	CompareUtility.lnk	GAR\krachamx	Startup	
Send to OneNote	Send to OneNote.lnk	GAR\krachamx	Startup	
OneDrive	C:\Users\krachamx\AppData\Local\Microsoft\OneDrive\OneDrive.exe /background	GAR\krachamx	HKU\S-1-5-21-1004336348-1383384898-1417001333-827744\SOFTWARE\Microsoft\Windows\CurrentVersion\Run	
Google Update	C:\Users\krachamx\AppData\Local\Google\Update\1.3.35.302\GoogleUpdateCore.exe	GAR\krachamx	HKU\S-1-5-21-1004336348-1383384898-1417001333-827744\SOFTWARE\Microsoft\Windows\CurrentVersion\Run	
Lync	C:\Program Files (x86)\Microsoft Office\Office15\lync.exe /fromrunkey	GAR\krachamx	HKU\S-1-5-21-1004336348-1383384898-1417001333-827744\SOFTWARE\Microsoft\Windows\CurrentVersion\Run	

## 4. System Information

Click on the “System” tab for viewing the system information.

Fig 4.0 System

The screenshot shows the Intel System Scope Tool interface. The top bar is blue with the Intel logo and the text "INTEL SYSTEM SCOPE TOOL 3.4.1001". On the right of the top bar are links for "File", "Tools", and "Help". Below the top bar is a navigation bar with various tabs: XSDT, FACP, TPCA, SSDT, SSDT1, TPM2, UEFI, SSDT2, SSDT3, ECDD, HPET, APIC, MCFG, SSDT4, DBG2, DBG2, BOOT, and BATB. The "XSDT" tab is currently selected. On the left side, there is a sidebar with a search bar and a list of system components: System, ACPI, Battery Information, BCD Store Entries, BIOS Options, Bluetooth, Components Information, DMA, FPD, Firmware Version, Generic System Information, Graphics Information, and ICC Information. The "System" component is selected. The main area of the tool displays the "Table Contents" for the XSDT table. The content includes a list of entries with their offsets and values, such as:
 

- /\*
- \* Intel ACPI Component Architecture
- \* AML/ASL+ Disassembler version 20160527-32
- \* Copyright (c) 2000 - 2016 Intel Corporation
- \*
- \* Disassembly of C:/Program Files/Intel Corporation/Intel(R) System Scope Tool/SupportedBinaries/XSDT.dat, Wed Oct 02 13:00:12 2019
- \*
- \* ACPI Data Table [XSDT]
- \*
- \* Format: [HexOffset DecimalOffset ByteLength] FieldName : FieldValue

 At the bottom of the interface, there is a copyright notice: "Copyright © 2019 Intel Corporation. All rights reserved."



## System

### 4.1 ACPI

Click on “ACPI” tab to view the ACPI details. This tab will give the complete information of Advanced configuration and power interface.

Fig 4.1 ACPI

The screenshot shows the Intel System Scope Tool interface. The top bar includes the Intel logo, the title "INTEL SYSTEM SCOPE TOOL 3.4.1001", and menu items "File", "Tools", and "Help". Below the top bar is a navigation bar with tabs for various system components: XSDT, FACP, TPCA, SSDT, SSDT1, TPM2, UEFI, SSDT2, SSDT3, ECDT, HPET, APIC, MCFG, SSDT4, DBGP, DBG2, BOOT, and BATB. The left sidebar contains a search bar and a list of system components, with "ACPI" currently selected. The main content area displays the "Table Contents" for the XSDT table, showing a list of entries with their respective comments and values.

System Name	Connected IP	Email To	XSDT	FACP	TPCA	SSDT	SSDT1	TPM2	UEFI	SSDT2	SSDT3	ECDT	HPET	APIC	MCFG	SSDT4	DBGP	DBG2	BOOT	BATB
KRACHAMX-MOBL3	10.145.88.119	systemscoptool@intel.com	SLIC	SSDT5	SSDT6	SSDT7	MSDM	DMAR	ASF!	FPDT	BGRT	UEFI1	DSDT	FACS						

Search...

System

ACPI

Battery Information

BCD Store Entries

BIOS Options

Bluetooth

Components Information

DMA

FPDT

Firmware Version

Generic System Information

Graphics Information

ICC Information

Table Contents

XSDT

/\*

\* Intel ACPI Component Architecture

\* AML/ASL+ Disassembler version 20160527-32

\* Copyright (c) 2000 - 2016 Intel Corporation

\*

\* Disassembly of C:/Program Files/Intel Corporation/Intel(R) System Scope Tool/SupportedBinaries/XSDT.dat, Wed Oct 02 13:00:12 2019

\*

\* ACPI Data Table [XSDT]

\*

\* Format: [HexOffset DecimalOffset ByteLength] FieldName : FieldValue

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## System

### 4.2 Battery Information

Display the complete information of the battery connected to the computer system.

Fig 4.2 Battery Information

The screenshot displays the Intel System Scope Tool interface. The top header bar is blue with the Intel logo and the text 'INTEL SYSTEM SCOPE TOOL 3.4.1001'. On the right side of the header are three dropdown menus: 'File', 'Tools', and 'Help'. On the left side, there is a sidebar with a search bar and a list of system components. The 'Battery Information' component is selected and highlighted in dark blue. The main area of the tool shows a table of battery-related information.

Name	Value
<b>Battery Power Capabilities</b>	
Battery Life	the device is connected to AC power.
Battery Saver	Battery saver is off.
Battery Status	Fully Charged
Battery PowerSource	System Running on AC
Battery Life Percent	100
<b>Microsoft AC Adapter</b>	
Caption	Microsoft AC Adapter
Instance ID	ACPI\ACPI0003\0
Hardware ID	ACPI\VEN_ACPI&DEV_0003ACPI\ACPI0003*ACPI0003
Manufacturer	Microsoft
Class GUID	{72631E54-78A4-11D0-BCF7-00AA00B7B32A}

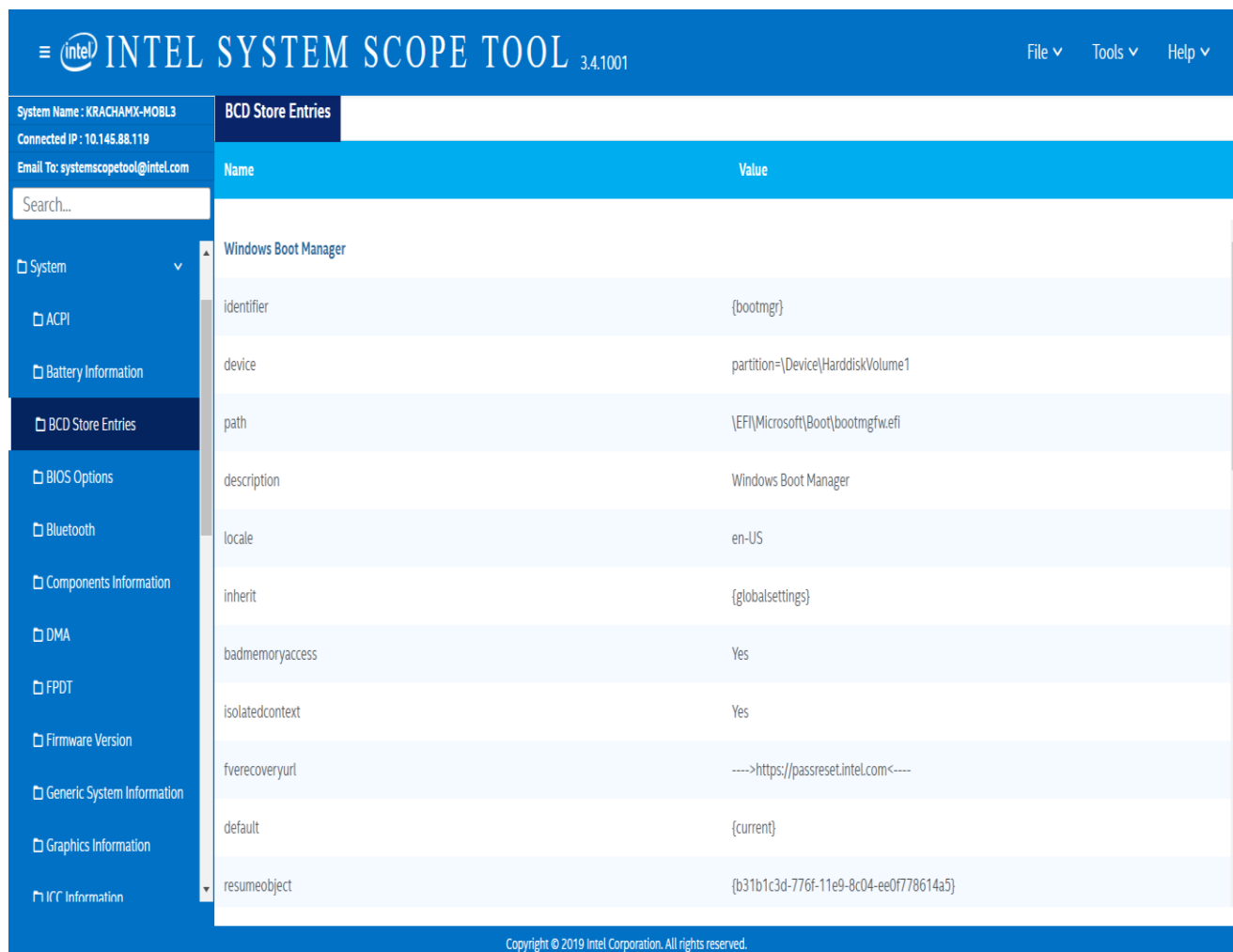
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## System

### 4.3 BCD Store Entries

Display the complete information of the BCD Store Entries. It retrieves the key and value of Window boot manager and window boot loader.

Fig 4.3 BCD Store Entries



The screenshot shows the Intel System Scope Tool interface. The top bar is blue with the Intel logo and the text "INTEL SYSTEM SCOPE TOOL 3.4.1001". On the right, there are menu items: "File", "Tools", and "Help".

On the left, there is a sidebar with a search bar and a list of system components. The "System" component is expanded, showing a list of sub-components. The "BCD Store Entries" component is selected and highlighted in dark blue.

The main area displays the "BCD Store Entries" table. The table has two columns: "Name" and "Value". The table contains the following entries:

Name	Value
Windows Boot Manager	
identifier	{bootmgr}
device	partition=\Device\HarddiskVolume1
path	\EFI\Microsoft\Boot\bootmgfw.efi
description	Windows Boot Manager
locale	en-US
inherit	{globalsettings}
badmemoryaccess	Yes
isolatedcontext	Yes
fvrecoveryurl	---->https://passreset.intel.com<----
default	{current}
resumeobject	{b31b1c3d-776f-11e9-8c04-ee0f778614a5}

At the bottom of the interface, there is a copyright notice: "Copyright © 2019 Intel Corporation. All rights reserved."

## System

### 4.4 Components Information

This tab display the Complete Component information available on board. It displays the Information about the camera device, input device, multimedia, ports, sound device and USB Device available on machine.

Fig 4.4 Components Information

**INTEL SYSTEM SCOPE TOOL** 3.4.1001
 

File ▾
 Tools ▾
 Help ▾

**System Name : KRACHAMX-MOBL3**  
**Connected IP : 10.145.88.119**  
**Email To: systemscope@intel.com**

- System Information
- BCD Store Entries
- BIOS Options
- Bluetooth
- Components Information ▾**
  - Camera Device**
  - Input Device
  - Audio Video Codecs
  - Ports
  - Sound Device
  - USB Device
  - DMA
  - FPDT

**Camera Information**

Name	Value
<b>Camera Information</b>	
<b>Camera Information 0</b>	
Availability	Not Available
Caption	Integrated Camera
Class Guid	{6bdd1fc6-810f-11d0-bec7-08002be2092f}
Compatible ID	Not Available
Config Manager Error Code	Device is working properly
Config Manager User Config	FALSE
Creation Class Name	Win32_PnPEntity
Description	Integrated Camera
Device ID	USB\VID_5986&PID_0708&MI_00\6&2D82A1BA&0&0000
Error Cleared	Not Available

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## System

### 4.5 FPDT

Click on “FPDT” tab, it displays the FPDT information, FPDT log, GUID and GUID without string.

Fig 4.5 FPDT

The screenshot shows the Intel System Scope Tool interface. The top bar displays the Intel logo, the tool name "INTEL SYSTEM SCOPE TOOL 3.4.1001", and menu options "File", "Tools", and "Help". The left sidebar contains a list of system components, with "FPDT" selected. The main area shows the "FPDT Information" tab, which displays a table of FPDT data.

Name	Value
<b>Firmware Performance Data Table</b>	
Signature	FPDT
Length	68(0x44)
Revision	1
Checksum	0xfb
OEMID	LENOVOTPR07**
OEMTableID	TPR07**
OEMRevision	0x2260
Creator ID	0x43455450
Creator Revision	0x2
<b>(0): FBPT_PTR</b>	
Length	16

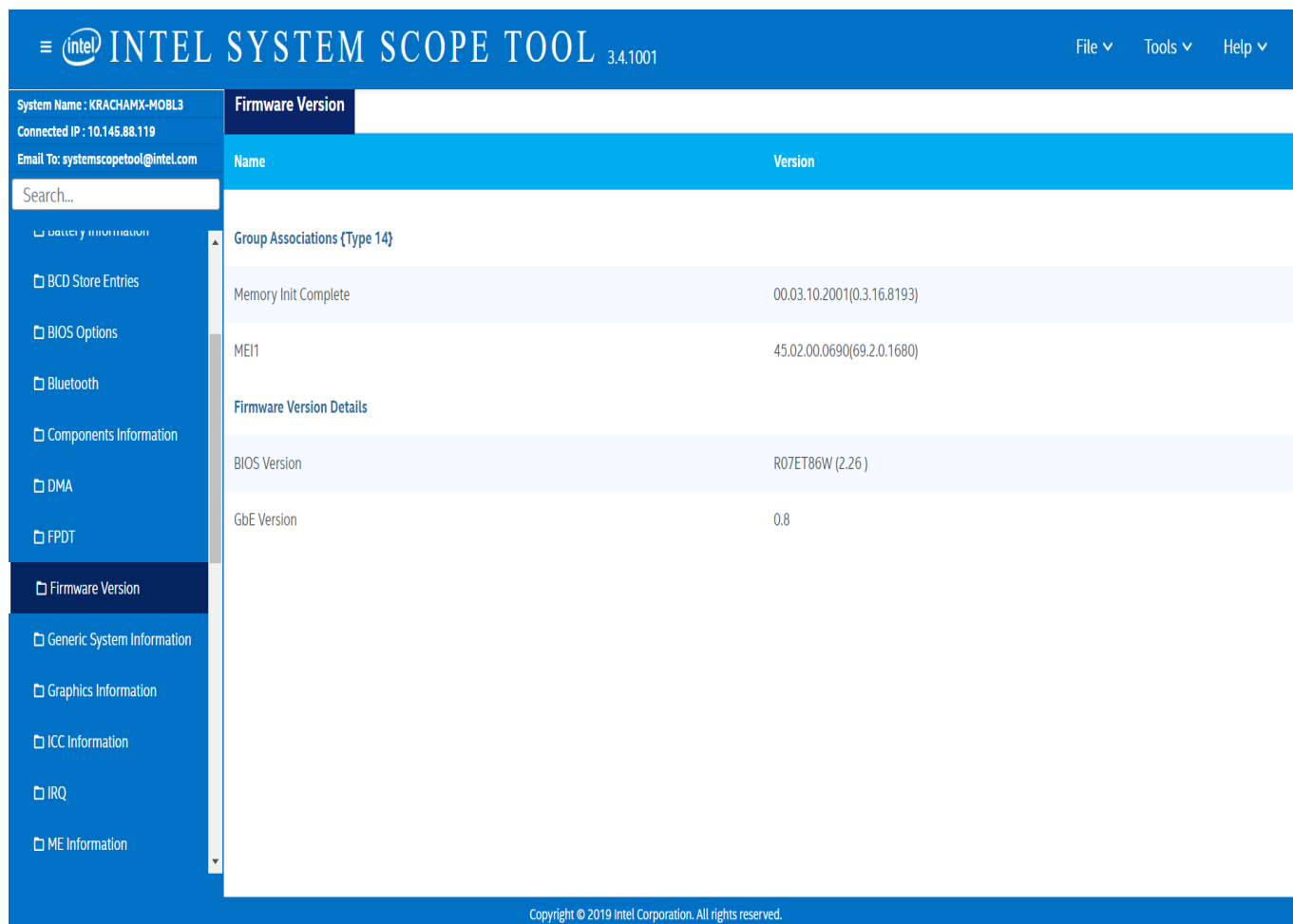
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## System

### 4.6 Firmware Version

Displays the Firmware versions for the device. It displays the version and component name of Group associates with different types.

Fig 4.6 Firmware Version Info



The screenshot shows the Intel System Scope Tool interface. The top bar is blue with the Intel logo and the text "INTEL SYSTEM SCOPE TOOL 3.4.1001". On the right, there are links for "File", "Tools", and "Help". The left sidebar is blue and contains a list of system components, with "Firmware Version" selected. The main area is white and displays the "Firmware Version" section. It includes a search bar and a table of group associations.

Name	Version
<b>Group Associations (Type 14)</b>	
Memory Init Complete	00.03.10.2001(0.3.16.8193)
MEI1	45.02.00.0690(69.2.0.1680)
<b>Firmware Version Details</b>	
BIOS Version	R07ET86W (2.26)
GbE Version	0.8

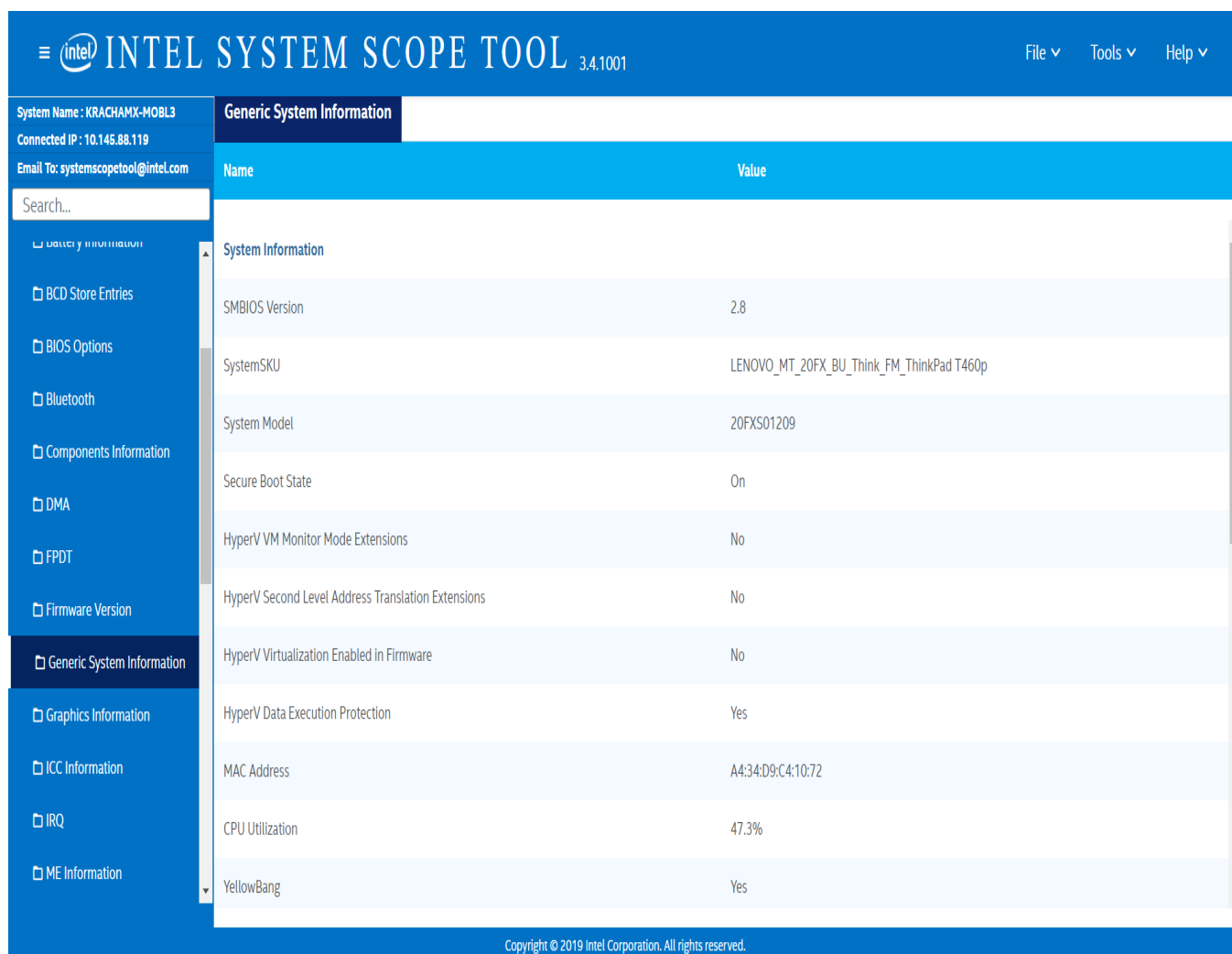
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## System

### 4.7 Generic System Information

Displays complete information of the System summary information and system power capabilities Available on the board. This tab will give information about generic system information and System power capabilities.

Fig 4.7 Generic System Information



The screenshot shows the Intel System Scope Tool interface. The top bar is blue with the Intel logo and the text "INTEL SYSTEM SCOPE TOOL 3.4.1001". On the right, there are menu items: "File", "Tools", and "Help". Below the top bar, there is a sidebar on the left with a search bar and a list of categories: "System Information", "BCD Store Entries", "BIOS Options", "Bluetooth", "Components Information", "DMA", "FPDT", "Firmware Version", "Generic System Information" (selected), "Graphics Information", "ICC Information", "IRQ", and "ME Information". The main area displays the "Generic System Information" tab, which contains a table with the following data:

Name	Value
<b>System Information</b>	
SMBIOS Version	2.8
SystemSKU	LENOVO_MT_20FX_BU_Think_FM_ThinkPad T460p
System Model	20FXS01209
Secure Boot State	On
HyperV VM Monitor Mode Extensions	No
HyperV Second Level Address Translation Extensions	No
HyperV Virtualization Enabled in Firmware	No
HyperV Data Execution Protection	Yes
MAC Address	A4:34:D9:C4:10:72
CPU Utilization	47.3%
YellowBang	Yes

At the bottom of the interface, there is a copyright notice: "Copyright © 2019 Intel Corporation. All rights reserved."

## System

### 4.8 Graphic Information

This shows information about the graphics. It shows the value of the T3 panel timing, Baseband version, Baseband product and some general information and graphics.

Fig 4.8 Graphic Information

The screenshot displays the Intel System Scope Tool interface. The top header bar is blue with the Intel logo and the text "INTEL SYSTEM SCOPE TOOL 3.4.1001". On the right side of the header are three dropdown menus: "File", "Tools", and "Help".

On the left side, there is a sidebar with a search bar and a list of system components. The "Graphics Information" component is selected and highlighted in dark blue. Other components listed include System, ACPI, Battery Information, BCD Store Entries, BIOS Options, Bluetooth, Components Information, DMA, FPD, Firmware Version, Generic System Information, and ICC Information.

The main content area shows the "Graphics Information" tab. It features a table with two columns: "Name" and "Value". The table is titled "GENERAL INFORMATION" and contains the following data:

Name	Value
Operating System	Windows 10 Enterprise
Build	16299
System Manufacturer	LENOVO
BaseBoard Manufacturer	LENOVO
BaseBoard Product	20FXS01209
Base Board Version	SDK0J40697 WIN
RAM	8192MB
DirectX Version	12
Aero	ON
Media SDK Version	12,0,10011,16384
MEI Version	No Information

At the bottom of the interface, a copyright notice reads: "Copyright © 2019 Intel Corporation. All rights reserved."



## System

### 4.9 ICC Information

Displays complete Information of the ICC content on the board. This tab will give integrated Clock circuit tool version and clock details.

Fig 4.9 ICC Information

The screenshot shows the Intel System Scope Tool interface. The top header is blue with the Intel logo and the text "INTEL SYSTEM SCOPE TOOL 3.4.1001". On the right of the header are links for "File", "Tools", and "Help". On the left is a sidebar menu with various system information categories. The "ICC Information" tab is selected and highlighted in blue. The main content area displays the ICC Information details in a table format.

Name	Value
<b>ICC Information</b>	
<b>ICC Tool Version</b>	
Intel (R) Clock Commander Tool Version	12.0.0.1007
<b>ICC Boot Status</b>	
HW Product Family	SPT-H
FW Version Major	11
FW Version Minor	8
FW Version Hotfix	50
FW Version Build	3425
ICC HW SKU	EXTREME

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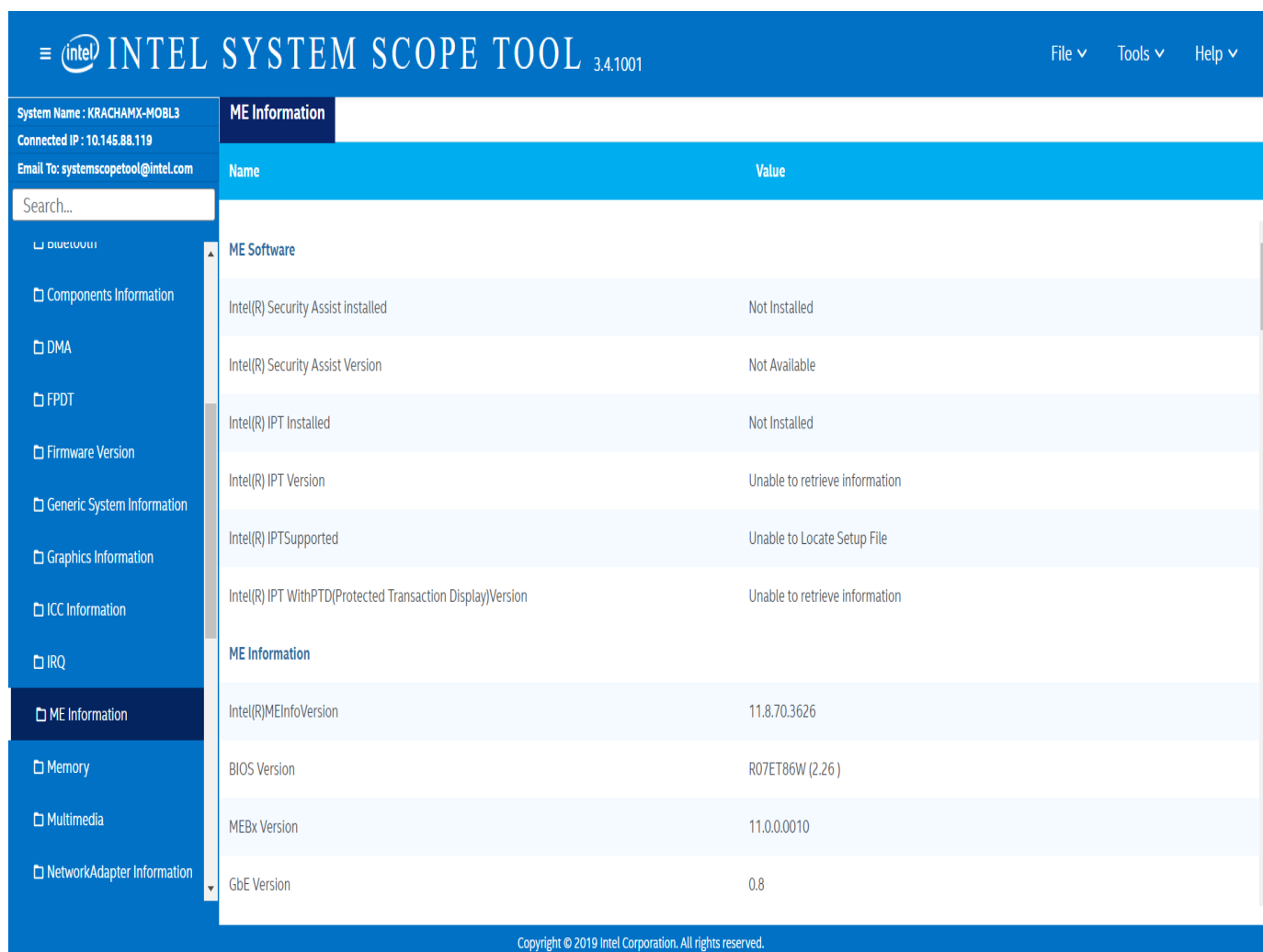
## System

### 4.10 ME Information

Displays the complete set of Information about the ME Information, ME firmware version and ME capabilities and IPT related Information. Install ME driver to view complete Information.

(ME driver version should be greater than or equal to ME firmware version)

Fig 4.10 ME Information



The screenshot shows the Intel System Scope Tool interface. The top bar displays the Intel logo, the tool name "INTEL SYSTEM SCOPE TOOL", and the version "3.4.1001". On the right, there are menu items: "File", "Tools", and "Help".

On the left side, there is a sidebar with a search bar and a list of categories: Components Information, DMA, FPDPT, Firmware Version, Generic System Information, Graphics Information, ICC Information, IRQ, ME Information (selected), Memory, Multimedia, and NetworkAdapter Information.

The main content area is titled "ME Information" and contains a table with two columns: "Name" and "Value".

Name	Value
<b>ME Software</b>	
Intel(R) Security Assist Installed	Not Installed
Intel(R) Security Assist Version	Not Available
Intel(R) IPT Installed	Not Installed
Intel(R) IPT Version	Unable to retrieve information
Intel(R) IPTSupported	Unable to Locate Setup File
Intel(R) IPT WithPTD(Protected Transaction Display)Version	Unable to retrieve information
<b>ME Information</b>	
Intel(R)MEInfoVersion	11.8.70.3626
BIOS Version	R07ET86W (2.26)
MEBx Version	11.0.0.0010
GbE Version	0.8

At the bottom of the interface, there is a copyright notice: "Copyright © 2019 Intel Corporation. All rights reserved."

## System

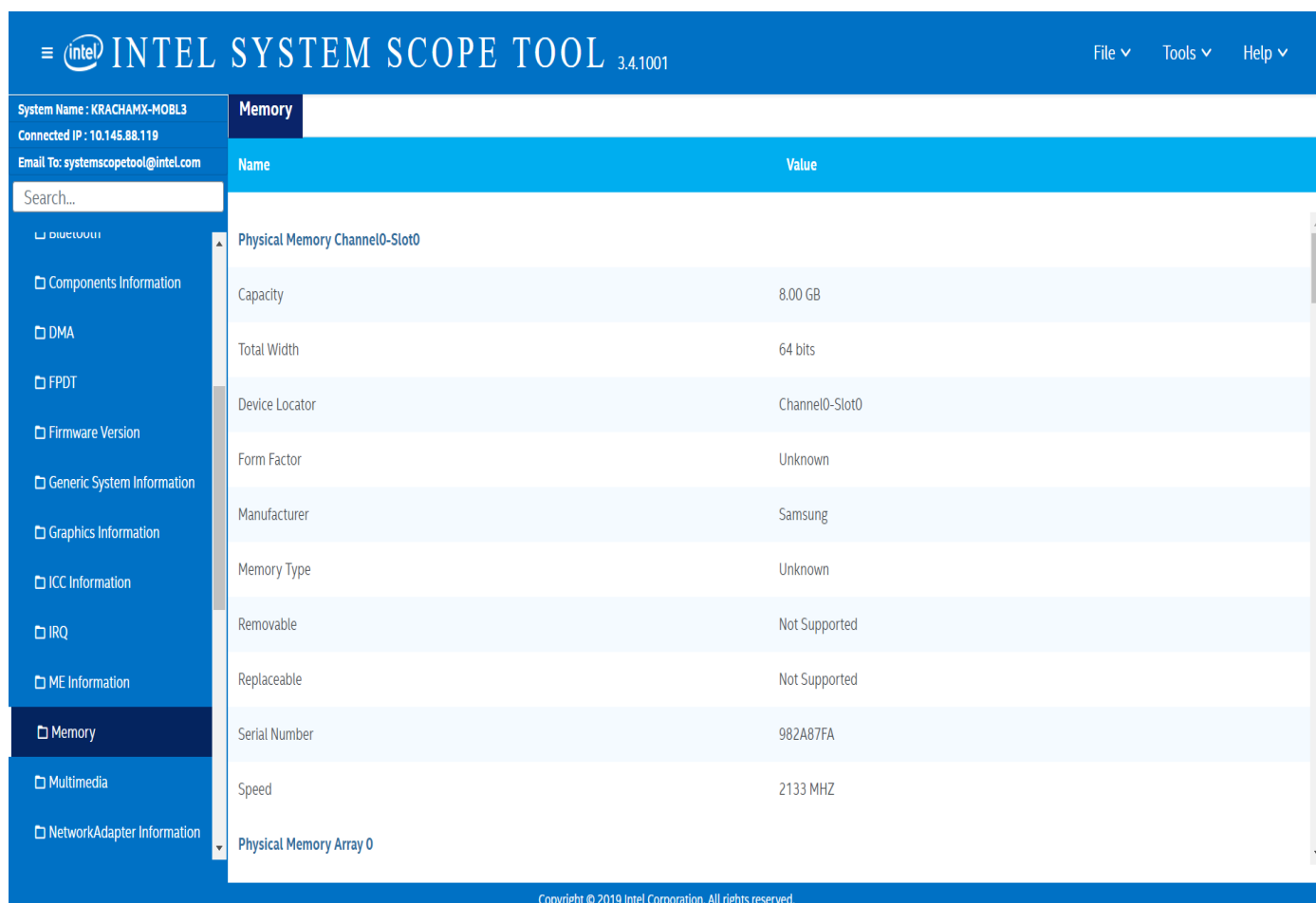
### 4.11 Memory

Click on “Memory tab” to get the memory details.

This tab will give the information about memory.

The details of all memories connected to the system (Hard disk, RAM and Removable Storage).

Fig 4.11 Memory



The screenshot displays the Intel System Scope Tool interface. The top header bar is blue with the Intel logo and the text "INTEL SYSTEM SCOPE TOOL 3.4.1001". On the right side of the header, there are menu items: "File", "Tools", and "Help".

On the left side, there is a sidebar with a search bar and a list of system components. The "Memory" component is selected and highlighted in dark blue. Other components listed include Components Information, DMA, FPD, Firmware Version, Generic System Information, Graphics Information, ICC Information, IRQ, ME Information, Multimedia, and NetworkAdapter Information.

The main area of the tool shows the details for the selected "Memory" component. It features a table with two columns: "Name" and "Value". The table lists various memory attributes for "Physical Memory Channel0-Slot0" and "Physical Memory Array 0".

Name	Value
<b>Physical Memory Channel0-Slot0</b>	
Capacity	8.00 GB
Total Width	64 bits
Device Locator	Channel0-Slot0
Form Factor	Unknown
Manufacturer	Samsung
Memory Type	Unknown
Removable	Not Supported
Replaceable	Not Supported
Serial Number	982A87FA
Speed	2133 MHZ
<b>Physical Memory Array 0</b>	

At the bottom of the interface, a copyright notice reads: "Copyright © 2019 Intel Corporation. All rights reserved."

## System

### 4.12 Bluetooth

This module gives the data of Paired and Visible Bluetooth Devices.

Figure 4.26 Bluetooth

**INTEL SYSTEM SCOPE TOOL 3.4.1001**

File ▾ Tools ▾ Help ▾

System Name : KRACHAMX-MOBL3  
Connected IP : 10.145.88.119  
Email To: systemscopetool@intel.com

Search...

**Bluetooth**

Name	Address	Class	Connected	Authenticated	Remembered
<b>Paired Devices</b>					
No Paired Device Found	NA	NA	NA	NA	NA
<b>Visible Devices</b>					
SHAIKAX-MOBL1	7C:7A:91:90:51:45	0x002a010c	false	false	false
HEMACHAX-MOBL	E8:B1:FC:08:ED:5E	0x002010c	false	false	false
Redmi 5A	22:22:EA:69:25:70	0x005a020c	false	false	false
YAKULAX-MOBL	5C:51:4F:F4:C9:4F	0x002a010c	false	false	false
Redmi 5	38:E6:0A:21:8B:FE	0x005a020c	false	false	false
MNEELA1X-MOBL	A0:A8:CD:B0:DE:56	0x002010c	false	false	false
AKUNNATX-MOBL1	0C:84:DC:DC:04:92	0x002a010c	false	false	false
DRAMAMUX-MOBL	5C:51:4F:F4:C9:86	0x002a010c	false	false	false
UP4-CNVI-GC	84:FD:D1:E9:43:C7	0x002a010c	false	false	false

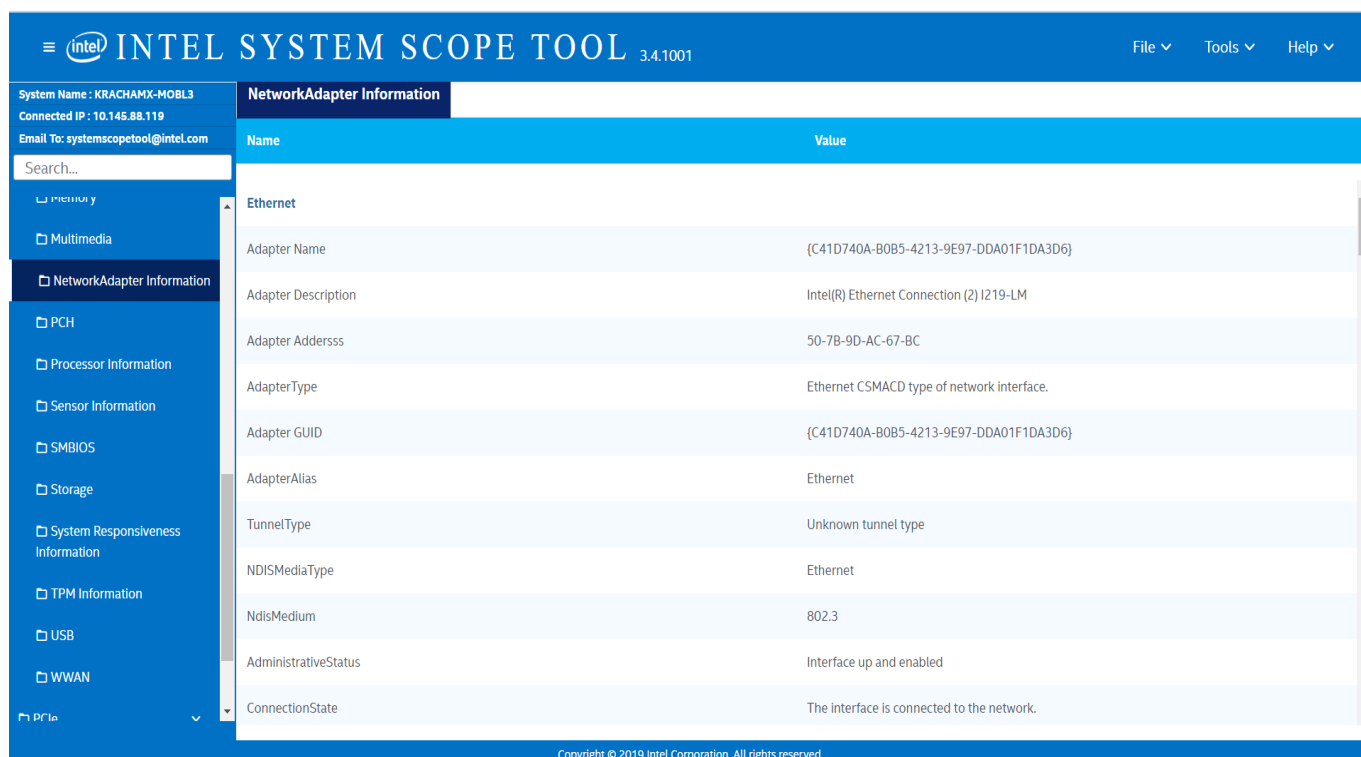
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## System

### 4.13 Network Adapter Information

Display the complete set of information about the network adaptors. This tab retrieves the Complete information about network data. It displays the description and value of net connection ID, status, Mac address and information relate to network adapters.

Fig 4.13 Network Adaptor Information



The screenshot shows the Intel System Scope Tool interface. The top bar includes the Intel logo, the text "INTEL SYSTEM SCOPE TOOL 3.4.1001", and menu items "File", "Tools", and "Help". On the left, a sidebar lists various system components: Memory, Multimedia, NetworkAdapter Information (selected), PCH, Processor Information, Sensor Information, SMBIOS, Storage, System Responsiveness Information, TPM Information, USB, and WWAN. The main area displays the "NetworkAdapter Information" tab, which contains a table with the following data:

Name	Value
<b>Ethernet</b>	
Adapter Name	{C41D740A-B0B5-4213-9E97-DDA01F1DA3D6}
Adapter Description	Intel(R) Ethernet Connection (2) I219-LM
Adapter Addresss	50-7B-9D-AC-67-BC
AdapterType	Ethernet CSMACD type of network interface.
Adapter GUID	{C41D740A-B0B5-4213-9E97-DDA01F1DA3D6}
AdapterAlias	Ethernet
TunnelType	Unknown tunnel type
NDISMediaType	Ethernet
NdisMedium	802.3
AdministrativeStatus	Interface up and enabled
ConnectionState	The interface is connected to the network.

At the bottom of the interface, a copyright notice reads: "Copyright © 2019 Intel Corporation. All rights reserved."

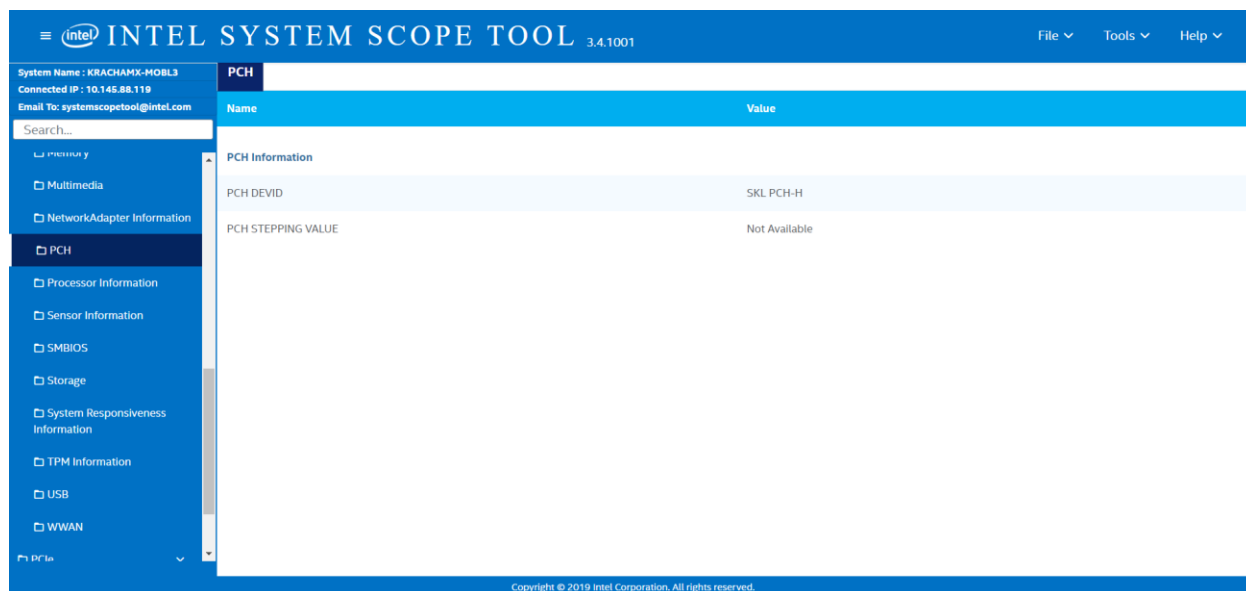
## System

### 4.14 PCH Information

Click on “PCH” tab, it displays the complete information of the processor controller hub details

PCH DEVID, PCH STEPPING VALUE.

Fig 4.14 PCH Information



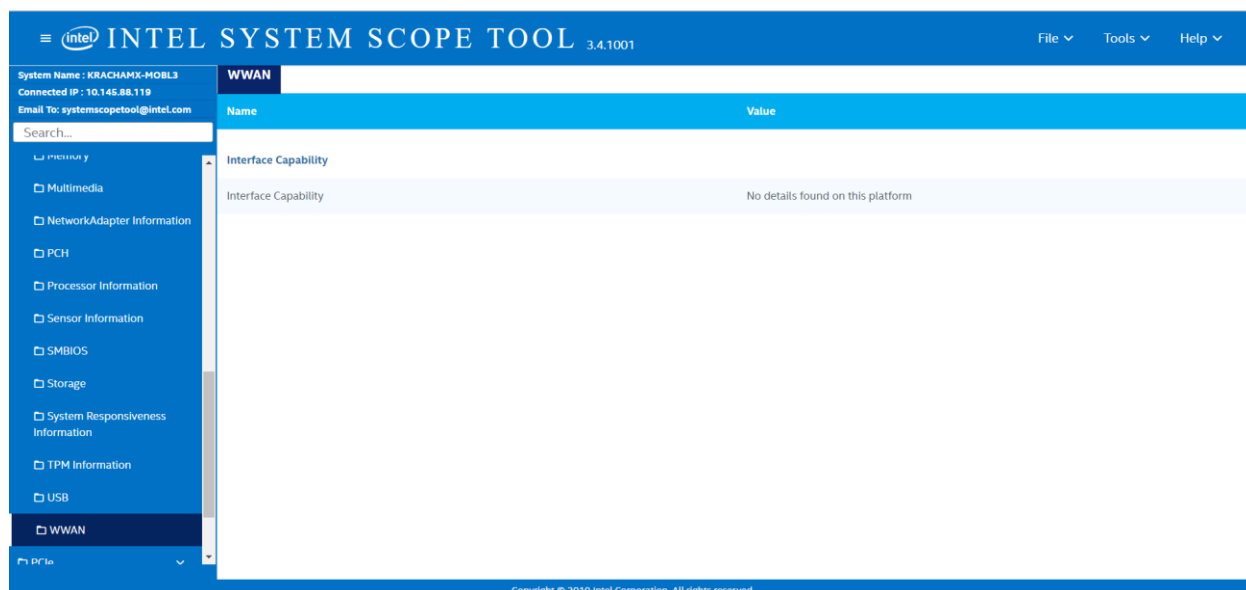
The screenshot shows the Intel System Scope Tool interface. The left sidebar contains a list of system components, with 'PCH' selected. The main area displays the 'PCH' tab, which shows a table of PCH information. The table has two columns: 'Name' and 'Value'.

Name	Value
PCH Information	
PCH DEVID	SKL PCH-H
PCH STEPPING VALUE	Not Available

### 4.15 WWAN

This module gives the interface capabilities and basic information of connected WWAN device.

Figure 4.15 WWAN



The screenshot shows the Intel System Scope Tool interface. The left sidebar contains a list of system components, with 'WWAN' selected. The main area displays the 'WWAN' tab, which shows a table of WWAN information. The table has two columns: 'Name' and 'Value'.

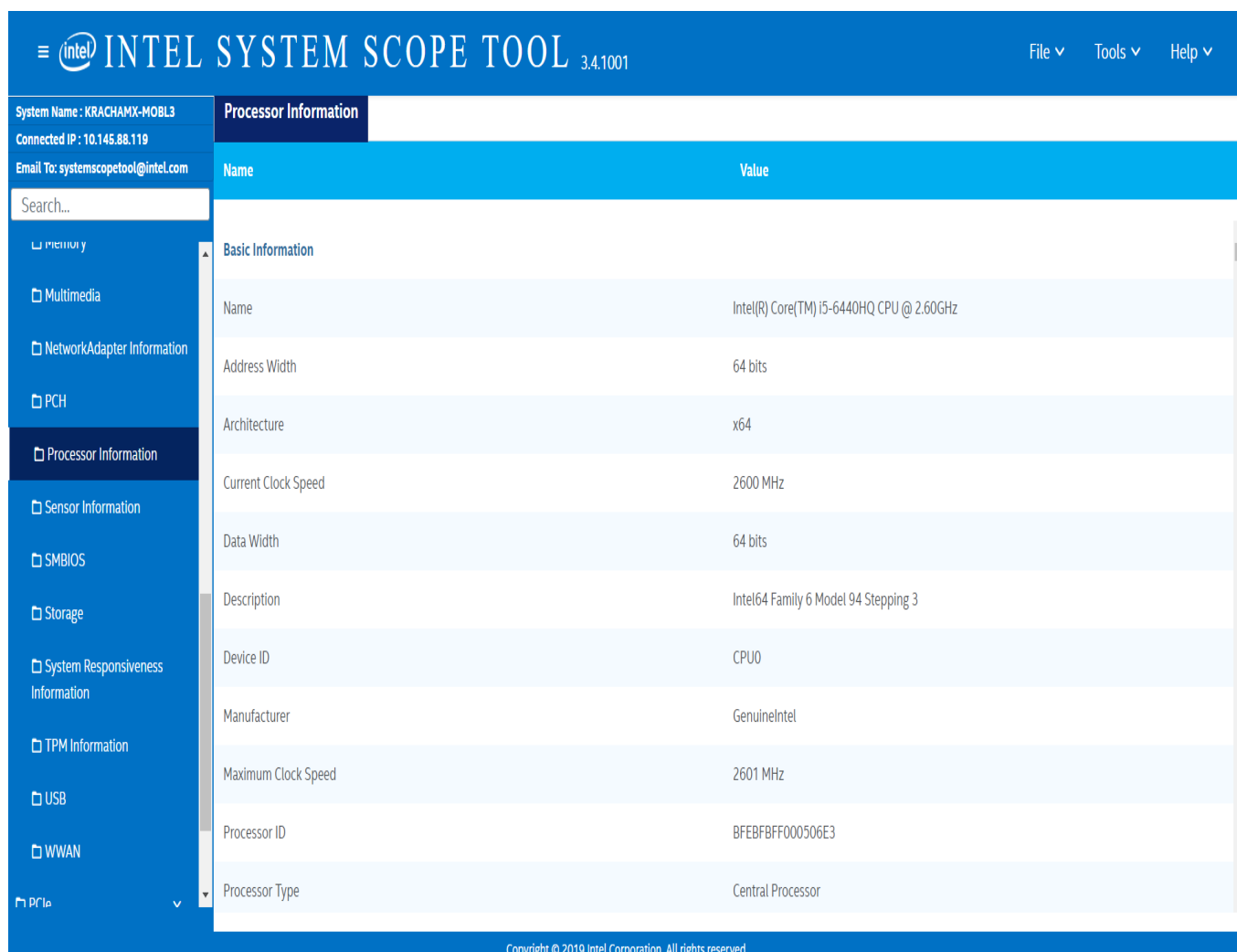
Name	Value
Interface Capability	
Interface Capability	No details found on this platform

## System

### 4.16 Processor Information

Click on “Processor Information” to view the complete processor information. It contains topology, Instructions, p state. This will displays the complete information about processor available on Board.

Fig 4.16 Processor Information



The screenshot displays the Intel System Scope Tool interface. The top header bar is blue with the Intel logo and the text "INTEL SYSTEM SCOPE TOOL 3.4.1001". On the right side of the header are links for "File", "Tools", and "Help".

On the left side, there is a sidebar menu with various system components listed: Memory, Multimedia, NetworkAdapter Information, PCH, Processor Information (highlighted), Sensor Information, SMBIOS, Storage, System Responsiveness Information, TPM Information, USB, and WWAN. Below these is a "PCID" section with a dropdown arrow.

The main content area is titled "Processor Information" and contains a table with the following data:

Name	Value
<b>Basic Information</b>	
Name	Intel(R) Core(TM) i5-6440HQ CPU @ 2.60GHz
Address Width	64 bits
Architecture	x64
Current Clock Speed	2600 MHz
Data Width	64 bits
Description	Intel64 Family 6 Model 94 Stepping 3
Device ID	CPU0
Manufacturer	GenuineIntel
Maximum Clock Speed	2601 MHz
Processor ID	BFEBFBFF000506E3
Processor Type	Central Processor

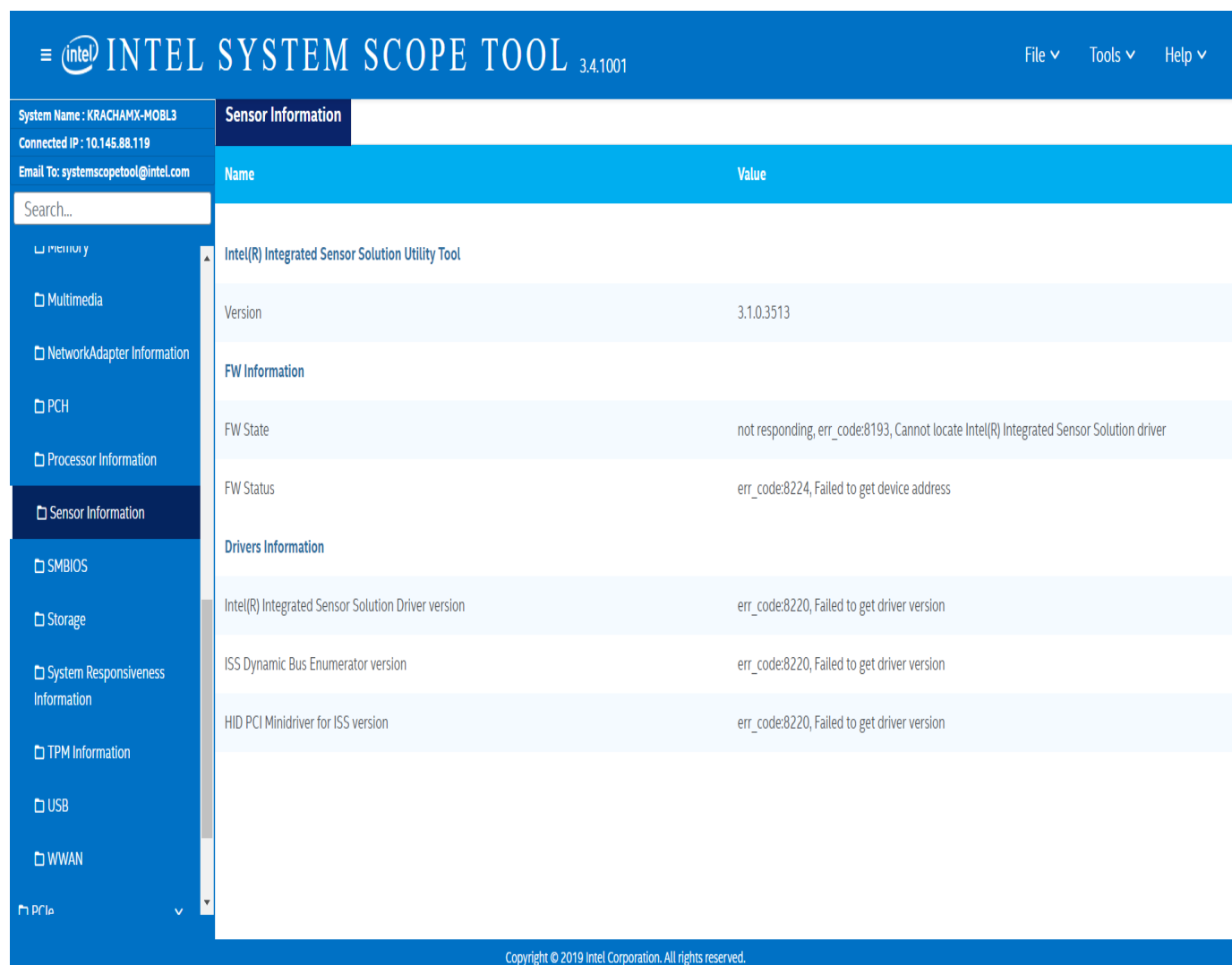
At the bottom of the interface, a copyright notice reads: "Copyright © 2019 Intel Corporation. All rights reserved."

## System

### 4.17 Sensor Information

Displays complete information of the sensors available on the board. This tab will give information About sensors. It displays the information about sensor properties available on machine.

Fig 4.17 Sensor Information



The screenshot shows the Intel System Scope Tool interface. The top header bar is blue with the Intel logo and the text "INTEL SYSTEM SCOPE TOOL 3.4.1001". On the right side of the header, there are links for "File", "Tools", and "Help".

On the left side, there is a sidebar menu with various system components listed: Memory, Multimedia, NetworkAdapter Information, PCH, Processor Information, **Sensor Information** (highlighted), SMBIOS, Storage, System Responsiveness Information, TPM Information, USB, WWAN, and PCIO. Above the menu is a search bar labeled "Search...".

The main content area displays the "Sensor Information" tab. It features a table with two columns: "Name" and "Value".

Name	Value
<b>Intel(R) Integrated Sensor Solution Utility Tool</b>	
Version	3.1.0.3513
<b>FW Information</b>	
FW State	not responding, err_code:8193, Cannot locate Intel(R) Integrated Sensor Solution driver
FW Status	err_code:8224, Failed to get device address
<b>Drivers Information</b>	
Intel(R) Integrated Sensor Solution Driver version	err_code:8220, Failed to get driver version
ISS Dynamic Bus Enumerator version	err_code:8220, Failed to get driver version
HID PCI Minidriver for ISS version	err_code:8220, Failed to get driver version

At the bottom of the interface, a footer bar contains the text: "Copyright © 2019 Intel Corporation. All rights reserved."



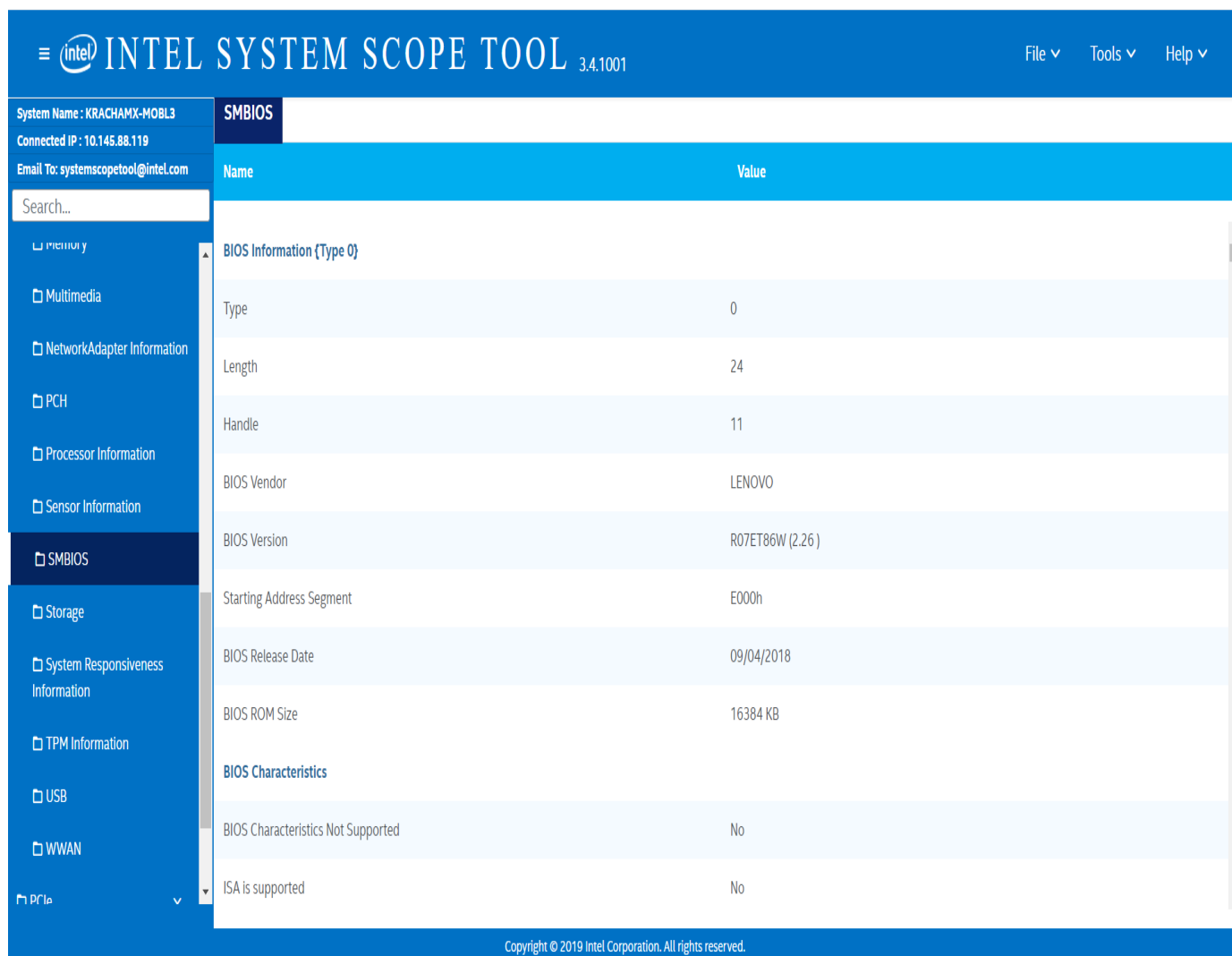
## System

### 4.18 SMBIOS

Click on “SMBIOS” tab to view the complete information. This is BIOS dependent.

SMBIOS needs to export this information through SMBIOS details.

Figure 4.18 SMBIOS



The screenshot displays the Intel System Scope Tool interface. The top header shows the Intel logo, the tool name "INTEL SYSTEM SCOPE TOOL", and the version "3.4.1001". On the right, there are links for "File", "Tools", and "Help". The left sidebar contains a list of system components: Memory, Multimedia, NetworkAdapter Information, PCH, Processor Information, Sensor Information, **SMBIOS** (selected), Storage, System Responsiveness Information, TPM Information, USB, WWAN, and PCIO. The main content area is titled "SMBIOS" and displays a table of BIOS information.

Name	Value
<b>BIOS Information {Type 0}</b>	
Type	0
Length	24
Handle	11
BIOS Vendor	LENOVO
BIOS Version	R07ET86W (2.26)
Starting Address Segment	E000h
BIOS Release Date	09/04/2018
BIOS ROM Size	16384 KB
<b>BIOS Characteristics</b>	
BIOS Characteristics Not Supported	No
ISA is supported	No

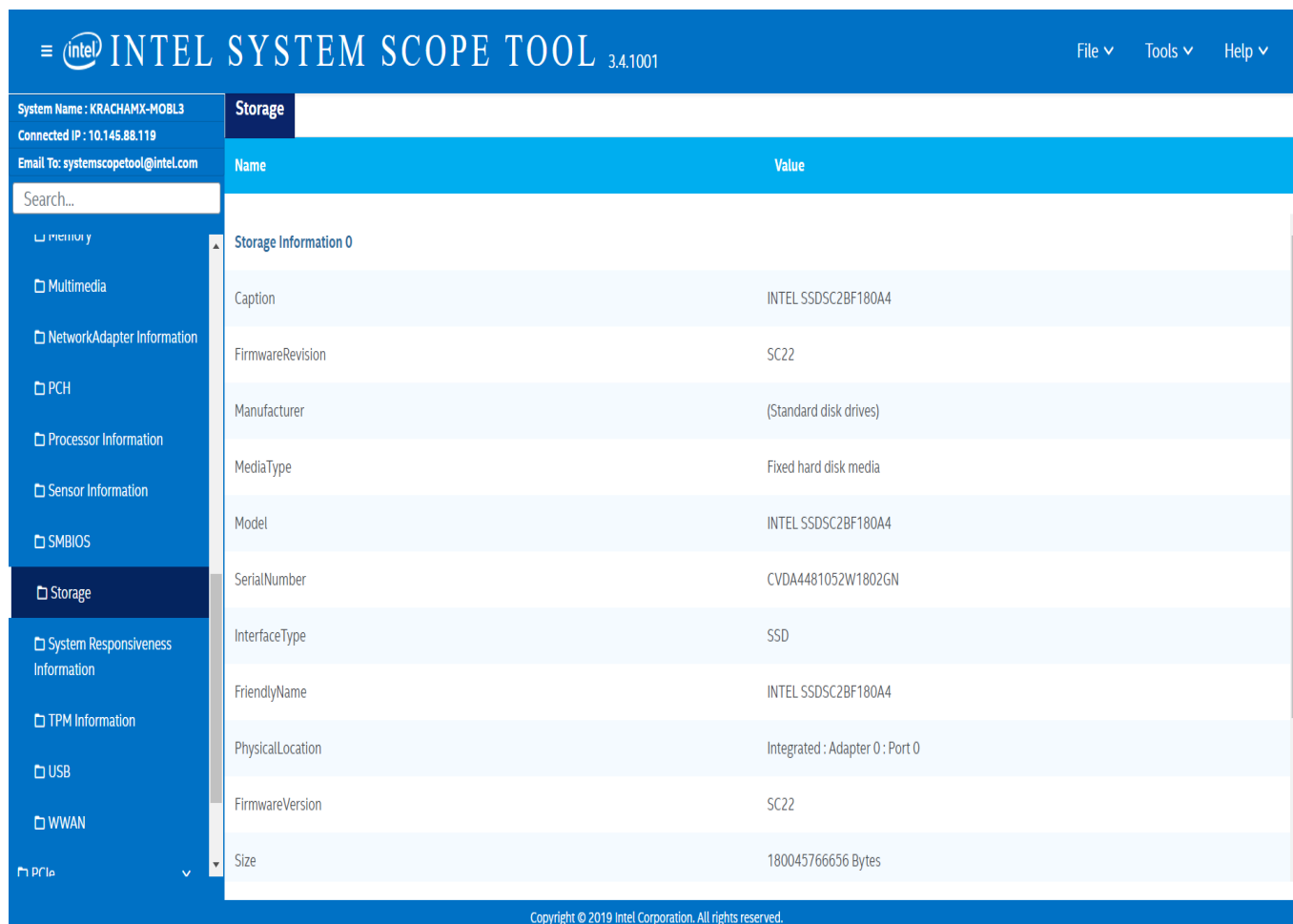
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## System

### 4.19 Storage

Click on “Storage” tab to get the storage details. This tab will give the information about the Caption, firmware revision, interface type, manufacturer, media type, model and serial number.

Figure 4.19 Storage



**INTEL SYSTEM SCOPE TOOL** 3.4.1001

File ▾ Tools ▾ Help ▾

System Name : KRACHAMX-MOBL3  
Connected IP : 10.145.88.119  
Email To: systems scopetool@intel.com

Search...

- Memory
- Multimedia
- Network Adapter Information
- PCH
- Processor Information
- Sensor Information
- SMBIOS
- Storage**
- System Responsiveness Information
- TPM Information
- USB
- WWAN
- PCIe ▾

Name	Value
<b>Storage Information 0</b>	
Caption	INTEL SSDSC2BF180A4
FirmwareRevision	SC22
Manufacturer	(Standard disk drives)
MediaType	Fixed hard disk media
Model	INTEL SSDSC2BF180A4
SerialNumber	CVDA4481052W1802GN
InterfaceType	SSD
FriendlyName	INTEL SSDSC2BF180A4
PhysicalLocation	Integrated : Adapter 0 : Port 0
FirmwareVersion	SC22
Size	180045766656 Bytes

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## System

### 4.20 System Responsiveness Information

Click on complete System Responsiveness Information to view the timing information for boot, Hibernate and sleep.

Figure 4.20 System Responsiveness Information

The screenshot displays the Intel System Scope Tool interface. The top header bar is blue with the Intel logo and the text "INTEL SYSTEM SCOPE TOOL 3.4.1001". On the right side of the header, there are three dropdown menus: "File", "Tools", and "Help".

On the left side, there is a sidebar with a search bar and a list of system components. The "System Responsiveness Information" component is currently selected and highlighted in dark blue. Other components listed include System, Multimedia, Network Adapter Information, PCH, Processor Information, Sensor Information, SMBIOS, Storage, TPM Information, USB, and WWAN.

The main content area shows the "System Responsiveness Information" table. The table has two columns: "Name" and "Value". The data is as follows:

Name	Value
SystemResponsiveness	
S3:Button-to-Image(Total Time)	165Sec
BIOS Resume Duration	0 ms
Sleep Duration	10635mSec
Wake duration	420mSec
Bios Init Duration	0mSec

At the bottom of the interface, there is a footer bar with the text "Copyright © 2019 Intel Corporation. All rights reserved."

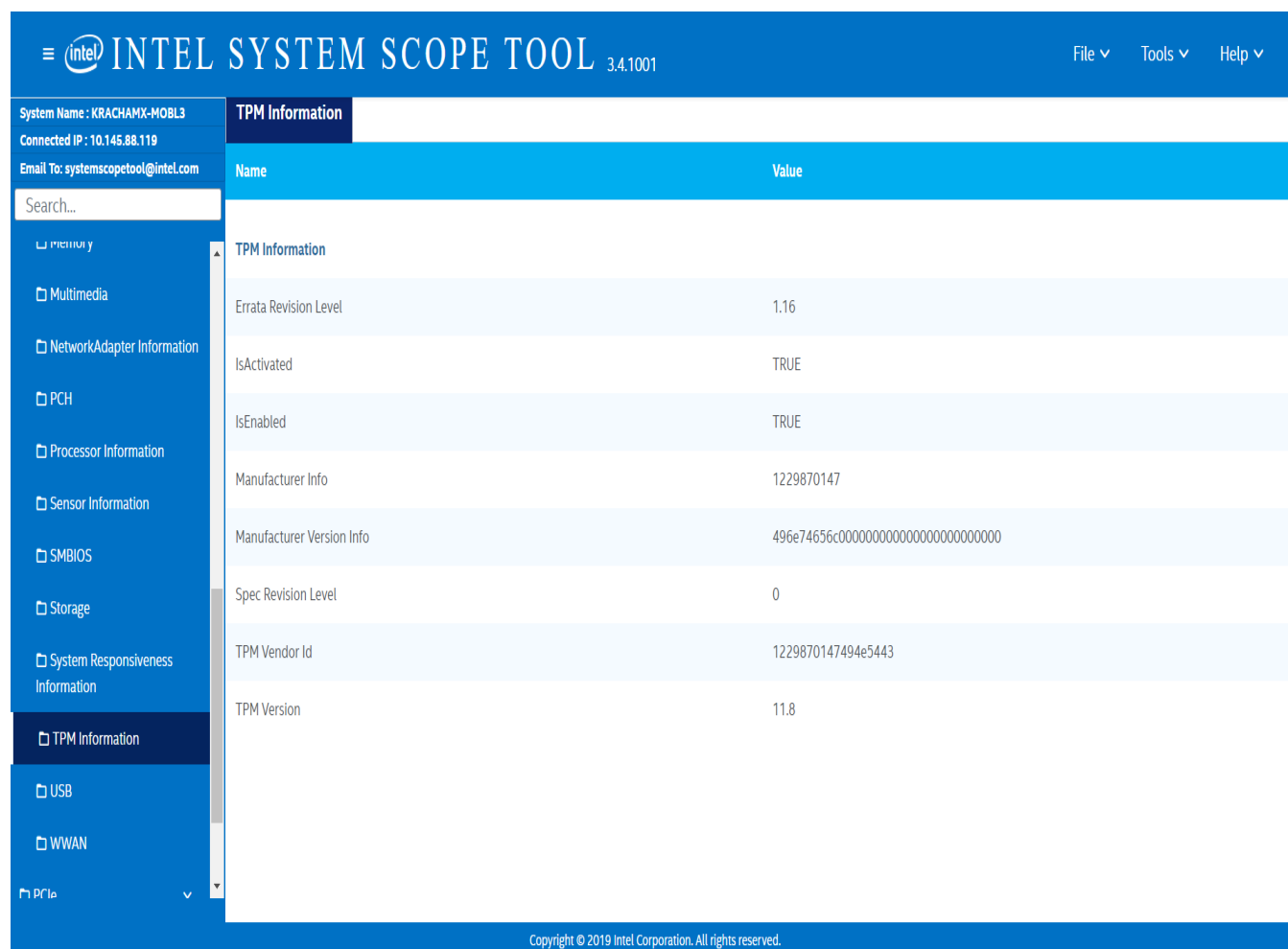
## System

### 4.21 TPM Information

Click on “TPM Information” tab to get the TPM details. This tab will give information about TPM.

This tab displays the manufacturer info and TPM vendor ID and version.

Figure 4.21 TPM Information



The screenshot shows the Intel System Scope Tool interface. The top header bar is blue with the Intel logo and the text "INTEL SYSTEM SCOPE TOOL 3.4.1001". On the right side of the header, there are links for "File", "Tools", and "Help". Below the header, on the left, there is a sidebar with a search bar and a list of system components: Memory, Multimedia, NetworkAdapter Information, PCH, Processor Information, Sensor Information, SMBIOS, Storage, System Responsiveness Information, TPM Information (highlighted), USB, WWAN, and PCIe. The main content area displays the "TPM Information" tab. It features a table with two columns: "Name" and "Value". The table contains the following data:

Name	Value
<b>TPM Information</b>	
Errata Revision Level	1.16
IsActivated	TRUE
IsEnabled	TRUE
Manufacturer Info	1229870147
Manufacturer Version Info	496e74656c0000000000000000000000
Spec Revision Level	0
TPM Vendor Id	1229870147494e5443
TPM Version	11.8

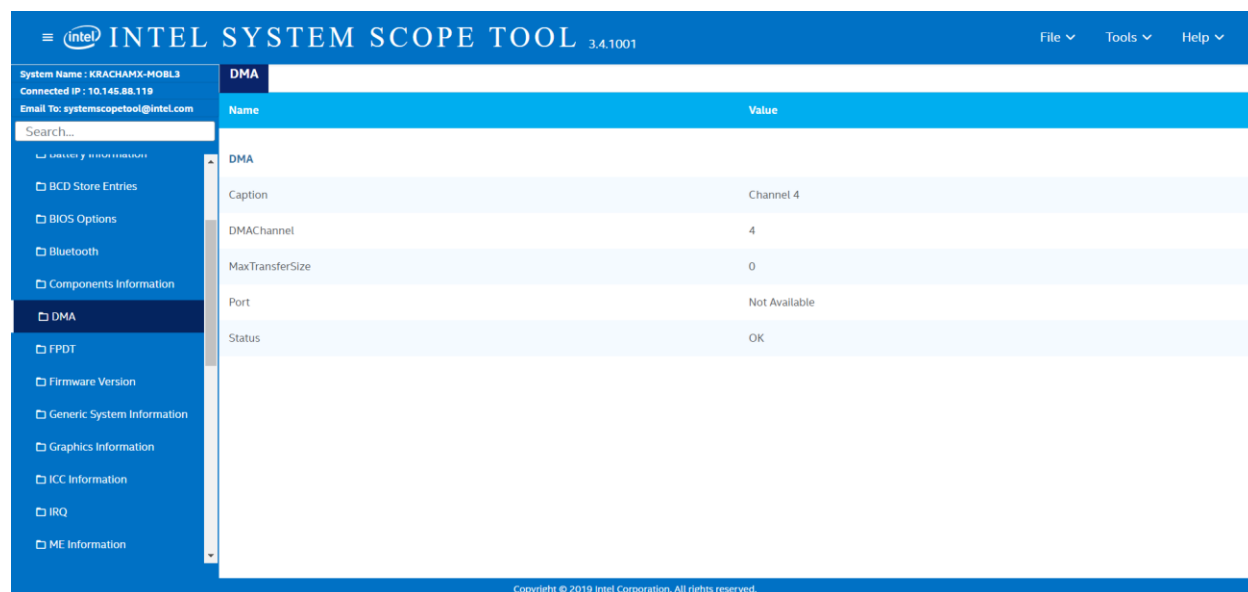
At the bottom of the interface, a footer bar contains the text: "Copyright © 2019 Intel Corporation. All rights reserved."

## System

### 4.22 DMA

This module gives the information about DMA (Direct Memory Access).

Figure 4.22 DMA



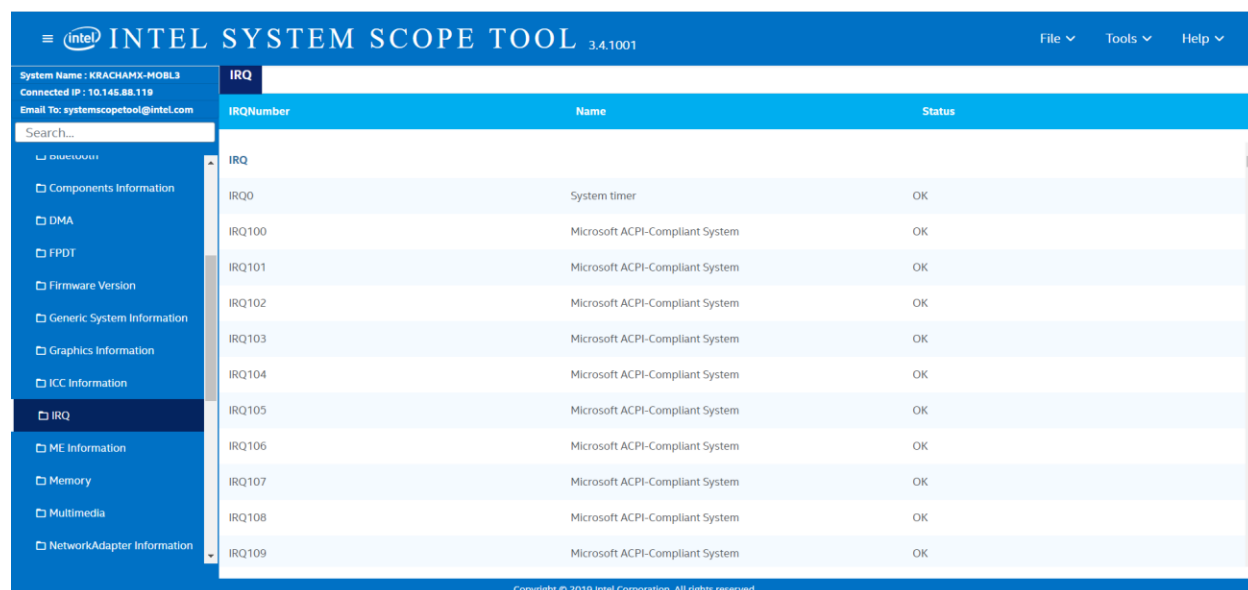
INTEL SYSTEM SCOPE TOOL 3.4.1001		
System Name : KRACHAMX-MOBL3 Connected IP : 10.145.88.119 Email To: systemscope@intel.com		
Search...		
DMA		
Name	Value	
DMA	Channel 4	
DMACHannel	4	
MaxTransferSize	0	
Port	Not Available	
Status	OK	

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### 4.23 IRQ

This module give the information about all the Resource – Device IRQ numbers.

Figure 4.23 IRQ



INTEL SYSTEM SCOPE TOOL 3.4.1001		
System Name : KRACHAMX-MOBL3 Connected IP : 10.145.88.119 Email To: systemscope@intel.com		
Search...		
IRQ		
IRQNumber	Name	Status
IRQ		
IRQ0	System timer	OK
IRQ100	Microsoft ACPI-Compliant System	OK
IRQ101	Microsoft ACPI-Compliant System	OK
IRQ102	Microsoft ACPI-Compliant System	OK
IRQ103	Microsoft ACPI-Compliant System	OK
IRQ104	Microsoft ACPI-Compliant System	OK
IRQ105	Microsoft ACPI-Compliant System	OK
IRQ106	Microsoft ACPI-Compliant System	OK
IRQ107	Microsoft ACPI-Compliant System	OK
IRQ108	Microsoft ACPI-Compliant System	OK
IRQ109	Microsoft ACPI-Compliant System	OK

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## System

### 4.24 BIOS Options

This module displays all the options in the Bios page along with their current value.

Figure 4.24 BIOS Options

Name	Value	Prompt	Description
???			
MipiCam_ControlLogic0	Disabled	Control Logic 1	Control Logic 1
MipiCam_ControlLogic1	Disabled	Control Logic 2	Control Logic 2
MipiCam_ControlLogic2	Disabled	Control Logic 3	Control Logic 3
MipiCam_ControlLogic3	Disabled	Control Logic 4	Control Logic 4
MipiCam_Link0	Disabled	Camera1	Camera1
MipiCam_Link1	Disabled	Camera2	Camera2
MipiCam_Link2	Disabled	Camera3	Camera3
MipiCam_Link3	Disabled	Camera4	Camera4
MipiCam_Link0_SensorModel	OV16860	Sensor Model	Sensor Model
MipiCam_Link0_UserHid	0x00000000000000000000000000000000	Custom HID	Custom HID
MipiCam_LanesClkDiv	4 2 2	Lanes Clock division	Lanes Clock division
MipiCam_Link0_DriverData_CrdVersion	CRD-G2	CRD Version	CRD Version

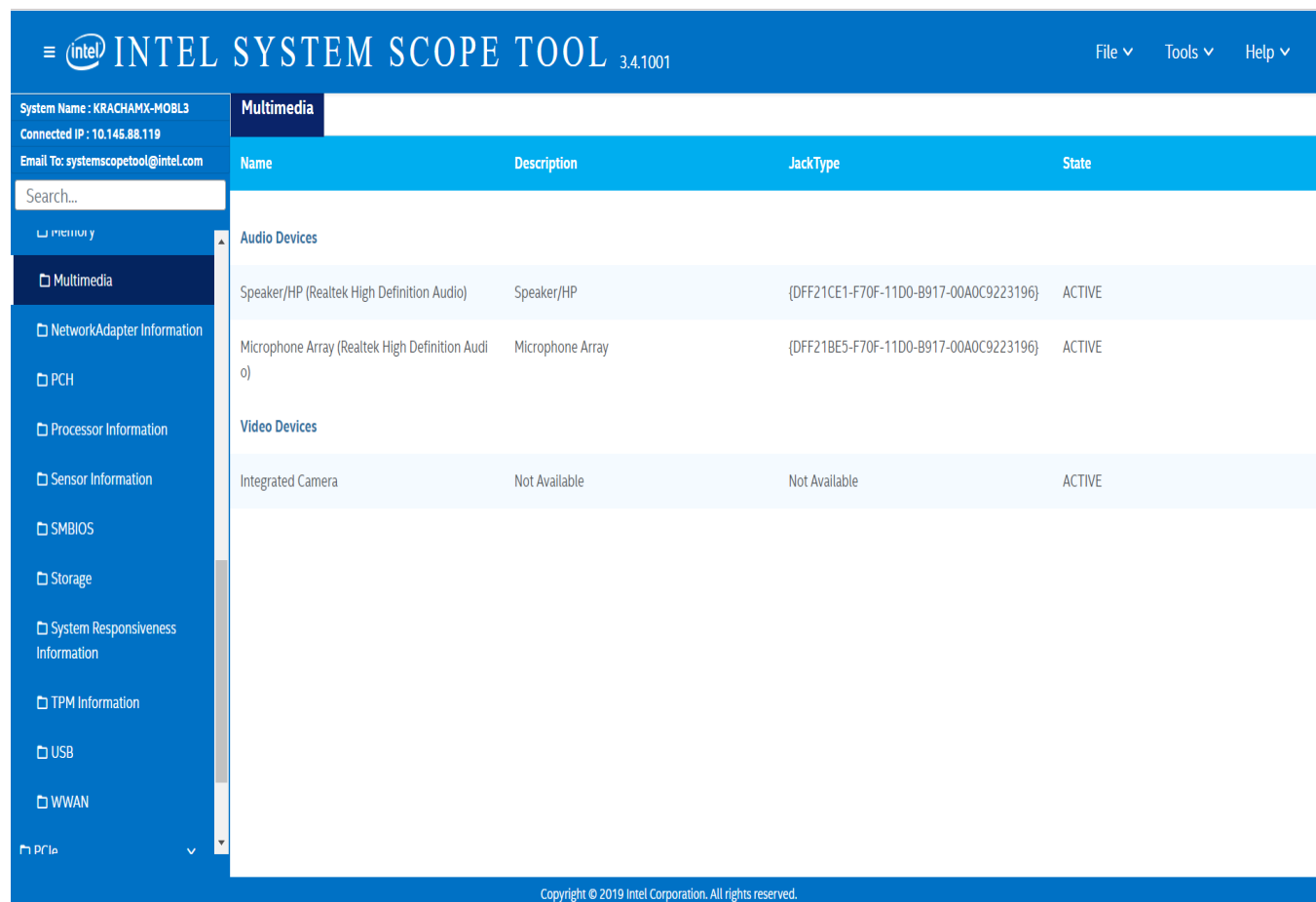
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## System

### 4.25 Multimedia

This module gives the data of all the audio and video devices.

Figure 4.27 Multimedia



**INTEL SYSTEM SCOPE TOOL** 3.4.1001

File ▾ Tools ▾ Help ▾

System Name: KRACHAMX-MOBL3  
Connected IP: 10.145.88.119  
Email To: systemscope@intel.com

Search...

Media

Multimedia

NetworkAdapter Information

PCH

Processor Information

Sensor Information

SMBIOS

Storage

System Responsiveness Information

TPM Information

USB

WWAN

PCIe ▾

Name	Description	JackType	State
<b>Audio Devices</b>			
Speaker/HP (Realtek High Definition Audio)	Speaker/HP	{DFF21CE1-F70F-11D0-B917-00A0C9223196}	ACTIVE
Microphone Array (Realtek High Definition Audio)	Microphone Array	{DFF21BE5-F70F-11D0-B917-00A0C9223196}	ACTIVE
<b>Video Devices</b>			
Integrated Camera	Not Available	Not Available	ACTIVE

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## 5. PCIe Information

Click on the “PCIe” tab for viewing the PCIe Information.

### 5.1 PCIDevList

Click on “PCIDevList” tab to get the details of pcidevlist. This tab gives complete PCI information, PCI Header Register and PCI dump

Figure 5.1.0 PCIDevList

**INTEL SYSTEM SCOPE TOOL** 3.4.1001

File ▾ Tools ▾ Help ▾

System Name : KRACHAMY-MOBL3  
 Connected IP : 10.145.88.119  
 Email To: systems scopetool@intel.com

Search...

- System Summary
- Software ▾
- System ▾
- PCIe ▾
  - PCIDevList ▾
    - [00:00:00] Host/PCI Bridge Device
    - [00:02:00] PC Compatible Display Controller
    - [00:14:00] USB (Universal Serial Bus) Serial Bus Controller
    - [00:14:02] Reserved Reserved
    - [00:16:00] Other Simple Communications Controller

Description	Value
<b>Information</b>	
Seg:Bus:Dev:Fun	50:B0:D0:F0
Physical Address	0x00000000F8000000
Vendor ID	8086
Device ID	1910
Vendor Name	Intel Corporation
Description	Skylake Host Bridge/DRAM Registers
Sub Vendor ID	17aa
Sub Device ID	17aa Lenovo 5050
Sub Vendor Name	Lenovo 5050
Class	BRIDGE_DEV, Host
Non PCIe Device	Vendor Specific

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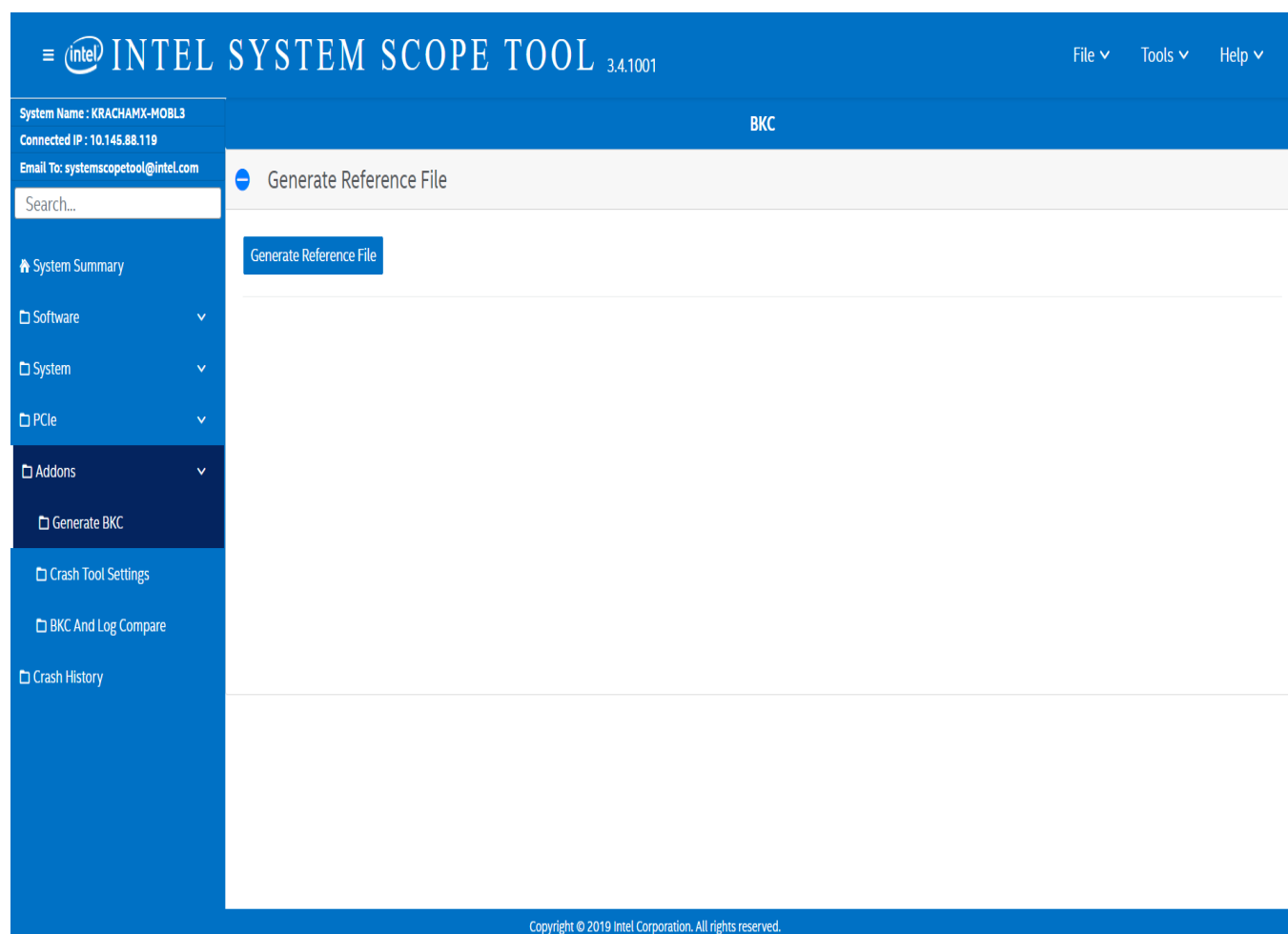


## 6. Generate BKC

After select the Generate BKC from add-on, the following BKC page is displayed.

Click on “Generate BKC” tab to generate and compare BKC’s.

Figure 6.0 Generate BKC



## Generate BKC

### 6.1 Generate Reference File

Use this option to generate the reference file for the selected one.

Click on “Generate Reference File”, displays the list. Select any one from the list and click on “Save reference file”.

Figure 6.1 Generate Reference File

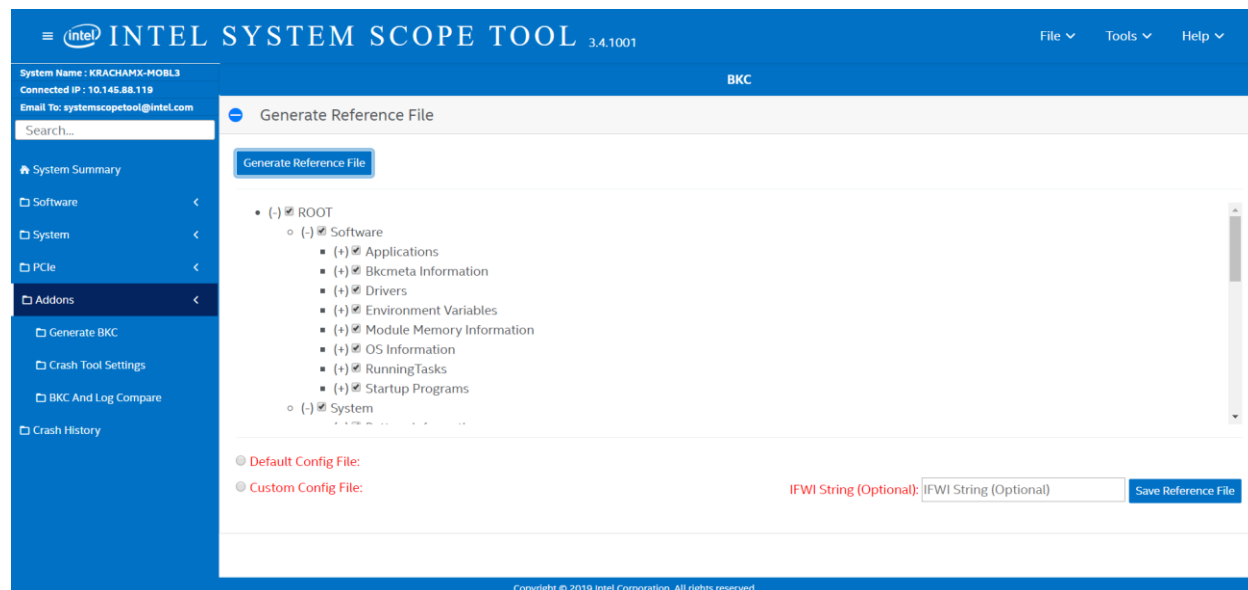
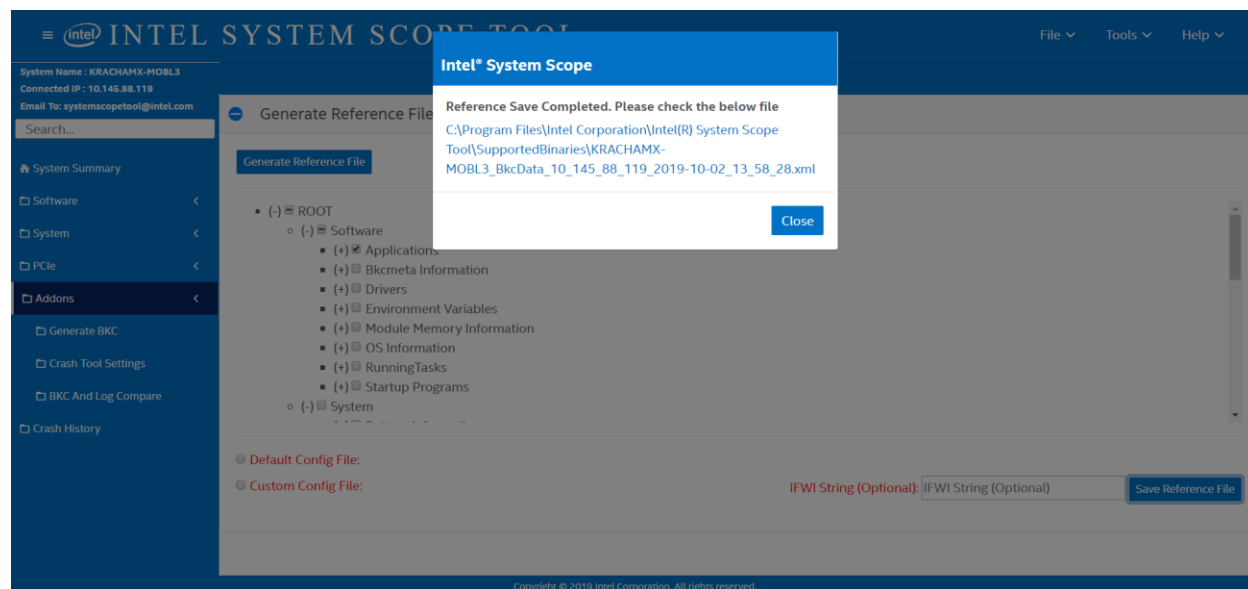


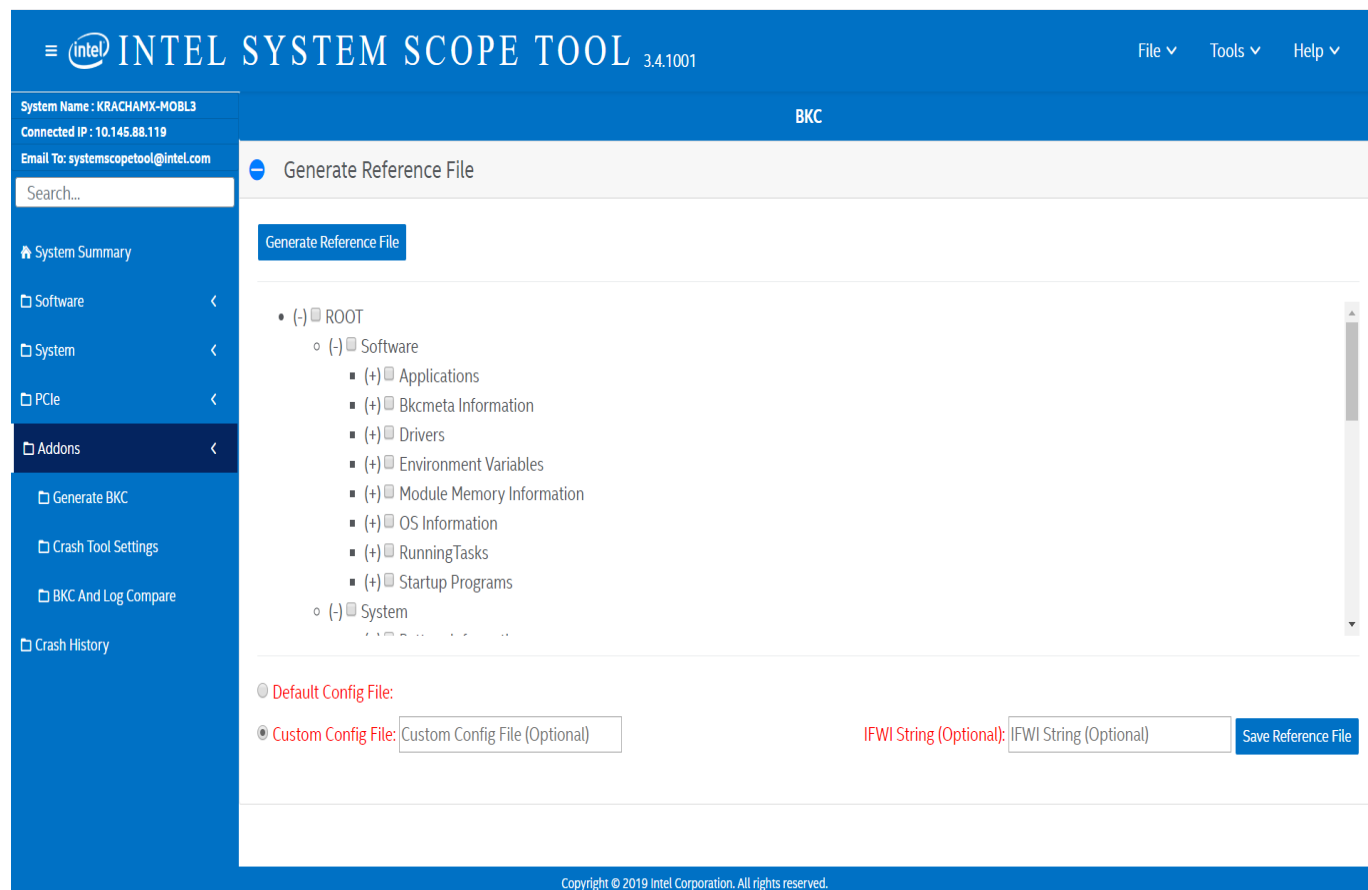
Figure 6.1.1 Generated Reference File Result



Click on the hyperlink to open the file. File will be opened in default browser.

## Generate BKC

Figure 6.2.2 BKC Generation from Template / Config File



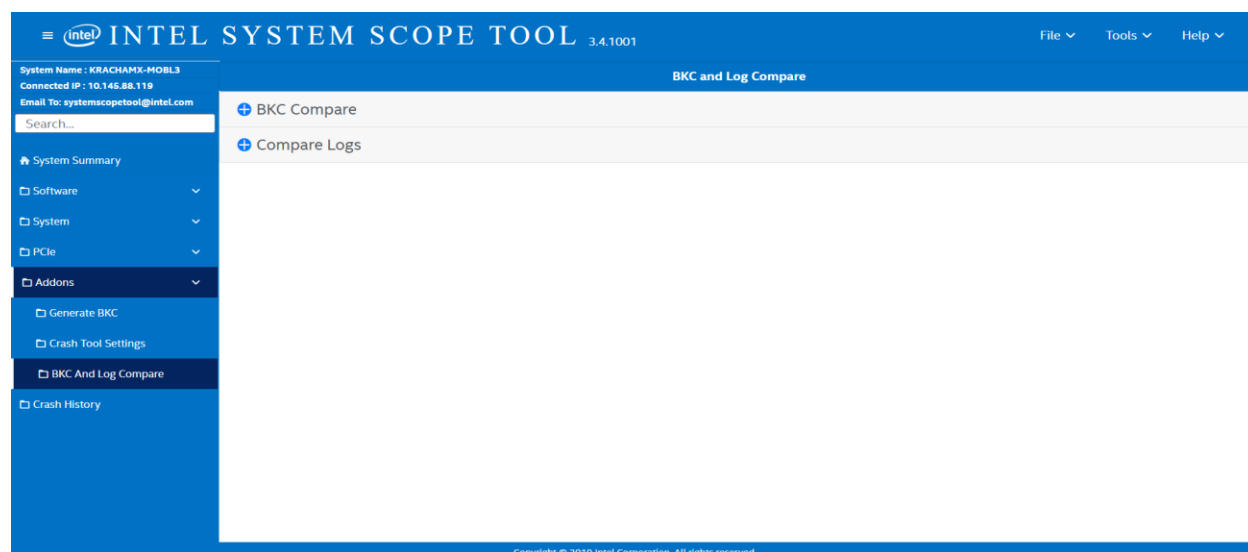
User can also generate BKC File by selecting the 'Default Config File' option. This will create BKC File for the default BKC Template present in the tool install location.

User can also enter any custom path for BKC Template by selecting the 'Custom Config File' option and enter the file name.

## 7. BKC and Log Compare

BKC and Log Compare Tab from add-on, has two features namely BKC Compare and Compare Logs.

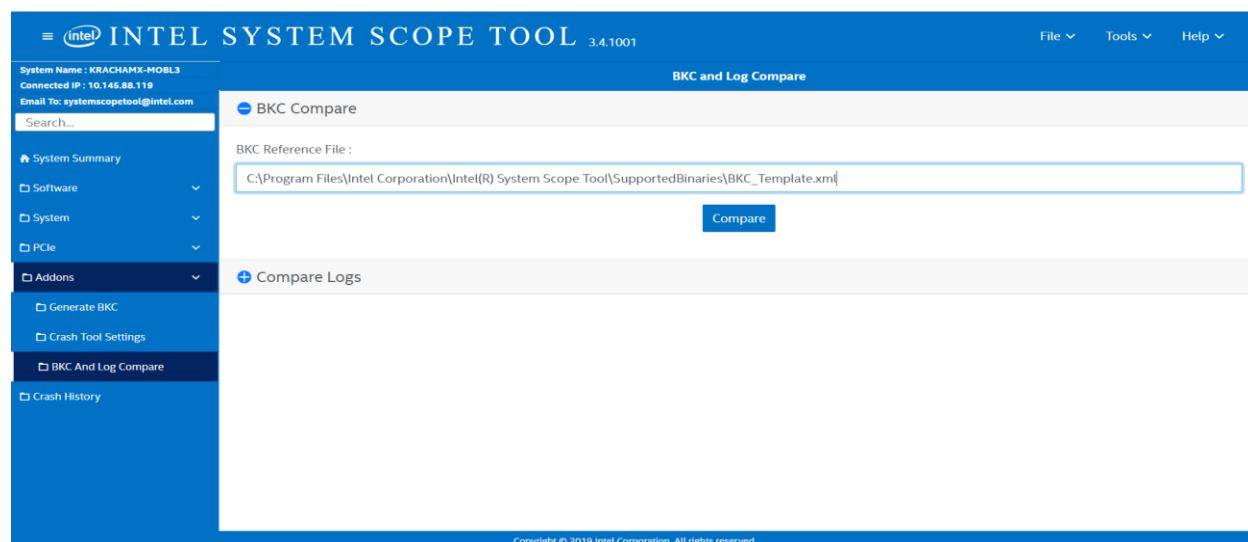
Figure 7.0 BKC And Log Compare



### 7.1 BKC Compare

On click on BKC Compare, corresponding tab will expand. Here we can compare the BKC File With system configuration. We can provide BKC Reference File, BKC Template and XML log file.

Figure 7.1.0 BKC Compare



## BKC and Log Compare

After Click on Compare, Overall Summary of the Comparison will be displayed and Comparison HTML and XLS report will be saved. After Click on View result the comparison report will open in the default browser. Result file is accessible from browser, only if the user is an administrator.

Figure 7.1.1 BKC Overall Summary

**BKC Compare**

BKC Reference File :  
C:\OWR\meta.spec

**Compare**

**Reference Overall Summary**

Result: **View Result**

Detailed Summary:

Total Compared	27
Matched	0 (0.00%)
UnMatched	26 (96.30%)
Newer than Reference File	1 (3.70%)
Optional Unmatched	0 (0.00%)

Figure 7.1.2 BKC Compare HTML Report

**System Scope V3.4.1001**

IP Address : 10.145.88.119

System Name : KRACHAMX-MOBL3

Created on: 2019-10-02\_14:31:16

■ passed 
 ■ failed 
 ■ Newer than reference 
 ■ NonMandatory

BKC Overall Summary:					
Result	Total Compared	Matched	UnMatched	Newer than reference	NonMandatory
UnMatched	27	0 (0.00%)	26 (96.30%)	1 (3.70%)	0 (0.00%)

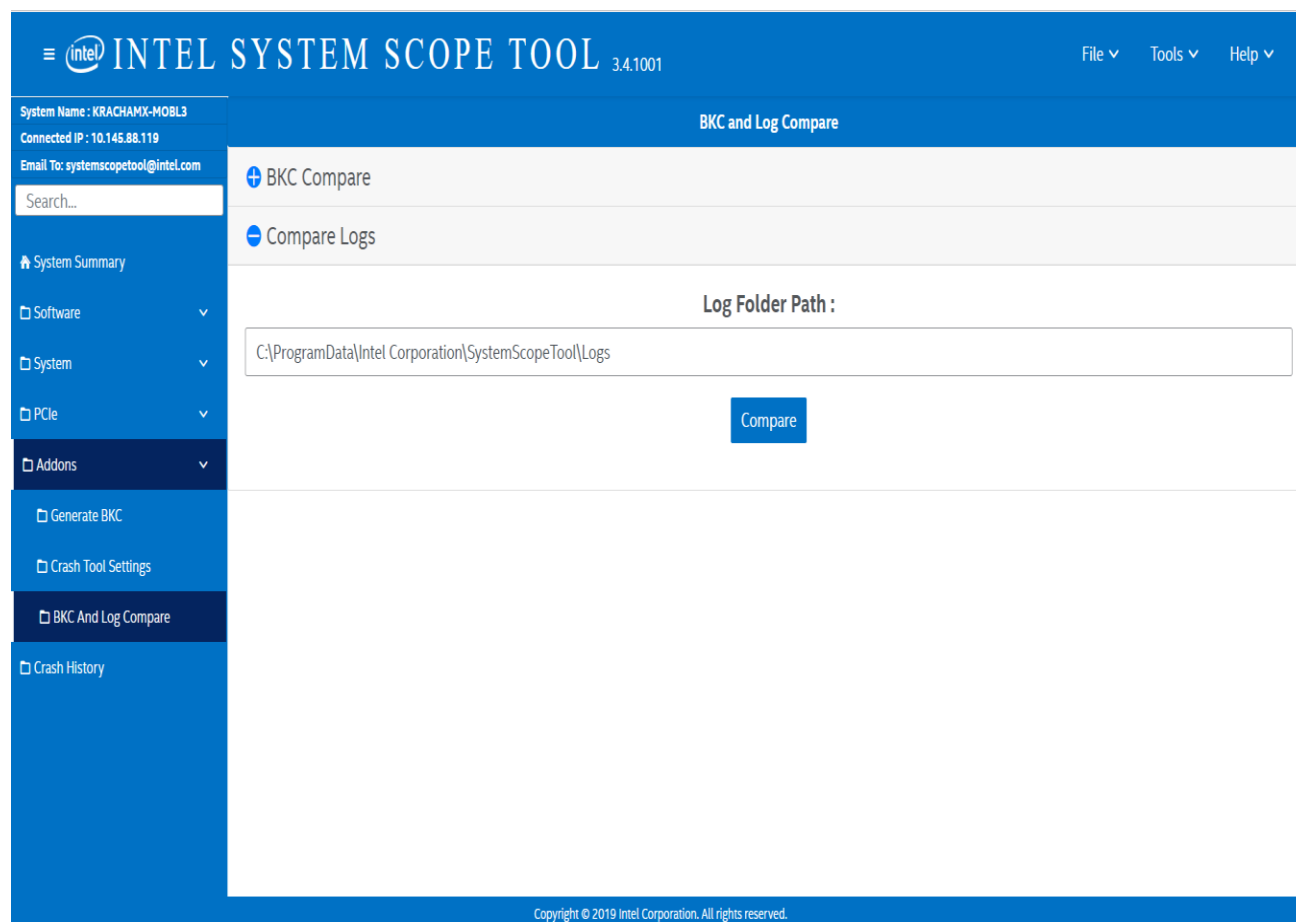
  

KEY	BkcMeta.xml	CurrentSystemConfig
<b>Drivers</b>		
ADSP	1.0.1069.0	Not Available
AudioCodecHDA	6.0.8710.3	Not Available
BT - Intel(R) Wireless Bluetooth(R)	21.20.0.4	20.60.0.4
CSME - Intel(R) Management Engine Interface	1910.13.0.1060	11.0.0.1172
Camera	42.17134.2.10165	Not Available
Chipset - Intel(R) Management Engine Interface	0.0.0.1	11.0.0.1172
DPTF	8.6.10401.9906	Not Available
FPS	3.0.17.9	Not Available
GFX	25.20.100.7007	Not Available
GNA	1.0.0.1381	Not Available
GNSS	3.18362.1.3	Not Available
HIDEventFilter	2.2.1.377	Not Available
ISH	3.1.0.4024	Not Available
ITR	10.0.18339.68	Not Available
LAN - Intel(R) Ethernet Connection (2) I219-LM	12.18.9.6	12.15.25.9
LPSS	30.100.1916.1	Not Available
RST - Intel(R) 100 Series C230 Chipset Family SATA AHCI Controller	17.5.2.1024	15.2.0.1020
SD	1.1.101.1032	Not Available
SGX	2.3.100.49813	Not Available
TBT	1.41.848.5	Not Available
WIFI - Intel(R) Dual Band Wireless-AC 8260	20.70.11.3	20.40.0.4
WWAN	15.0.33.567	Not Available

## 7.2 Compare Logs

Compare Logs Option will compare multiple Systemscope xml Logs. Input should be the folder Path which contains all the xml logs which are to be compared. Click on compare, on successful Comparison the report will be saved in XLS format.

Figure 7.2.0 Compare Logs

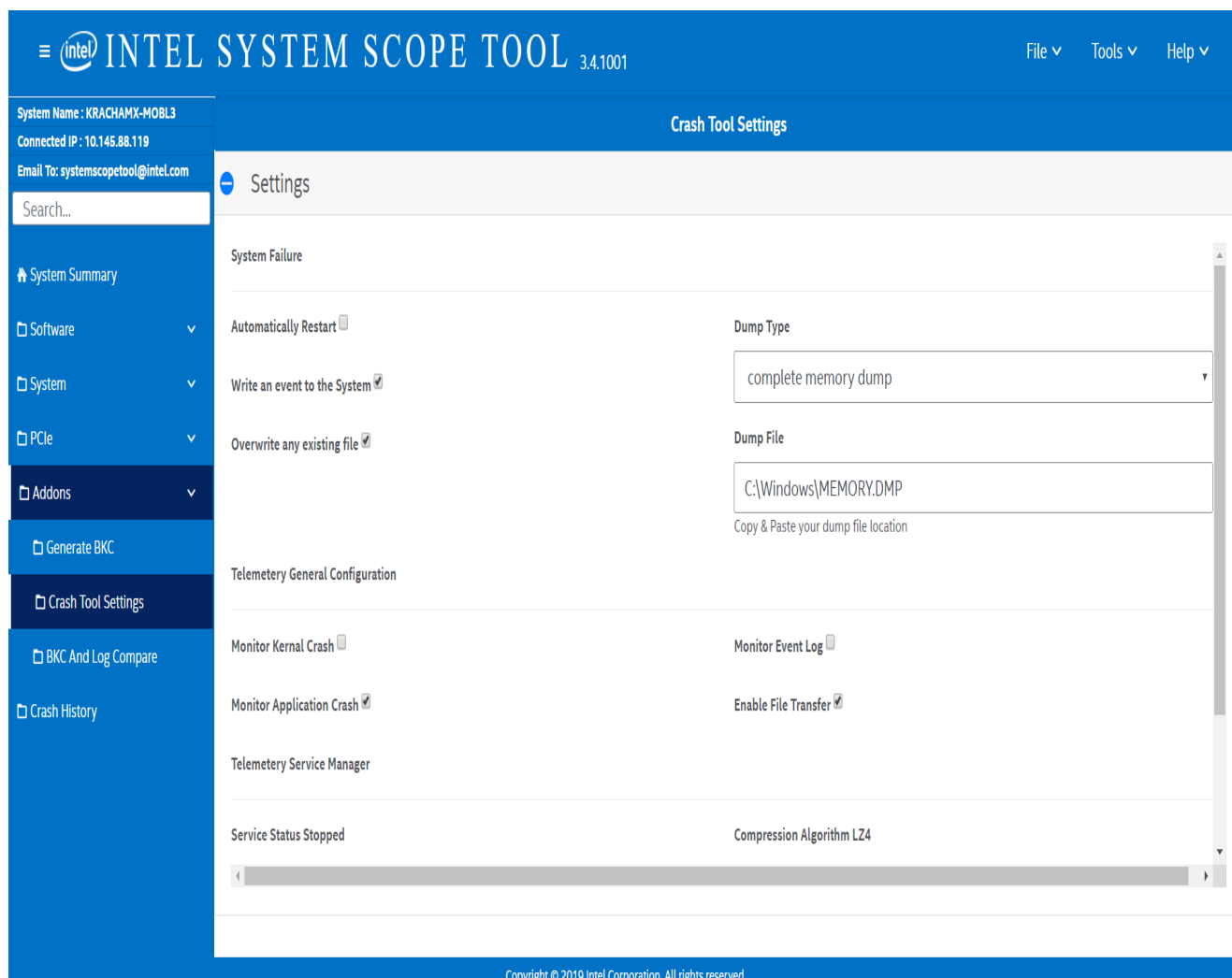




## 8. Crash Tool Settings

After select the crash tool settings from add-on, the following crash tool page is displayed.

Figure 8.0 Crash Tool Setting



**INTEL SYSTEM SCOPE TOOL** 3.4.1001 File ▾ Tools ▾ Help ▾

System Name : KRACHAMX-MOBL3  
Connected IP : 10.145.88.119  
Email To: systemscopetool@intel.com  
Search...

**Crash Tool Settings**

**Settings**

**System Failure**

Automatically Restart ☐

Write an event to the System ☒

Overwrite any existing file ☒

Dump Type  
complete memory dump

Dump File  
C:\Windows\MEMORY.DMP  
Copy & Paste your dump file location

**Telemetry General Configuration**

Monitor Kernel Crash ☐

Monitor Application Crash ☒

Monitor Event Log ☐

Enable File Transfer ☒

**Telemetry Service Manager**

Service Status Stopped

Compression Algorithm LZ4

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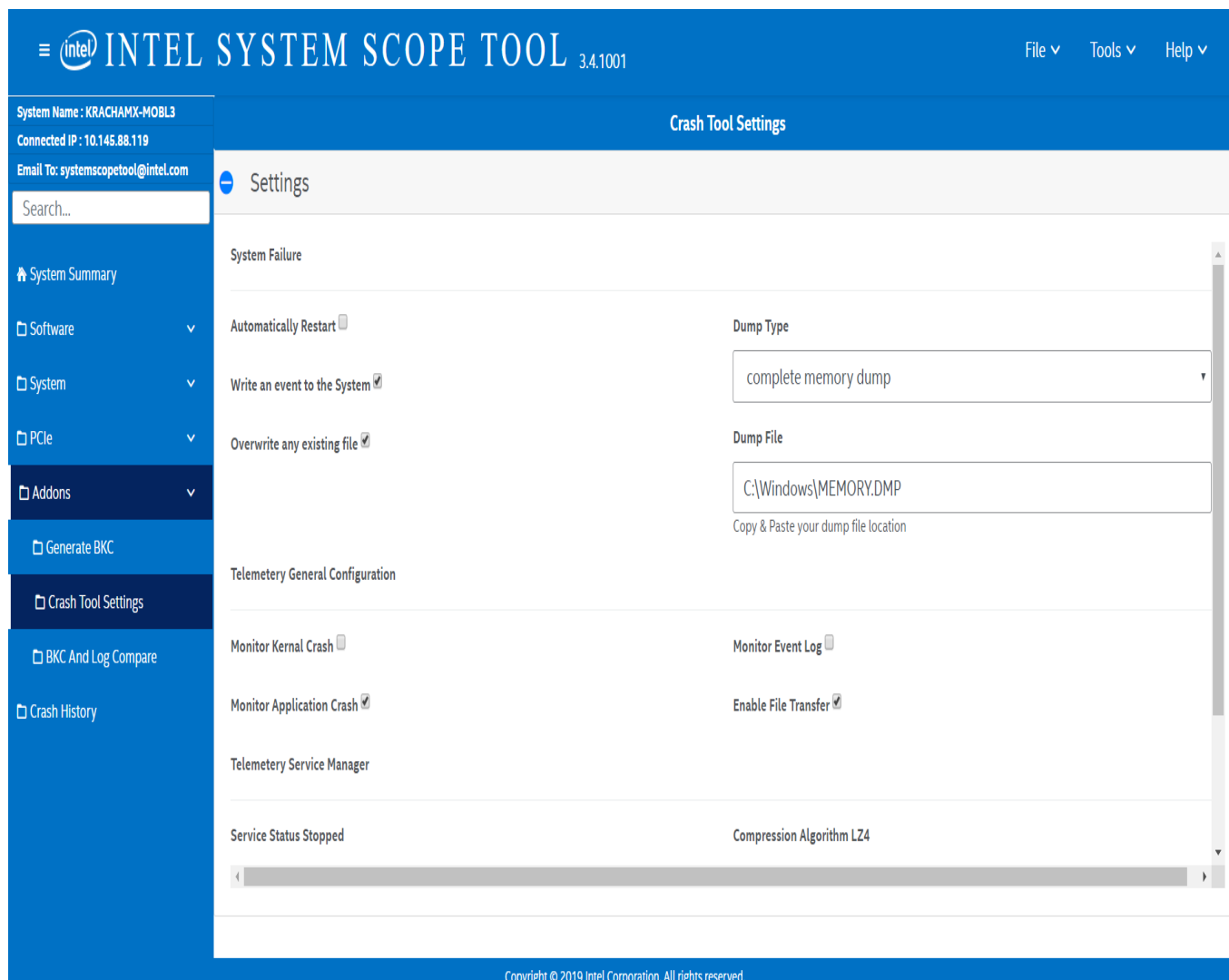


## Crash Tool Settings

### 8.1 Settings

Initially registry form filled with some default values, for saving that values just click on “Save” button. Settings will be saved successfully.

Figure 8.1 Settings



The screenshot displays the Intel System Scope Tool interface. The top navigation bar includes the Intel logo, the text "INTEL SYSTEM SCOPE TOOL 3.4.1001", and dropdown menus for "File", "Tools", and "Help". On the left, a sidebar lists various system components: System Name (KRACHAMX-MOBL3), Connected IP (10.145.88.119), Email To (systemscopetool@intel.com), a search bar, and a list of categories including System Summary, Software, System, PCIe, Addons, Generate BKC, Crash Tool Settings (highlighted), BKC And Log Compare, and Crash History. The main content area is titled "Crash Tool Settings" and contains a "Settings" section. This section is divided into two main areas: "System Failure" and "Telemetry General Configuration". Under "System Failure", there are three settings: "Automatically Restart" (disabled), "Write an event to the System" (checked), and "Overwrite any existing file" (checked). To the right of these are "Dump Type" (set to "complete memory dump") and "Dump File" (set to "C:\Windows\MEMORY.DMP"). Below "Dump File" is a note: "Copy & Paste your dump file location". Under "Telemetry General Configuration", there are three settings: "Monitor Kernel Crash" (disabled), "Monitor Application Crash" (checked), and "Monitor Event Log" (disabled). Below these are "Enable File Transfer" (checked) and "Telemetry Service Manager". At the bottom of the settings area, it shows "Service Status Stopped" and "Compression Algorithm LZ4". The footer of the interface states "Copyright © 2019 Intel Corporation. All rights reserved."

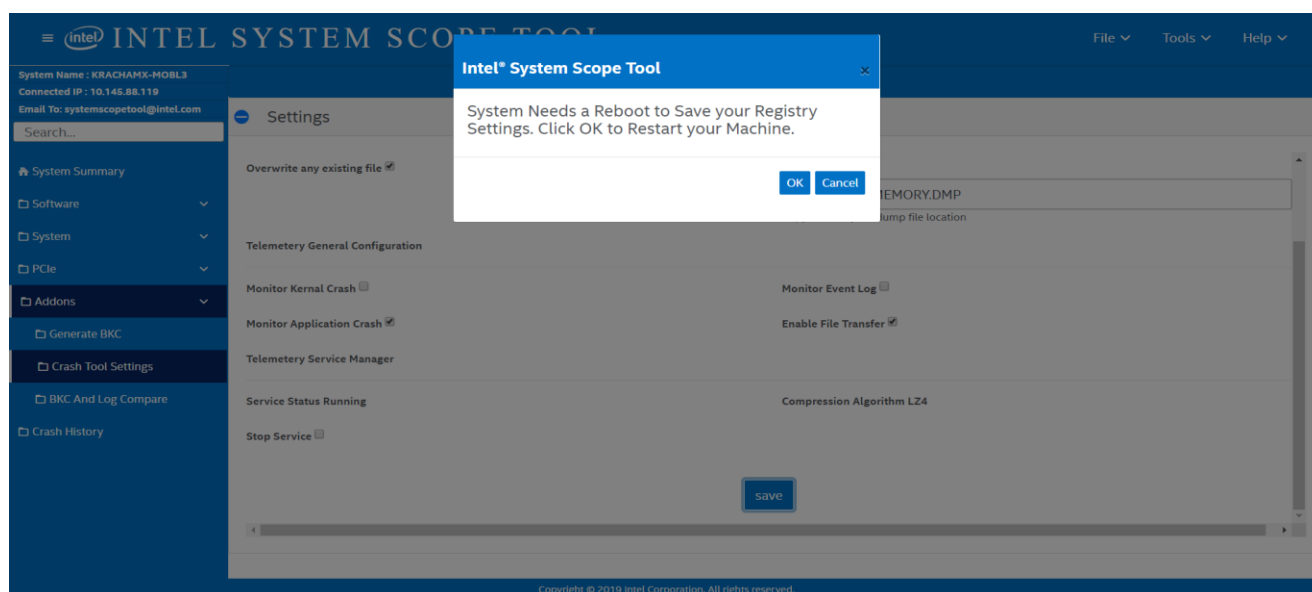
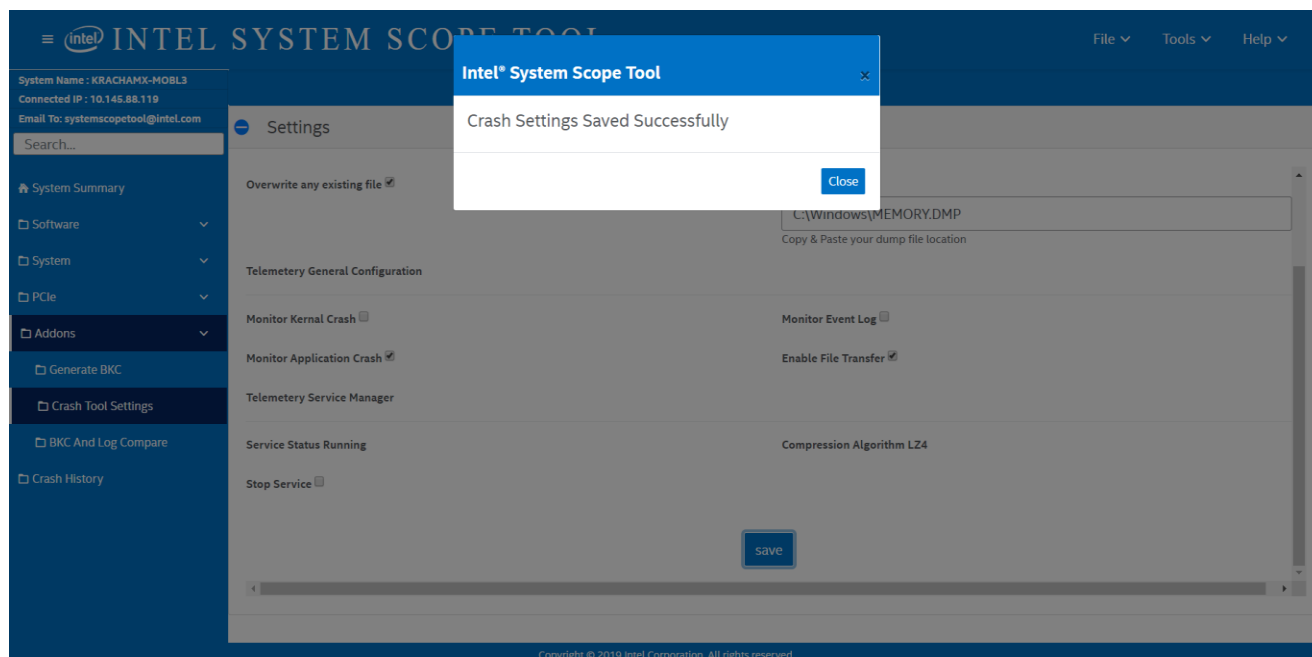
## Crash Tool Settings

If user wants to change the initial register values, then change the values and click on “save”.

System reboot popup is appear.

If click on “ok”, the system is reboot.

If click on “cancel”, the registry values are displayed.



## 9. System Summary

This feature of SystemScopeTool lists all the important fields of the Tool when the tool is Launched and also when the user clicks on the System Summary tab.

Fig 9.0 System Summary

intel

INTEL SYSTEM SCOPE TOOL 3.4.1001

File

Tools

Help

System Name : KRACHAMX-MOBL3

Connected IP : 10.145.88.119

Email To: systemscopetool@intel.com

Search...

System Summary

Software

System

PCIe

Addons

Crash History

Item

Value

AMT Status

Enabled

BIOS Version

R07ET86W (2.26 )

BKC Version

2019WW29.0.218

CPU Internal Stepping

R0

CPU Name

SKL

Display Resolution

Not Available

Hyper Threading

Not Supported

Hyper-V status in Firmware -System Information

No

Memory Size

180045766656 Bytes

Microcode version

0.0.0.c6

Name

Intel(R) Core(TM) i5-6440HQ CPU @ 2.60GHz

Number of GT cores

Unknown

Number of Logical Cores

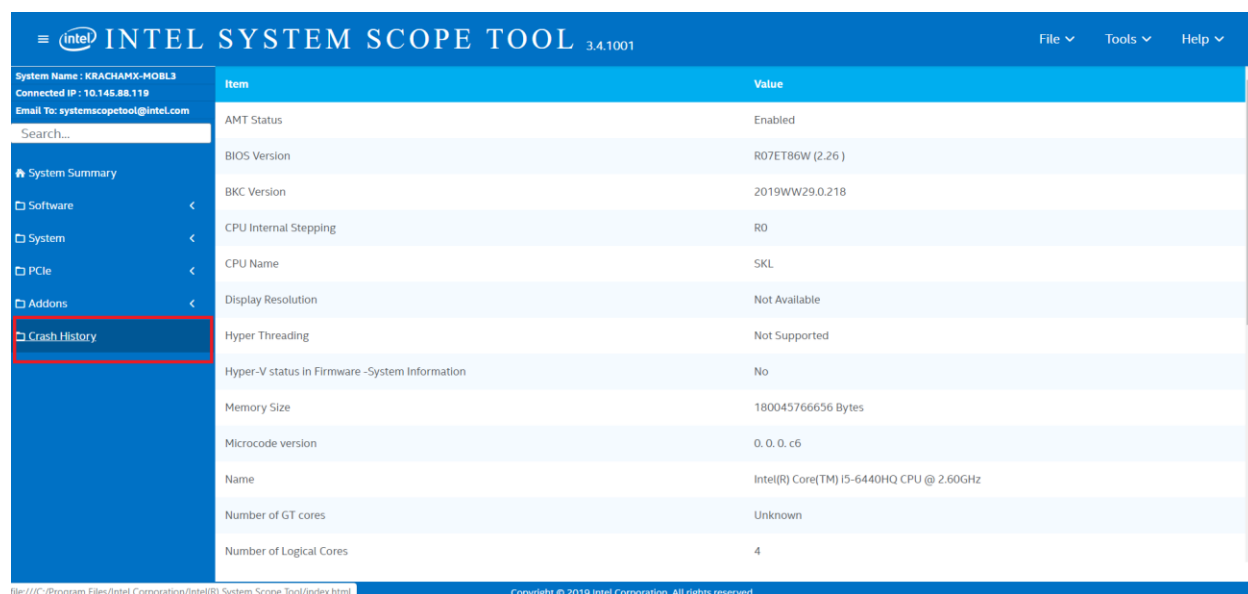
4

Copyright © 2019 Intel Corporation. All rights reserved.

## 10. Crash History

On Click of Crash History Tab, Intel (R) Crash Analysis Tool.html page will open. It will display all the crashes reported.

Figure 10.0 Crash History



**INTEL SYSTEM SCOPE TOOL** 3.4.1001

File ▾ Tools ▾ Help ▾

System Name : KRACHAMX-MOBL3  
Connected IP : 10.145.88.119  
Email To: systemscope@intel.com

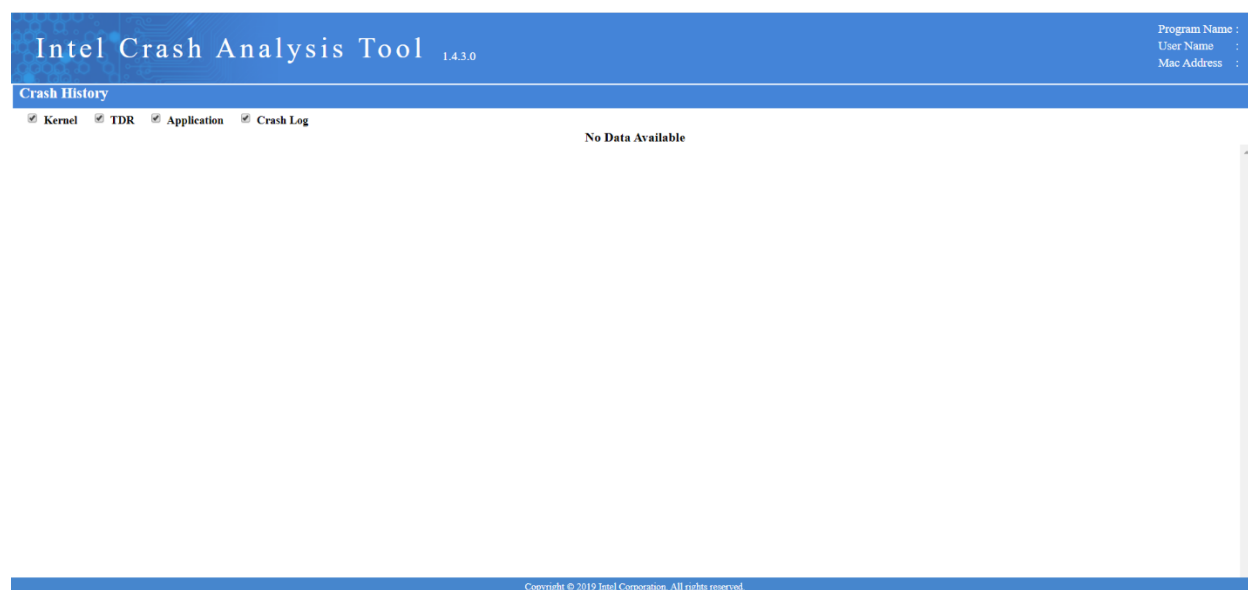
Search...

- System Summary
- Software
- System
- PCIe
- Addons
- Crash History**

Item	Value
AMT Status	Enabled
BIOS Version	R07ET86W (2.26 )
BKC Version	2019WW29.0.218
CPU Internal Stepping	R0
CPU Name	SKL
Display Resolution	Not Available
Hyper Threading	Not Supported
Hyper-V status in Firmware -System Information	No
Memory Size	180045766656 Bytes
Microcode version	0.0.0.c6
Name	Intel(R) Core(TM) i5-6440HQ CPU @ 2.60GHz
Number of GT cores	Unknown
Number of Logical Cores	4

File:///C:/Program Files/Intel Corporation/Intel(R) System Scope Tool/index.html Copyright © 2019 Intel Corporation. All rights reserved.

Figure 10.1 Crash tool HTML page



**Intel Crash Analysis Tool** 1.4.3.0

Program Name :  
User Name :  
Mac Address :

Crash History

☒ Kernel ☒ TDR ☒ Application ☒ Crash Log

No Data Available

Copyright © 2019 Intel Corporation. All rights reserved.

# 11. Workspace

SST provides an option to save all the settings in a workspace file and transfer this file to other Machines and even across operating systems.

Once all the settings are finalized, go to File-> save workspace and save the .xml file.

Refer Figure 19.2 and 19.3 to find a way to save and load the workspace.

When you want to transfer these settings to another machine, copy this workspace file to the new Machine and load the workspace file using File-> Load workspace.

Figure 11.0 Workspace

The screenshot shows the Intel System Scope Tool (SST) interface. The top bar displays the Intel logo, the text 'INTEL SYSTEM SCOPE TOOL', and the version '3.2.1003'. On the right, there are tabs for 'File', 'Tools', and 'Help'. The 'File' menu is open, showing options: 'Save Workspace', 'Load Workspace', 'Save', 'Savelog in All Formats', 'BKC Compare', 'Save FPDT Log', and 'Close'. The 'Save Workspace' and 'Load Workspace' options are highlighted with a red box. The main area displays a table of system information for 'System Name: KRACHAMX-MOBL3'. The table has columns 'Item' and 'Value'. The left sidebar shows a navigation menu with 'System Summary' selected, and other options like 'Software', 'System', 'PCIe', 'Addons', and 'Crash History'.

Item	Value
AMT Status	Enabled
BIOS Version	R07ET86W (2.26)
BKC Version	2018WW29.3.4
CPU Internal Stepping	R0
CPU Name	SKL
Display Resolution	Not Available
Hyper Threading	Not Supported
Hyper-V status in Firmware -System Information	No
Memory Size	180045766656 Bytes
Microcode version	0.0.0.c6
Name	Intel(R) Core(TM) i5-6440HQ CPU @ 2.60GHz
Number of GT cores	GT2
Number of Logical Cores	4
Number of Physical cores	4
OS Architecture	64-bit
OS Name	Microsoft Windows 10 Enterprise
Ox Version	10.0.16299

File:///C:/Users/krachamx/Perforce/krachamx\_SST3\_OneCore\_2017/Products/SST3/UI/FactoryOS/Intel(R) System Scope Tool.html# ©2018 Intel Corporation. All rights reserved.

## Workspace

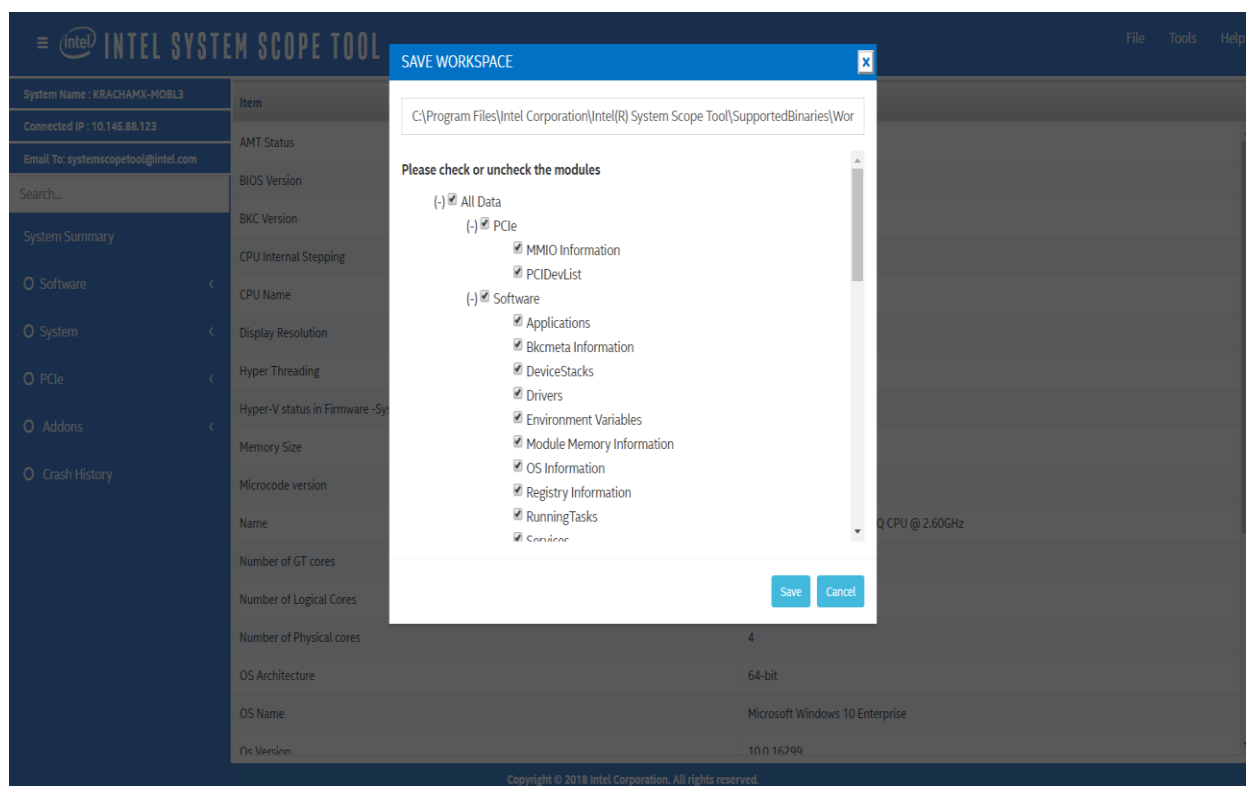
### 11.1 Save workspace

The user has an option to save the following options in to a workspace file.

1. **General:** Under Tools->settings->General tab user can save enable auto refresh, polling Period, participate SST3 improvement and FPDT settings.
2. **Logging:** Under Tools->settings->Logging tab user can save default path for log file, Format option (html, xml, csv and both xml and html) and module selection.

After clicking save workspace, below dialog box will appear. You can save the work space at Default location or else you can enter a location of choice.

Figure 11.1 save Workspace



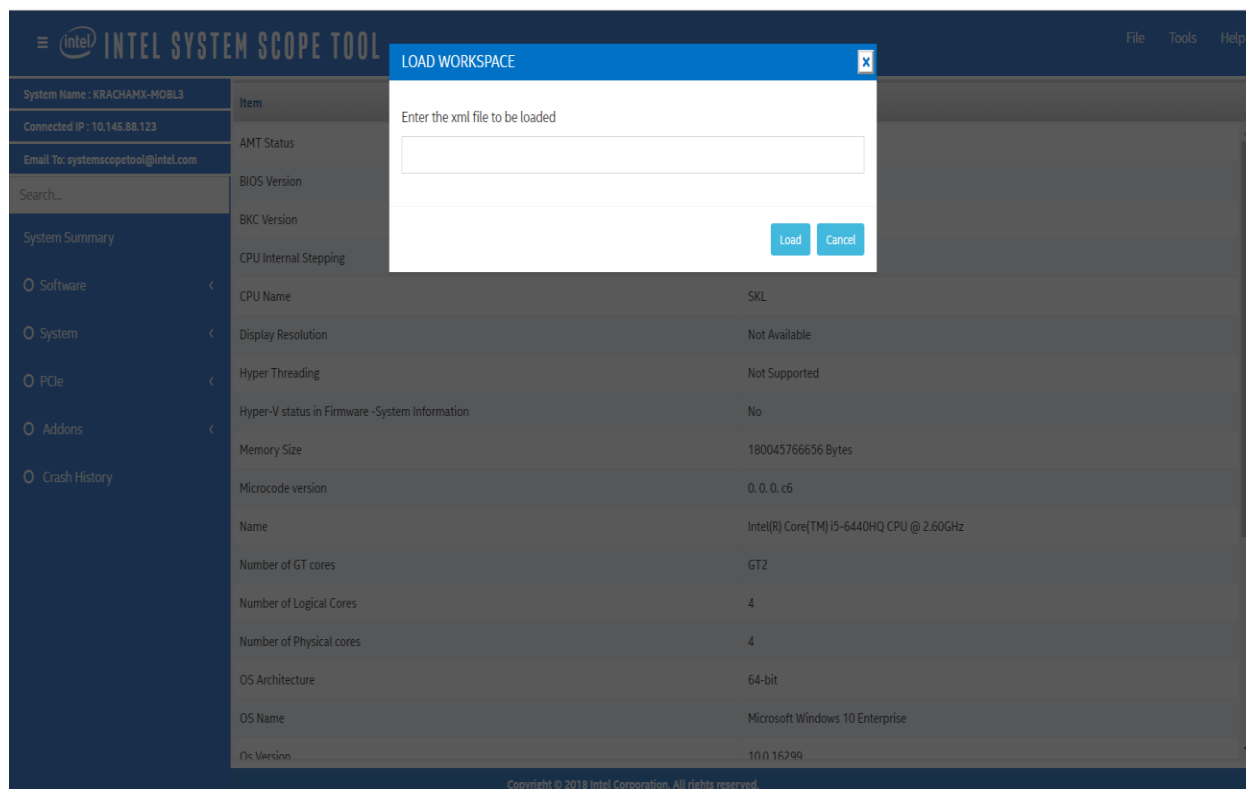
## Workspace

### 11.2 Load Workspace

Clicking on the load workspace option in Figure 19.0 will open the below dialog box.

Choose the required workspace file and click on “submit” button for loading the workspace.

Figure 11.3 Load Workspace



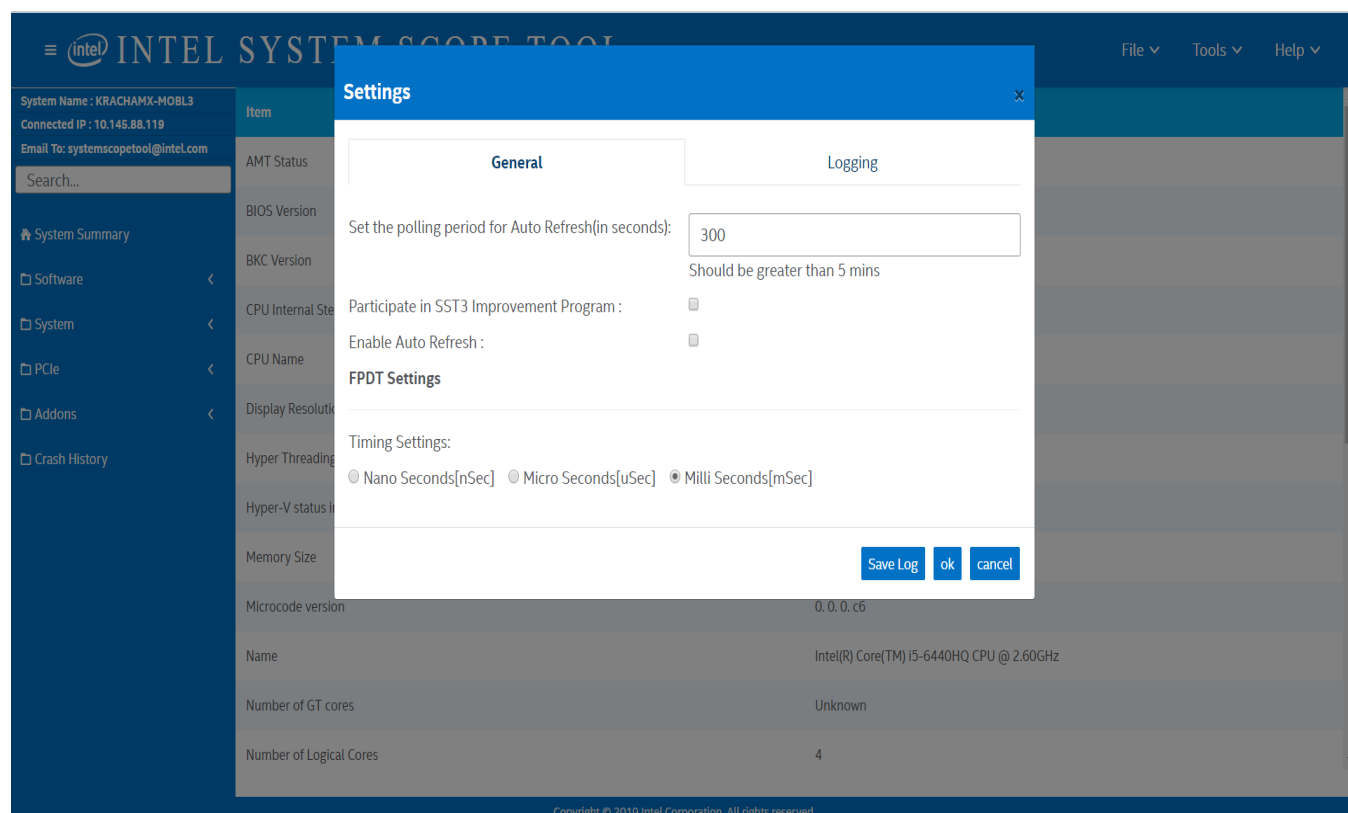
## 12. Settings

Click on “Settings” menu item to view/modify general and logging settings under Tools menu.

### 12.1 General

This window allows the user after submitting FPDT settings, then for any next module if we Opened, it should refreshes whole tab.

Figure 12.0 General





### 12.1.1.1 Participate in SST3 improvement program

System Scope Tool has a product improvement program, you can participate by accepting the License agreement of Intel® participate improvement program after installation or after launching UI enable it from Setting -> General tab. Please refer to Figure 12.0 for the options screen shot.

### 12.1.1.2 Auto refresh

If user enter polling period value (The value greater than 5 minutes and should be enter in Milliseconds. The default is 5 minutes) and check the “Enable Auto Refresh” option, then Select any FPDT settings and click on “Ok” for any next module if we opened, it should refresh Whole tab after complete the polling period time. . Please refer to Figure 12.0 for the options Screen shot.

**Note:** “Enable Auto Refresh” option should be selected in order to save Polling Period with custom time.

## Settings

### 12.1.3 Save Log

This window allow the user to choose the format of log file.

It also provides an option to view/modify the logging features from here by clicking on the “Log Settings” button. It redirects to “Settings” window.

Figure 12.1.3 Save Log popup

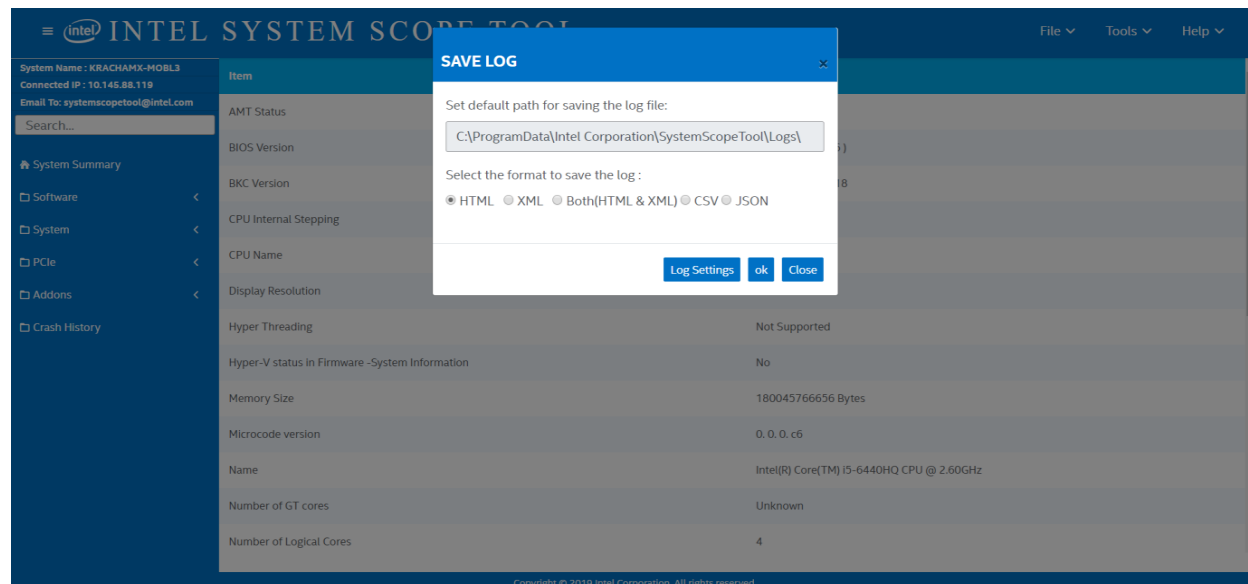
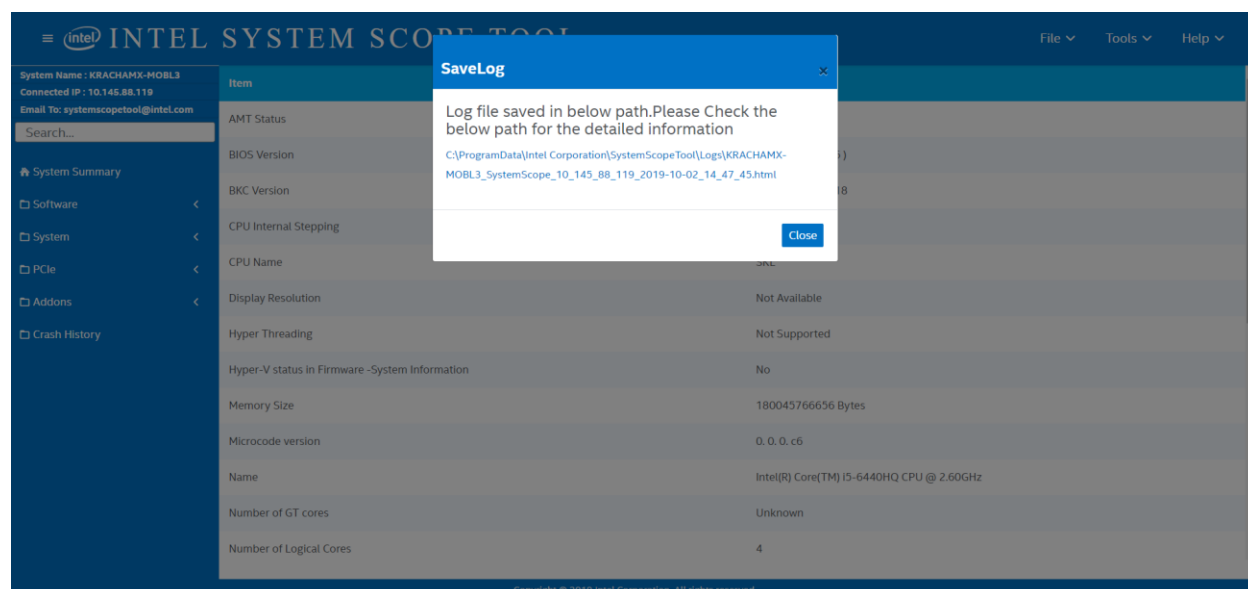


Figure 12.1.4 save Log Result

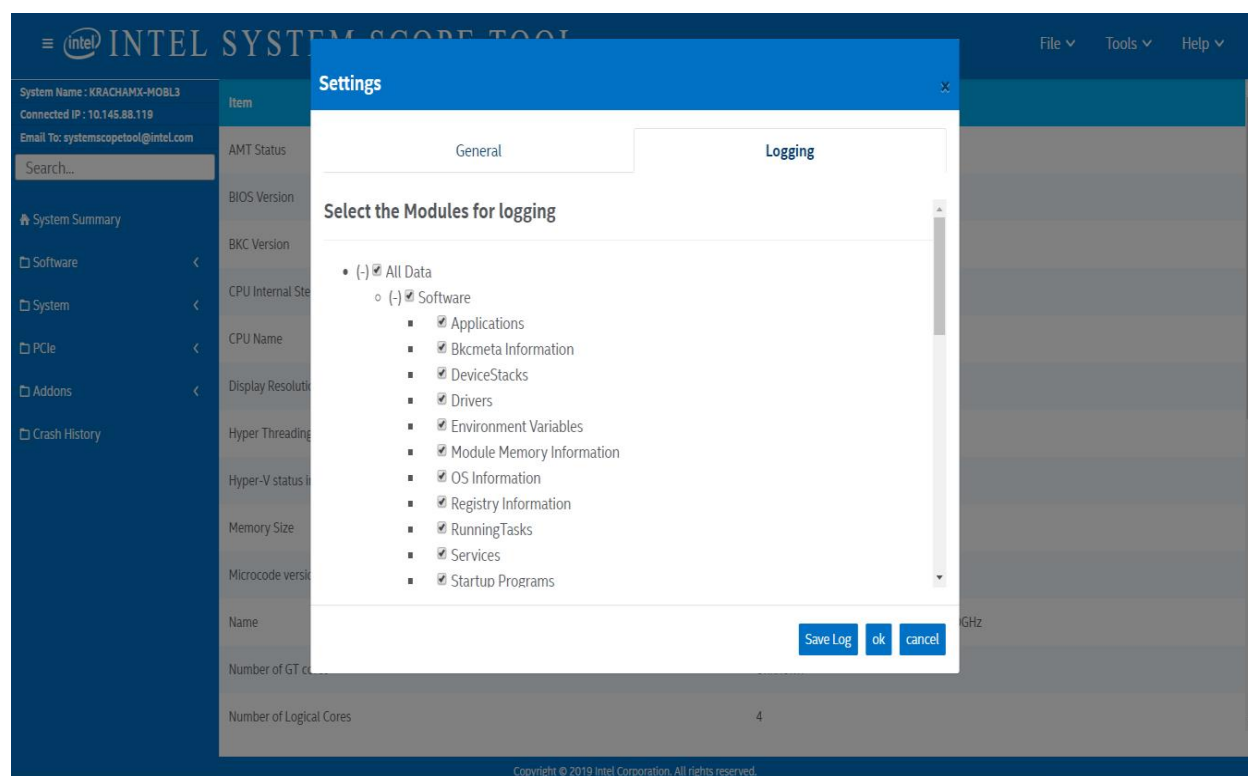


## Settings

### 12.2 Logging

This window allows the user to choose the features to be logged. You can save the log file from Here by clicking on the “Save Log” button. It redirects to save log window.

Figure 12.2 Logging



This window allow the user to choose the format of log file. It provides an option to select the Folder where the log file has to be saved.

It also provides an option to view/modify the logging features from here by clicking on the “Log Settings” button. It redirects to “Settings” window.

## 13. Command Line Operations

Saving the log from command prompt.

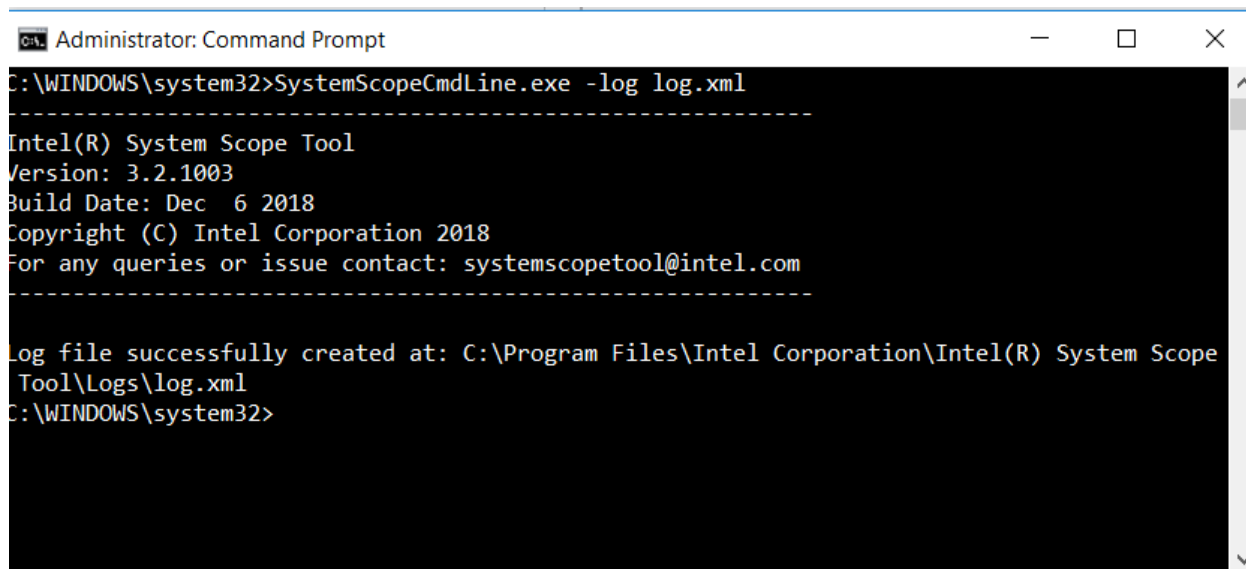
**Syntax:** SystemScopeCmdLine.exe -log <Log file name.format> [-options].

Here,

-log	: Log command
Log filename	: file path
Format	: xml/html/json/csv
Options	: Optional parameter, if it's not passing, it generates entire log Otherwise specified module(s)/plugin(s) combination of modules And plugins.

**Note:** If the user doesn't give File path, log file will save in tool install location.

Figure 13.1 Saving the System Scope entire log in xml format

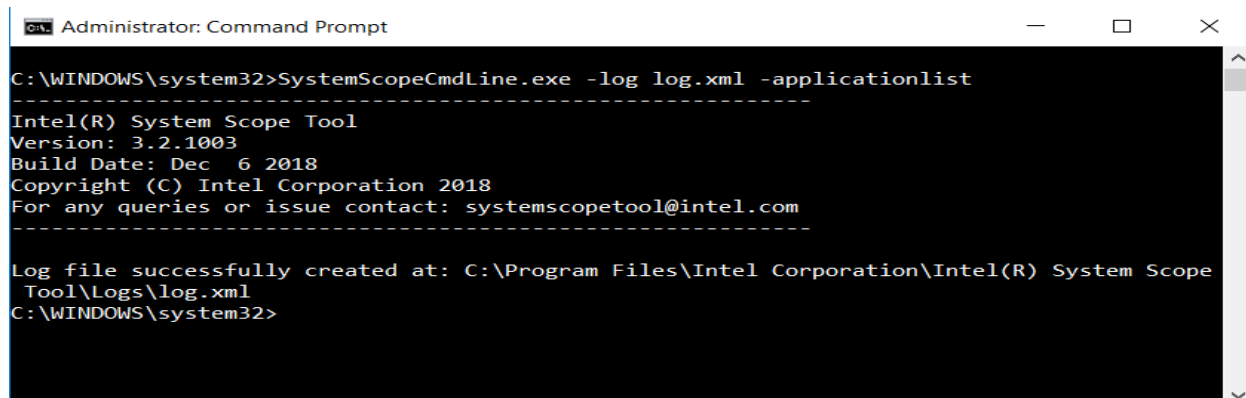


```

Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
  
```

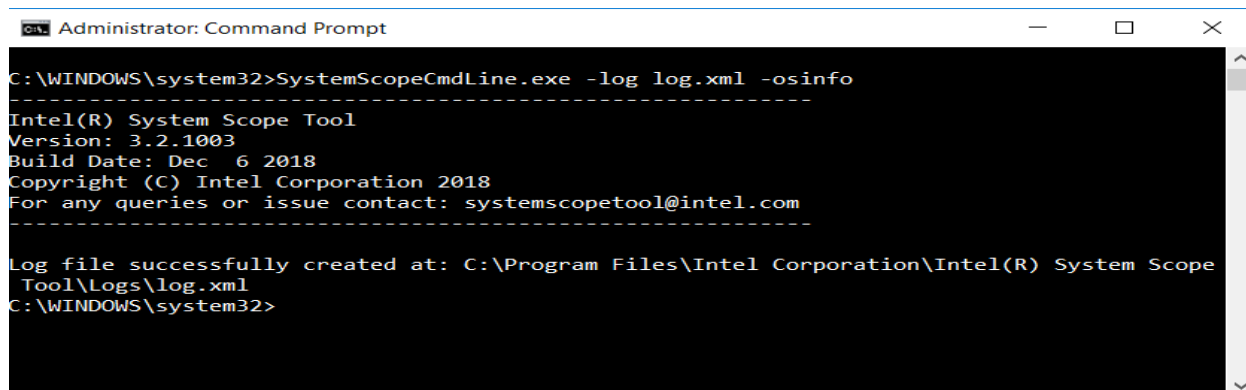
## Command Line Operations

Figure 13.2 Saving the Applications List



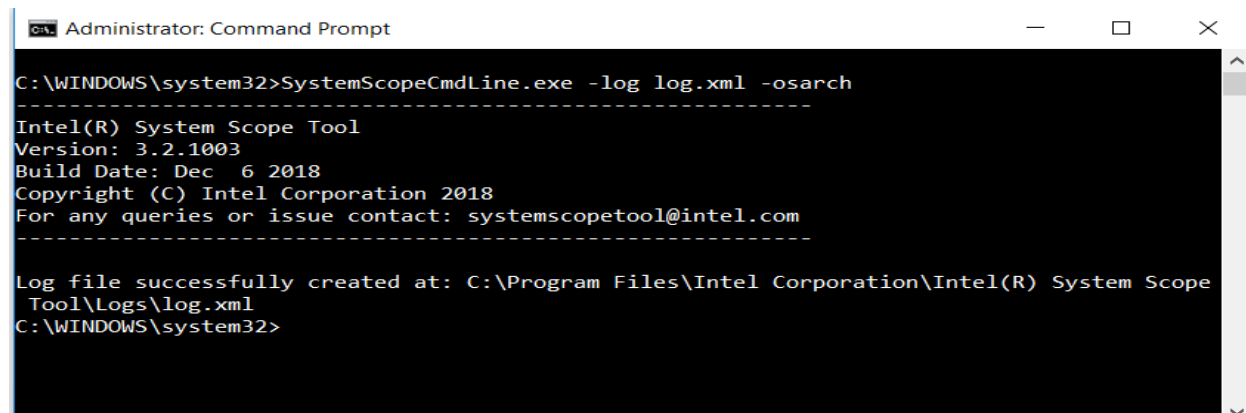
```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -applicationlist
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

Figure 13.3 Saving the Operating Systems Info



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -osinfo
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

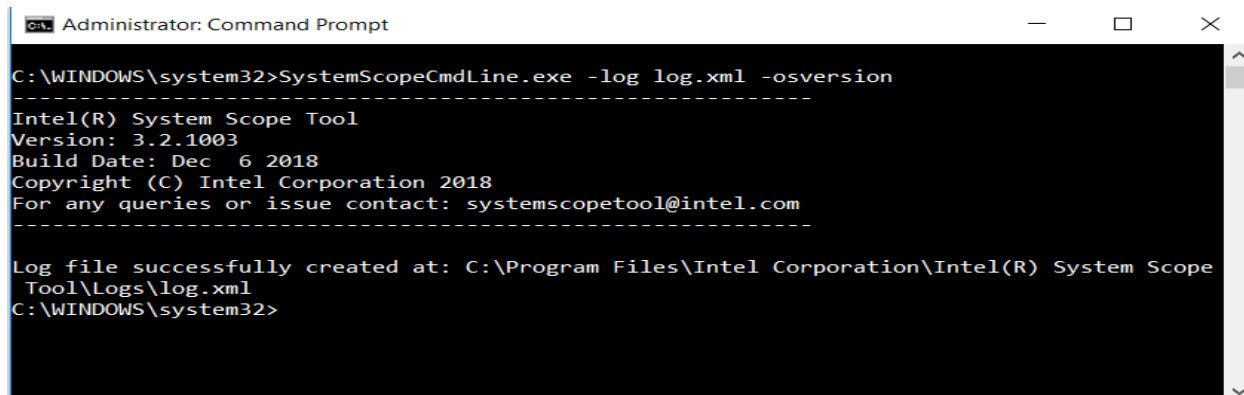
Figure 13.4 Saving the Operating System Architecture



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -osarch
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

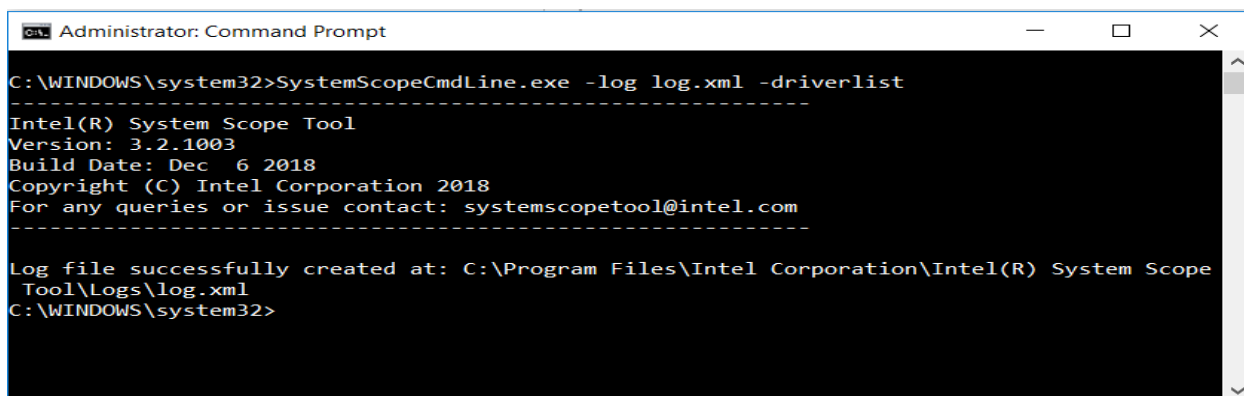
## Command Line Operations

Figure 13.5 Saving the Operating System Version



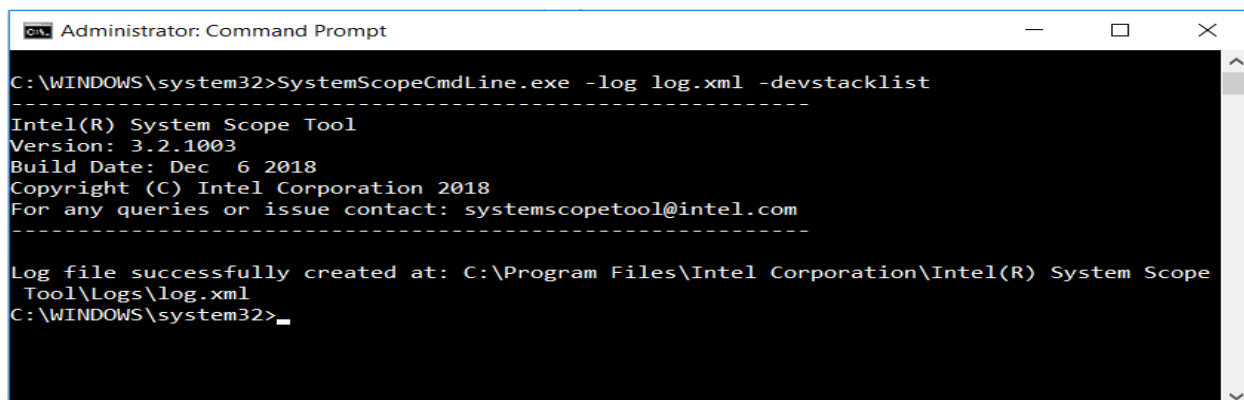
```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -osversion
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

Figure 13.6 Saving the Driver List



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -driverlist
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

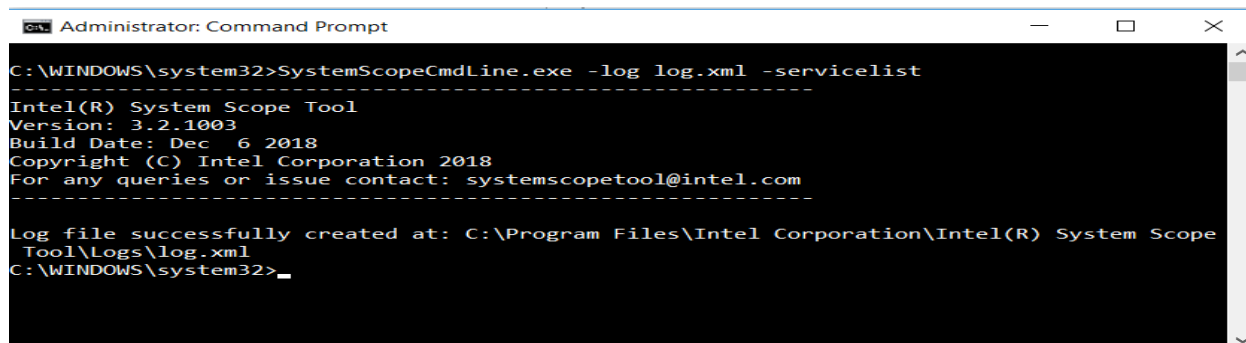
Figure 13.7 Saving the Device Stack List



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -devstacklist
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

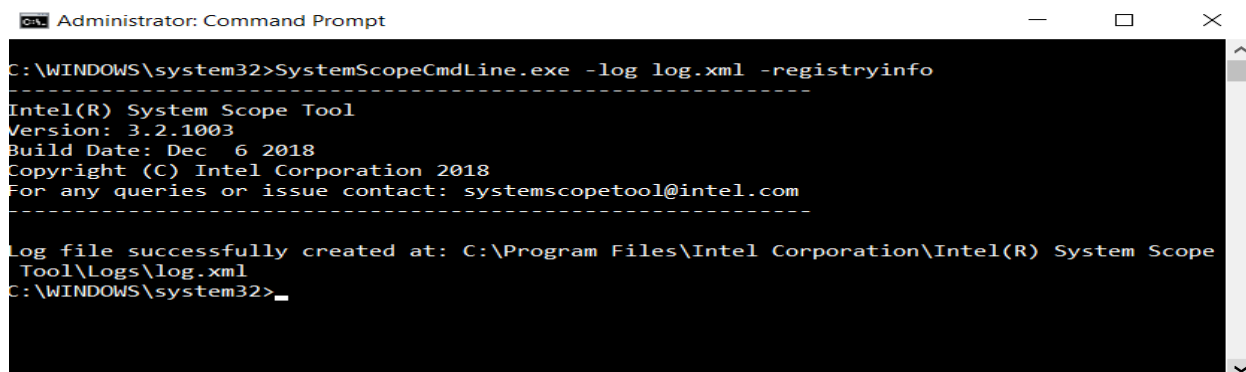
## Command Line Operations

Figure 13.8 Saving the Services List



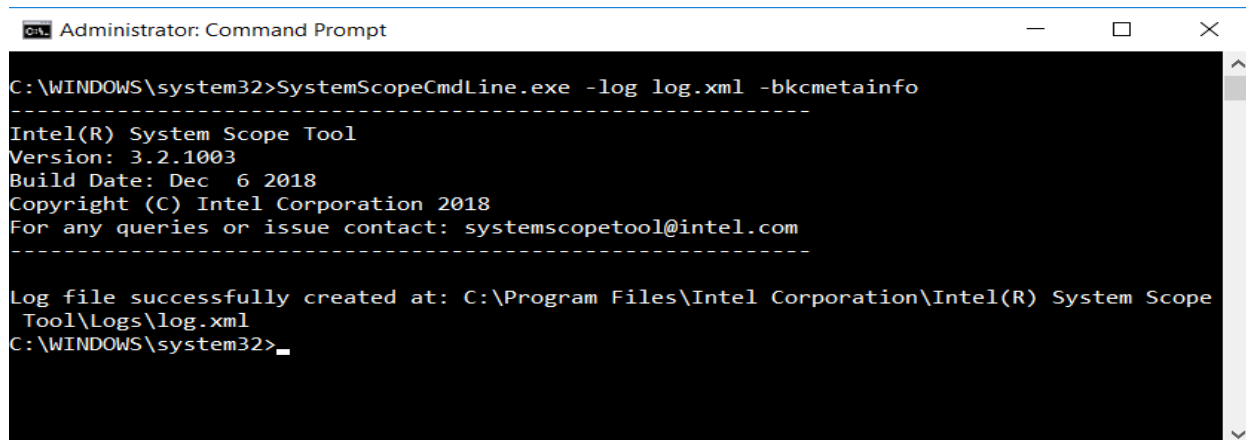
```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -servicelist
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

Figure 13.9 Saving the Registry Info



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -registryinfo
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

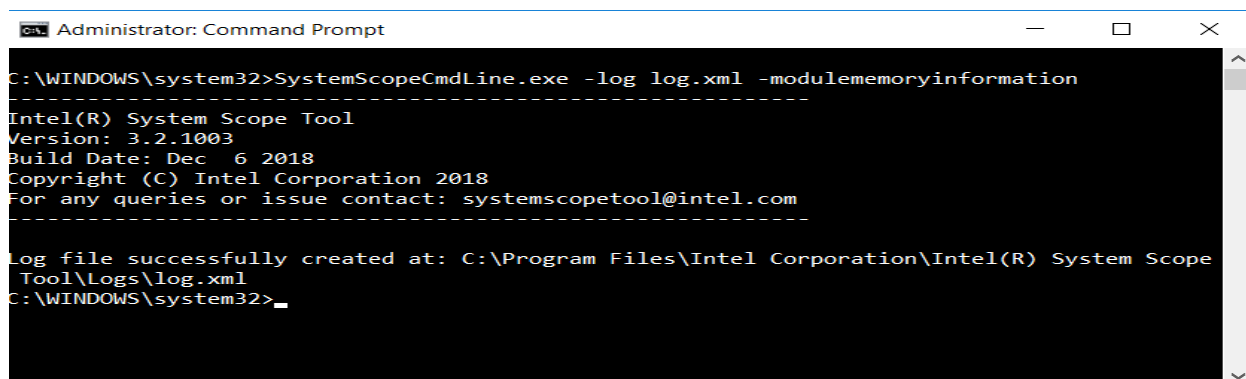
Figure 13.10 Saving the BKC Meta Information



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -bkcmetainfo
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

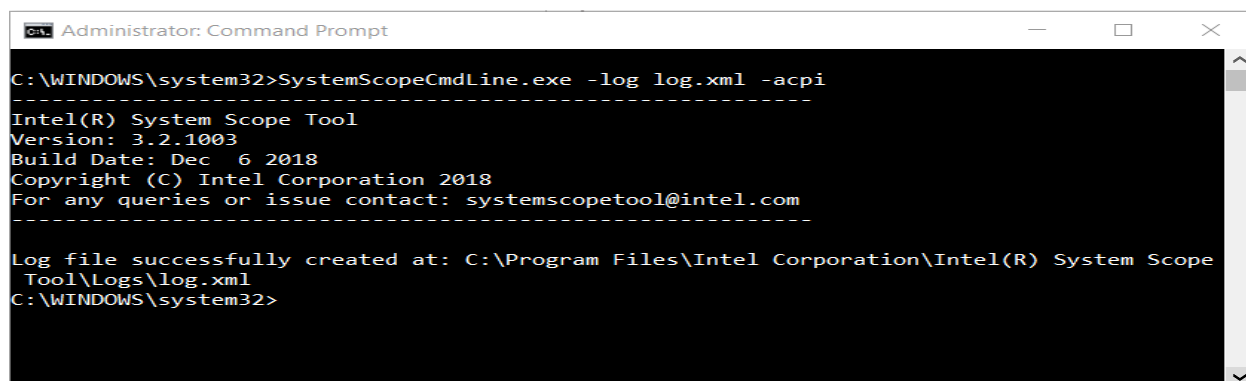
## Command Line Operations

Figure 13.11 Saving the Module Memory Information



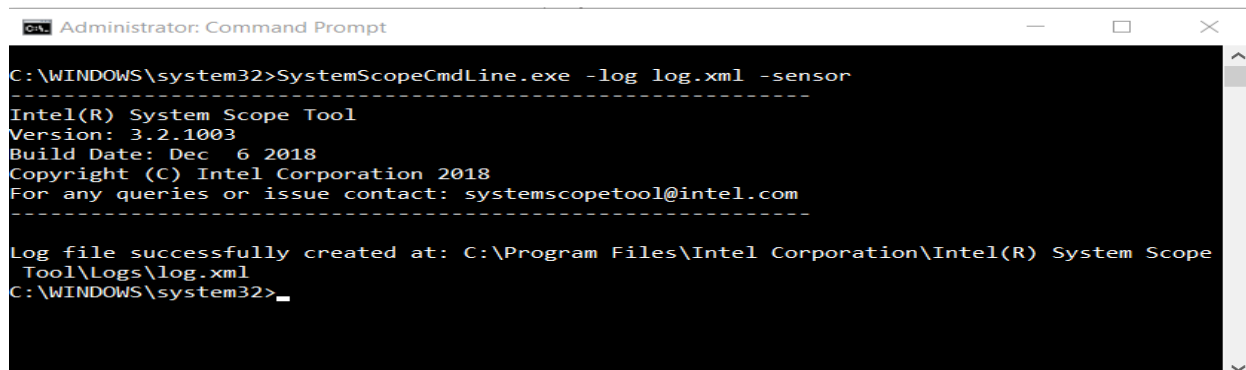
```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -modulememoryinformation
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

Figure 13.12 Saving the ACPI Information



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -acpi
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

Figure 13.13 saving the sensor Information

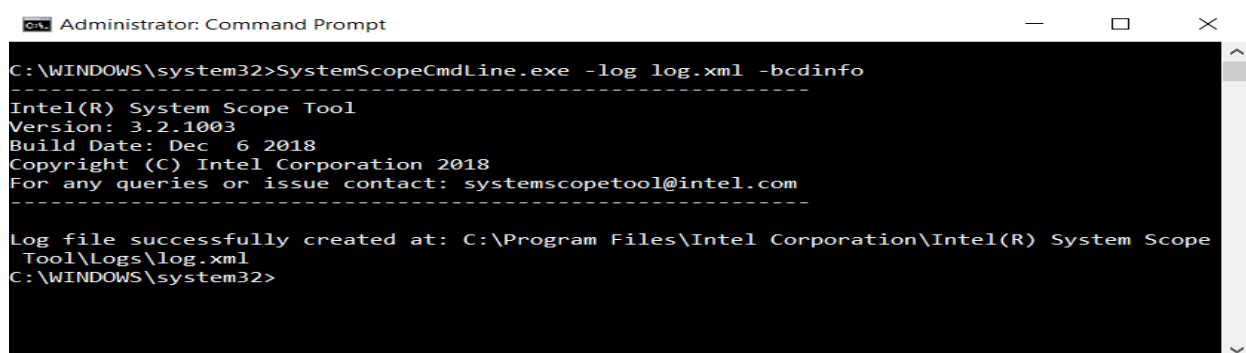


```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -sensor
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```



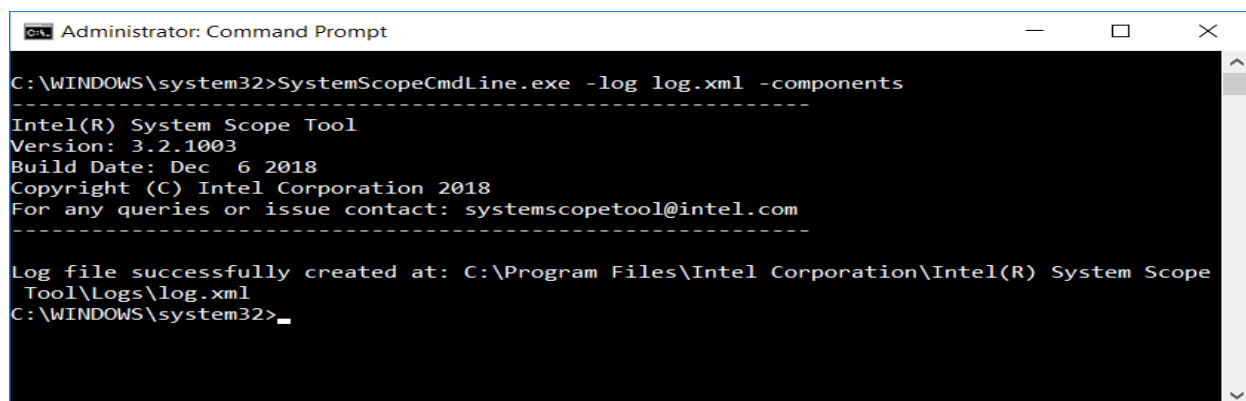
## Command Line Operations

Figure 13.14 saving the BCD Info



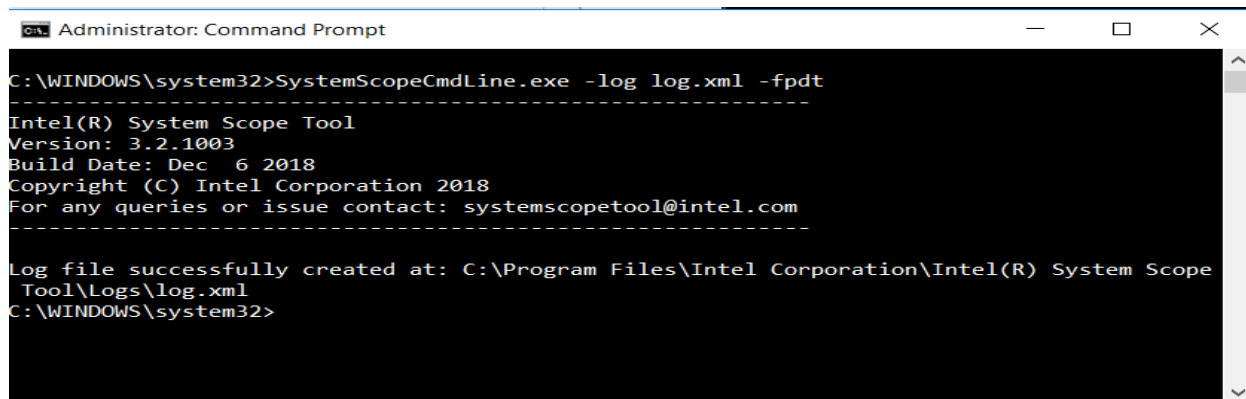
```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -bcdinfo
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

Figure 13.15 Saving the Components Information



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -components
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

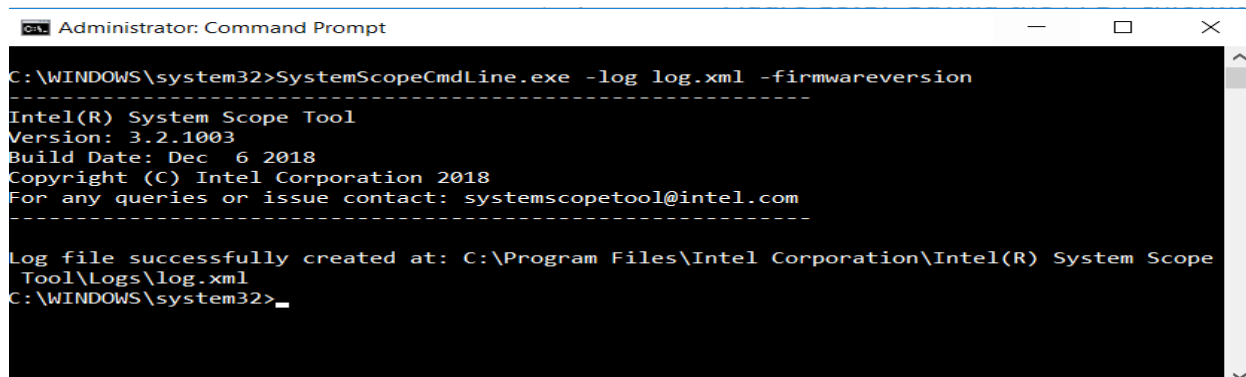
Figure 13.16 Saving the FPDT Information



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -fpdt
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

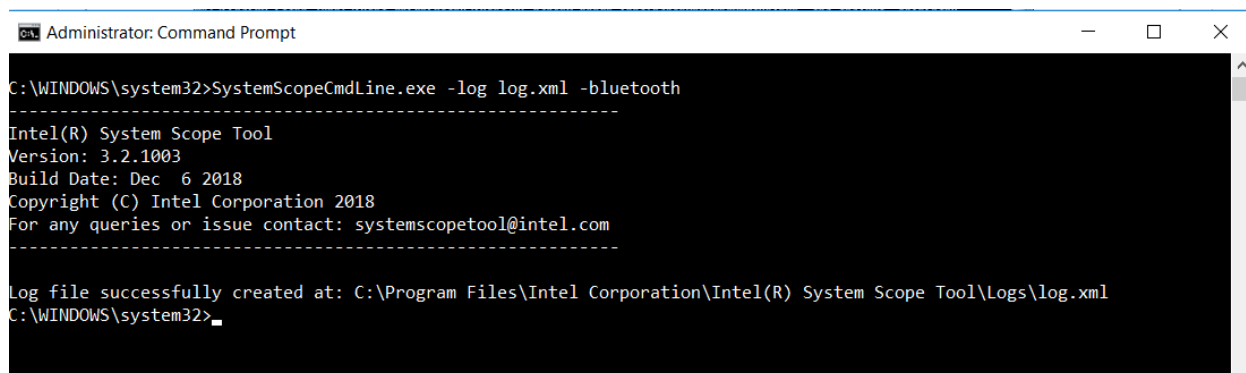
## Command Line Operations

Figure 13.17 Saving the Firmware Information



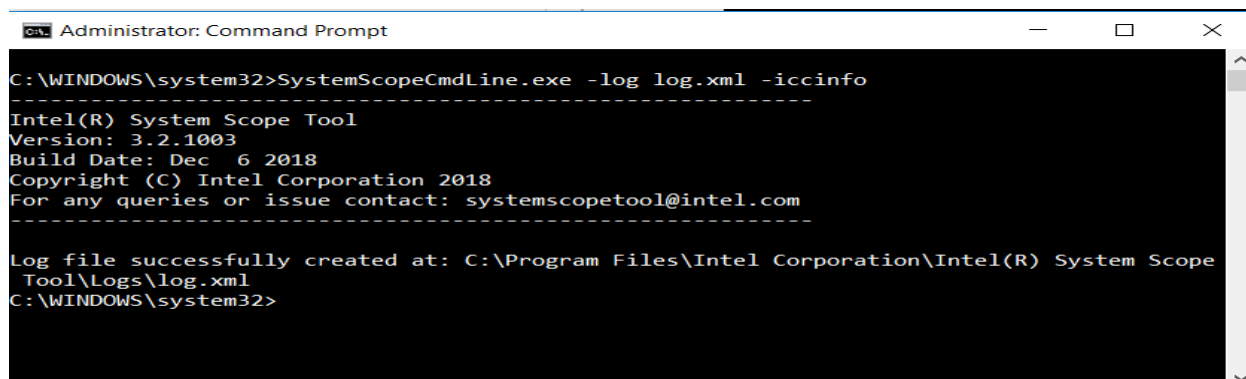
```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -firmwareversion
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

Figure 13.18 Saving the Bluetooth Information



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -bluetooth
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\Logs\log.xml
C:\WINDOWS\system32>
```

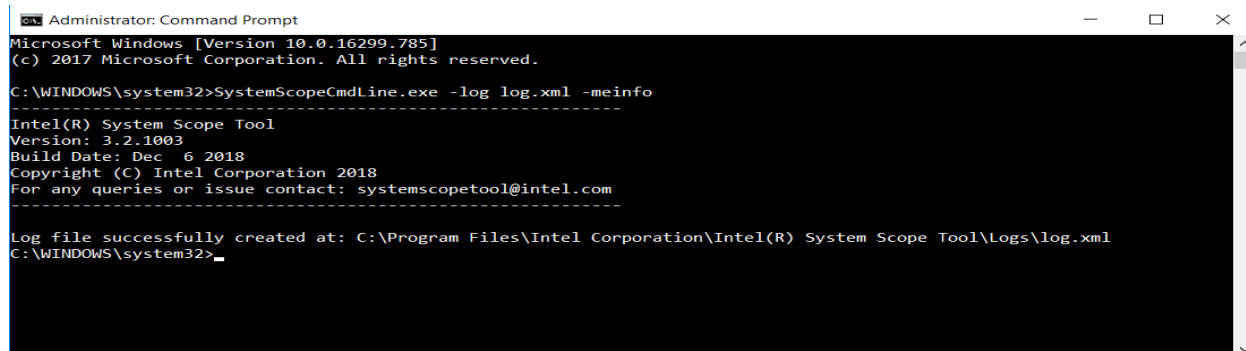
Figure 13.19 Saving the ICC Information



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -iccinfo
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

## Command Line Operations

Figure 13.20 Saving the ME Info

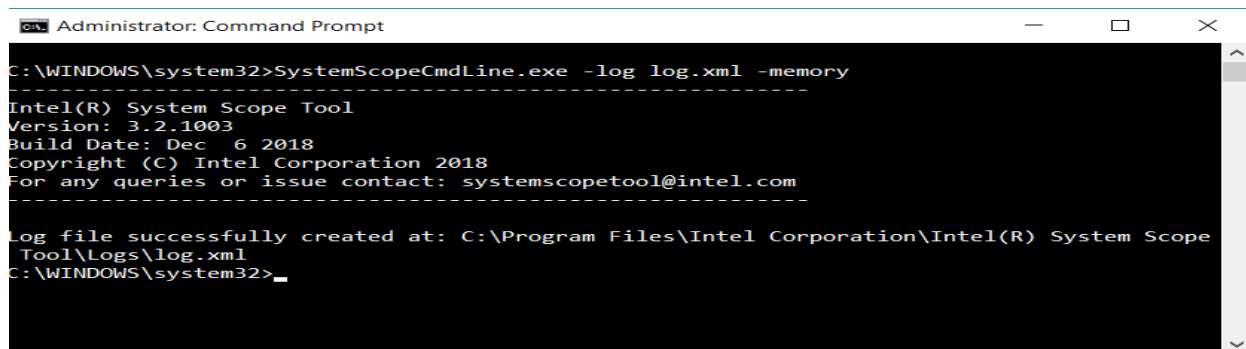


```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.16299.785]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -meinfo
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----

Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\Logs\log.xml
C:\WINDOWS\system32>
```

Figure 13.21 Saving the Memory Info

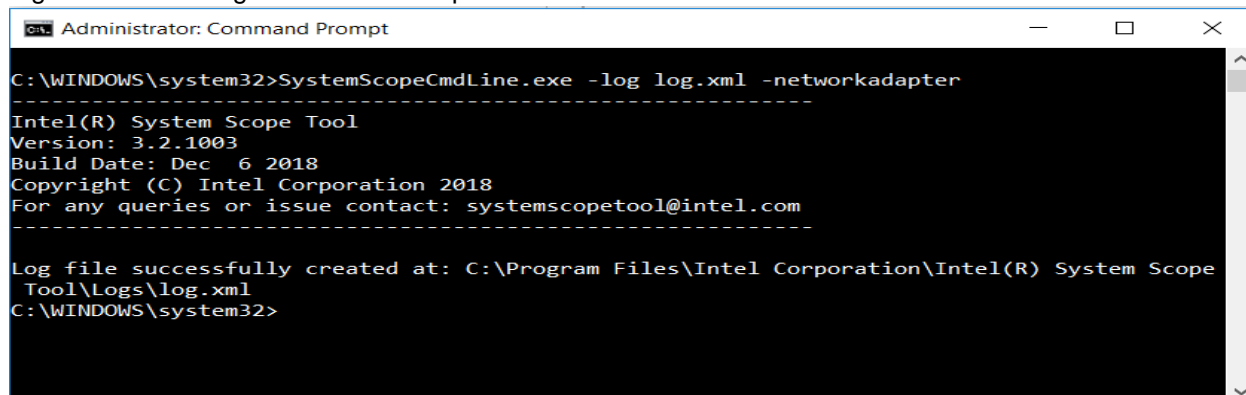


```
Administrator: Command Prompt

C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -memory
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----

Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\Logs\log.xml
C:\WINDOWS\system32>
```

Figure 13.22 Saving the Network Adaptor Information



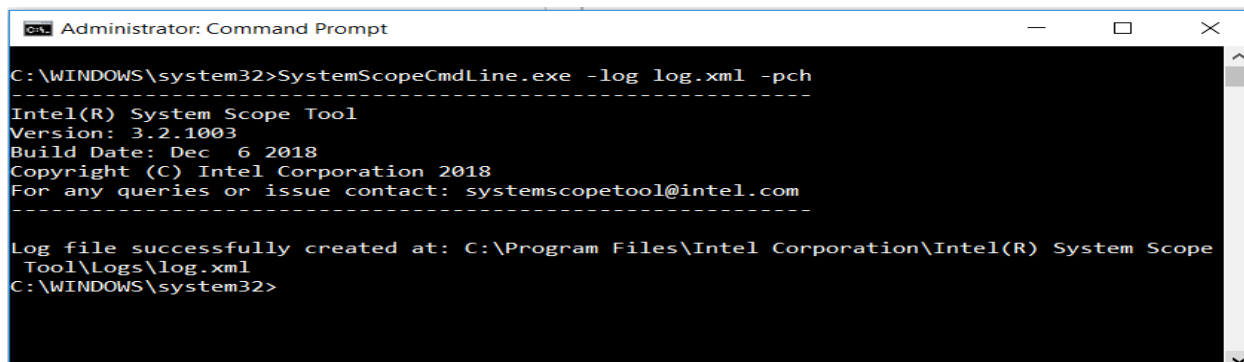
```
Administrator: Command Prompt

C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -networkadapter
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----

Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\Logs\log.xml
C:\WINDOWS\system32>
```

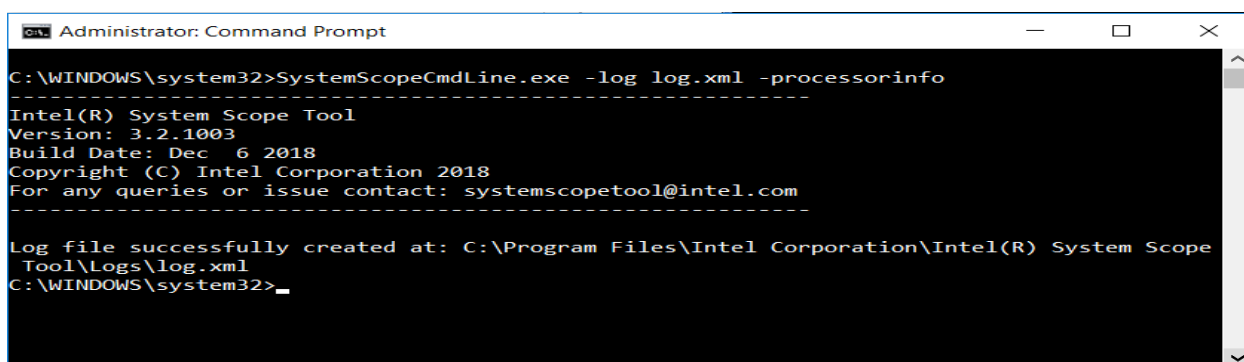
## Command Line Operations

Figure 13.23 Saving the PCH Information



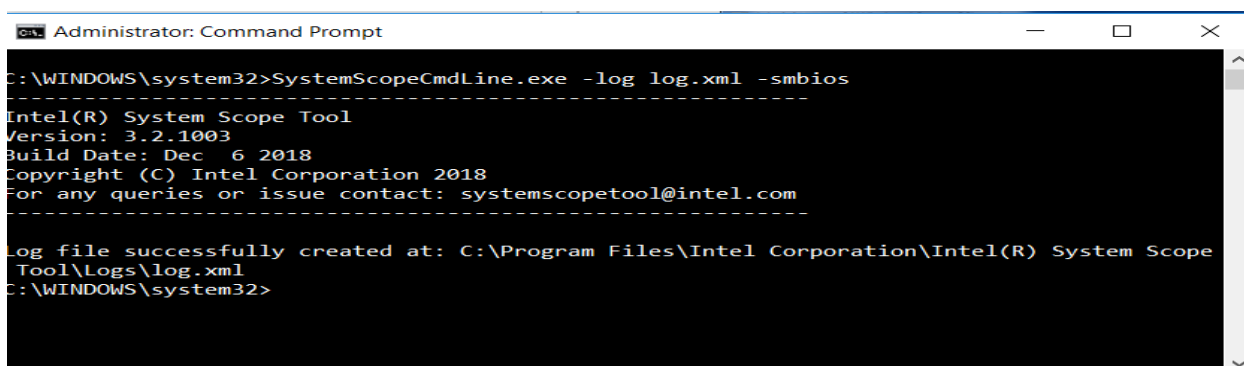
```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -pch
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

Figure 13.24 Saving the Processor Information



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -processorinfo
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

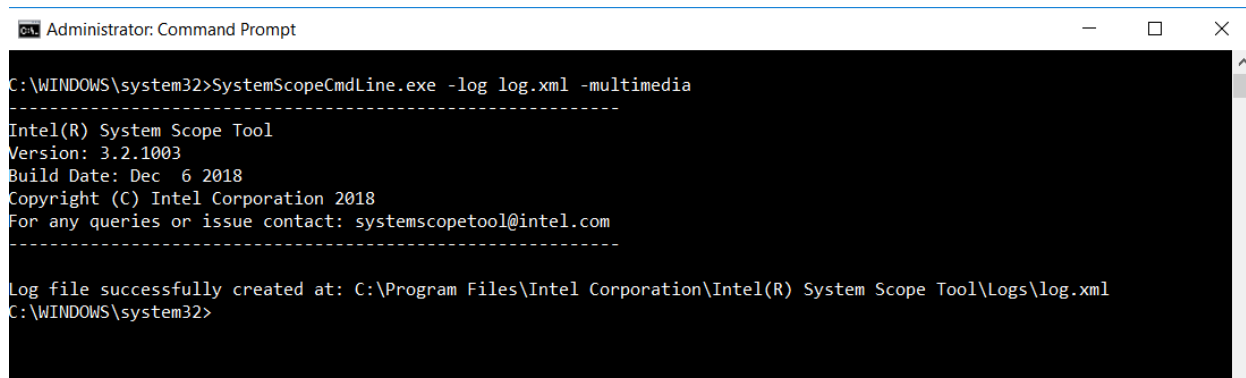
Figure 13.25 Saving the SMBIOS Information



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -smbios
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

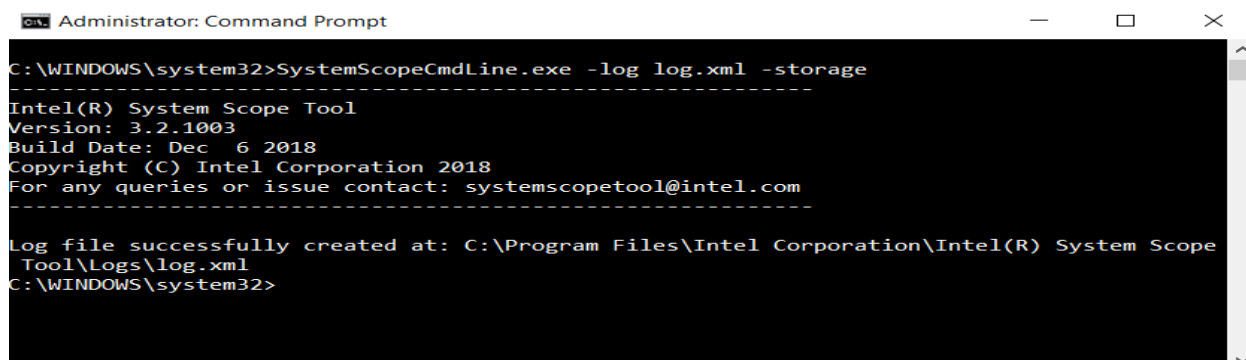
## Command Line Operations

Figure 13.26 Saving the Multimedia Information



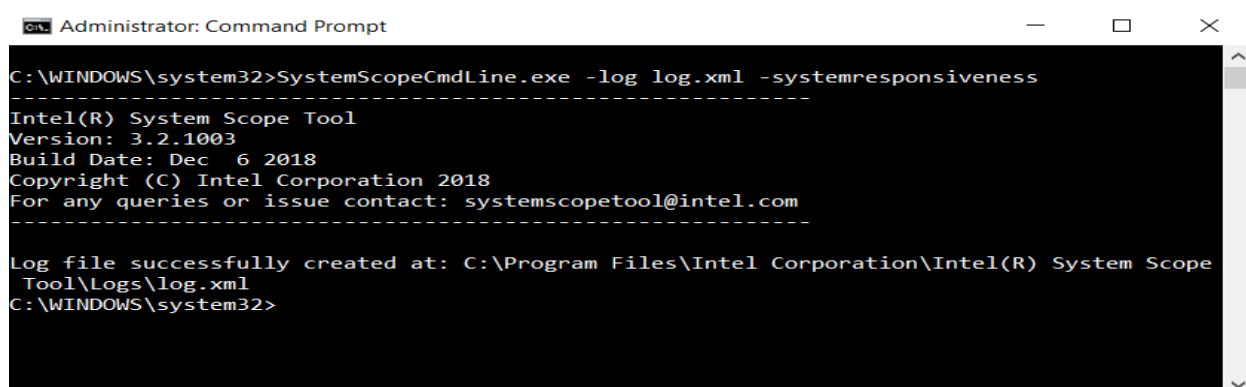
```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -multimedia
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\Logs\log.xml
C:\WINDOWS\system32>
```

Figure 13.27 Saving the Storage Information



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -storage
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\Logs\log.xml
C:\WINDOWS\system32>
```

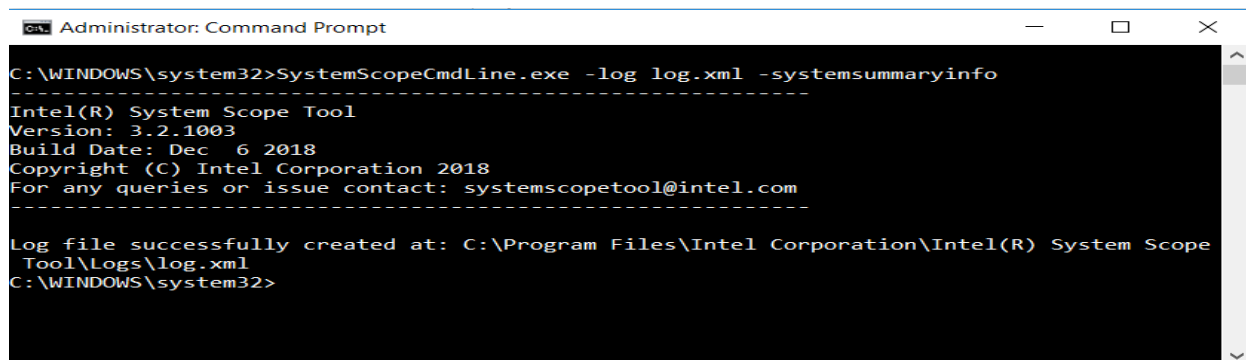
Figure 13.28 Saving the System Responsiveness information



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -systemresponsiveness
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\Logs\log.xml
C:\WINDOWS\system32>
```

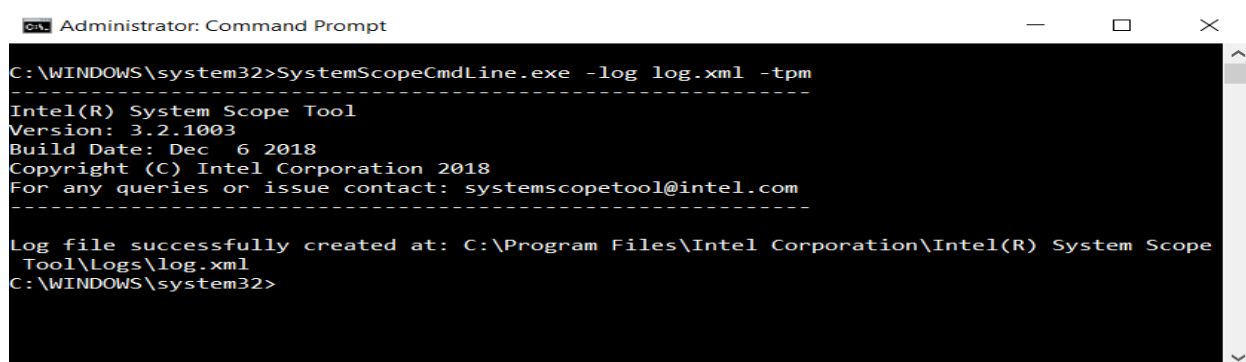
## Command Line Operations

Figure 13.29 Saving the Generic System Information



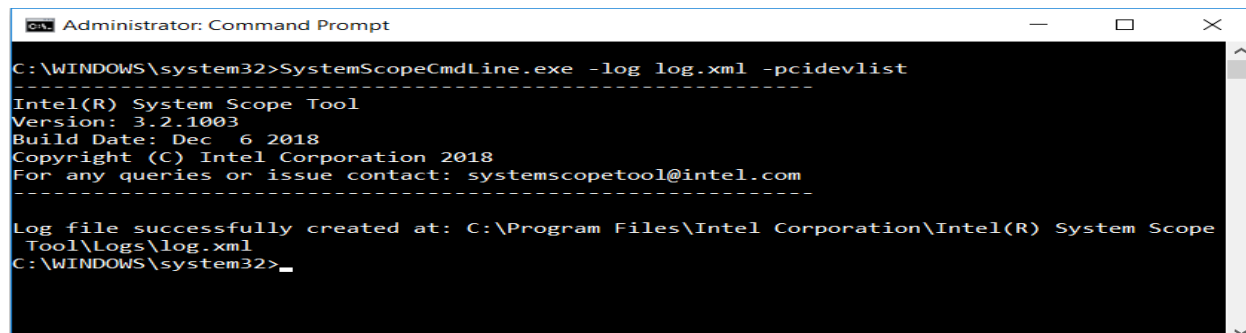
```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -systemsummaryinfo
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

Figure 13.30 Saving the TPM Information



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -tpm
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

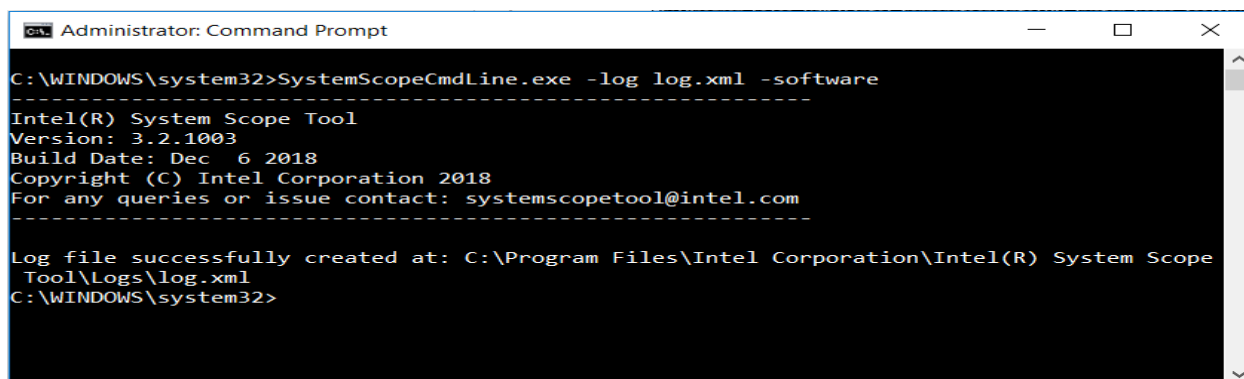
Figure 13.31 Saving the PCIDevList



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -pcidevlist
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

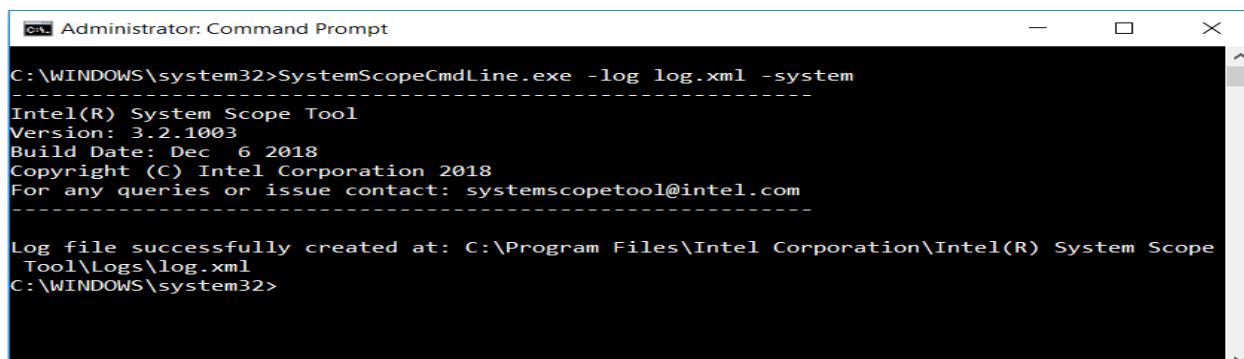
## Command Line Operations

Figure 13.32 Saving the Complete Software Information



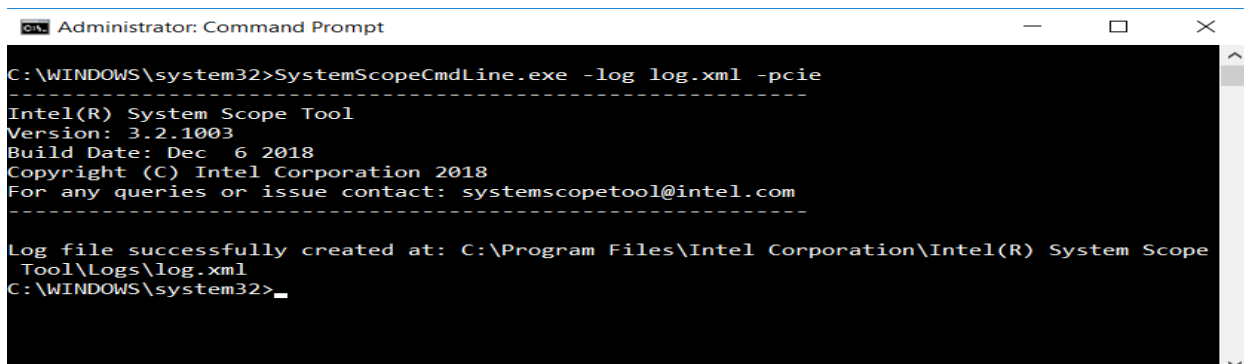
```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -software
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

Figure 13.33 Saving the Complete System Information



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -system
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

Figure 13.34 Saving the PCIe



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -pcie
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope
Tool\Logs\log.xml
C:\WINDOWS\system32>
```

## Command Line Operations

Figure 13.35 Saving the BKC Compare Log

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.16299.785]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>SystemScopeCmdLine.exe -comparebkc "C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\SupportedBinaries\BKC_Template.xml"

-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----

BKC Compare Report creation successful at:
HTML Report Path : C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\BKCReports\BKCComparisonReport_2018-12-07_10_27_22.html
XLS Report Path : C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\BKCReports\BKCComparisonReport_2018-12-07_10_27_22.xls

C:\WINDOWS\system32>
```

Figure 13.36 Saving the WWAN Information

```
Administrator: Command Prompt

C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -wwan

-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----

Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\Logs\log.xml

C:\WINDOWS\system32>
```

Figure 13.37 Saving the Generate BKC Reference File

```
Administrator: Command Prompt

C:\WINDOWS\system32>SystemScopeCmdLine.exe -generatebkc "C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\SupportedBinaries\BKC_Template.xml"

-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----

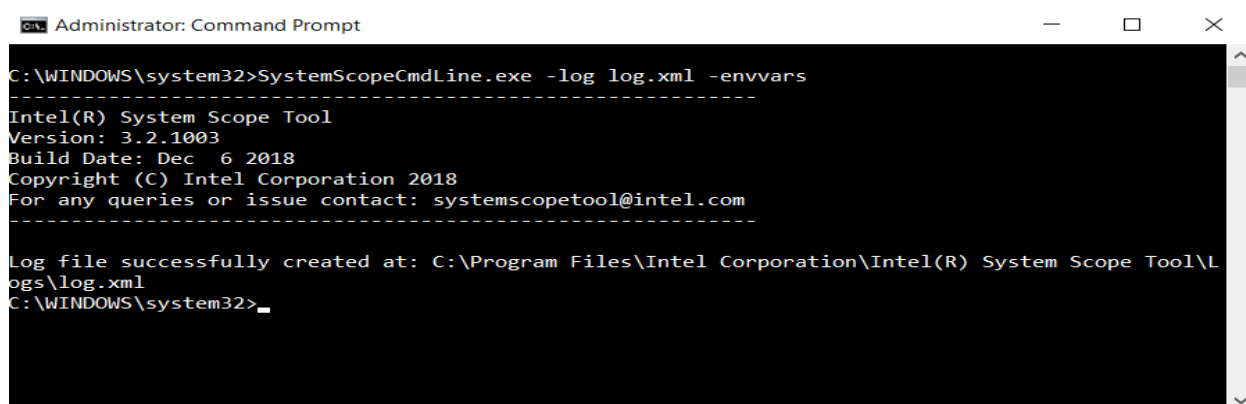
BKC logfile creation successful at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\SupportedBinaries\SystemScope_BkcReference.xml

C:\WINDOWS\system32>
```



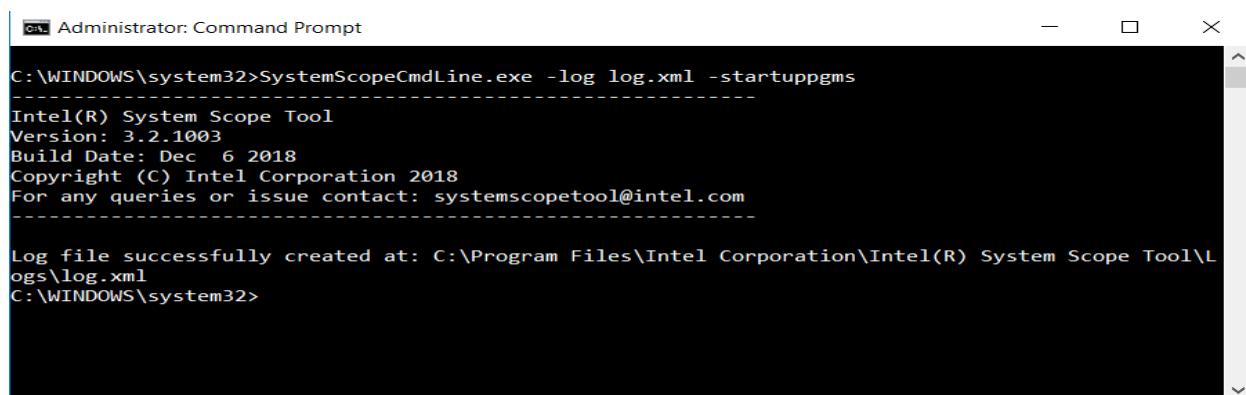
## Command Line Operations

Figure 13.38 Saving the Environmental Variables



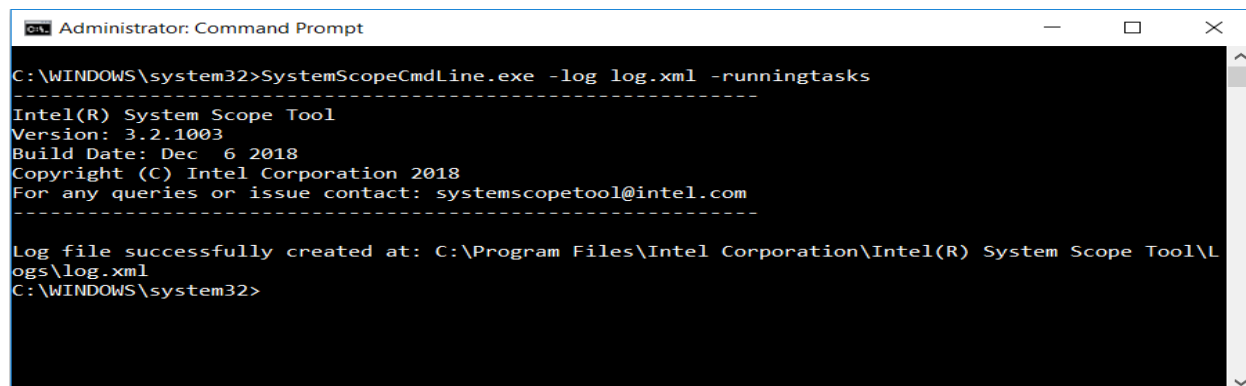
```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -envvars
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec  6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\Logs\log.xml
C:\WINDOWS\system32>
```

Figure 13.39 Saving the Startup Programs



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -startppgms
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec  6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\Logs\log.xml
C:\WINDOWS\system32>
```

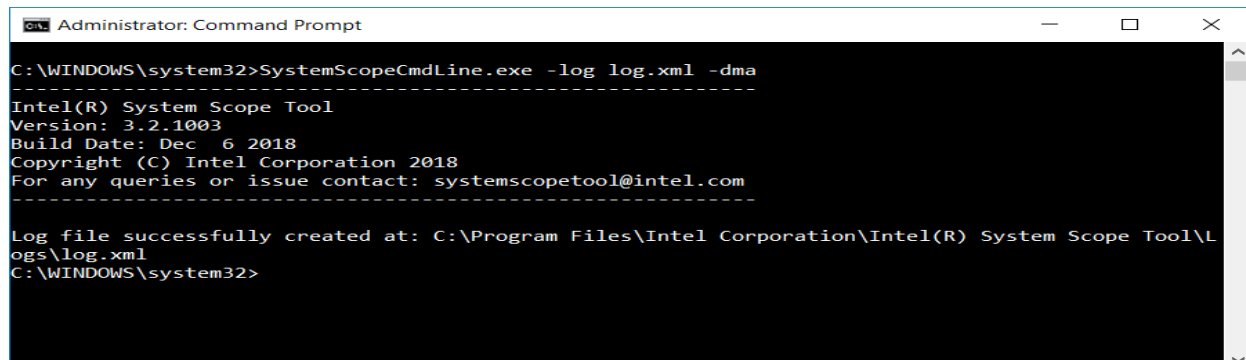
Figure 13.40 Saving the Running Tasks



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -runningtasks
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec  6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\Logs\log.xml
C:\WINDOWS\system32>
```

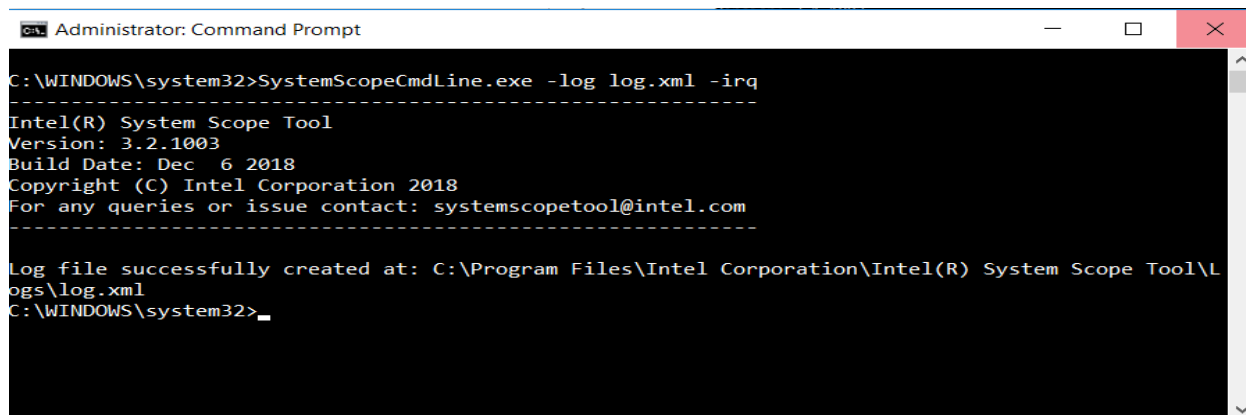
## Command Line Operations

Figure 13.41 Saving the DMA



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -dma
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec  6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\Logs\log.xml
C:\WINDOWS\system32>
```

Figure 13.42 Saving the IRQ



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -log log.xml -irq
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec  6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log file successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\Logs\log.xml
C:\WINDOWS\system32>
```

## Command Line Operations

Figure 13.43 System Scope Tool All Commands List

```
Administrator: Command Prompt

C:\WINDOWS\system32\SystemScopeCmdLine.exe -help

-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscope@intel.com
-----

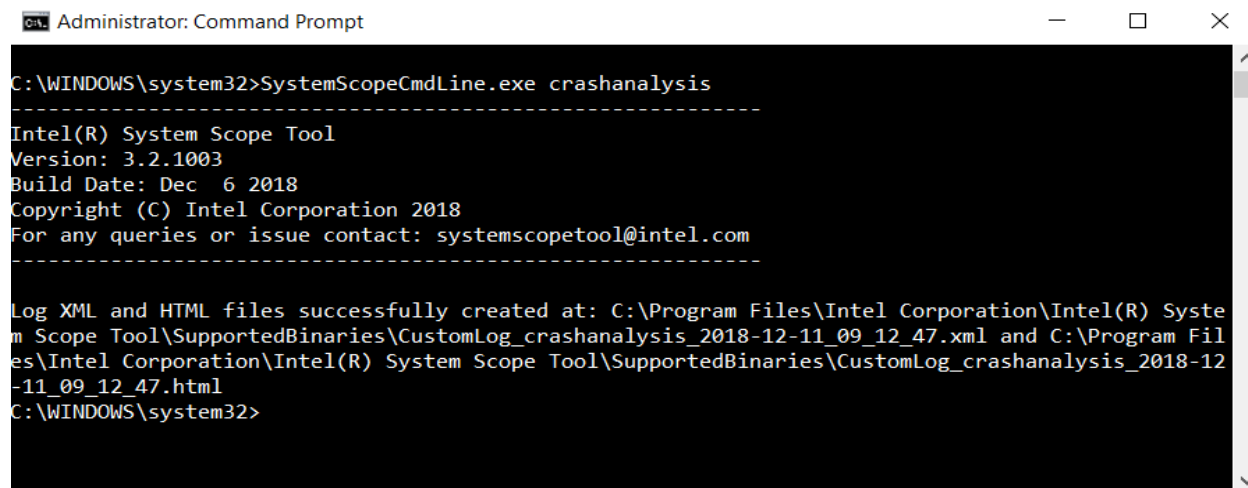
-ip: To connect to remote machine this command has to be provided. This can be used with any of the below mentioned commands. This will fetch the remote machine information. This should be provided as the first argument only. This is an optional argument, if this is not provided, local machine information will be fetched. Example: -ip <ipaddress> [any valid SystemScope command]
-port: This is also an optional parameter. If the target service on the remote machine is running on some other port number than the default port, then port number can be provided through this argument. This argument should be provided only if ipaddress is provided. Example: -ip <ipaddress> -port <portnumber> [any valid SystemScope command]

Intel (R) System Scope is a tool to provide the current snapshot of the system information which includes the platform hardware, BKC, Firmware, OS and the software details.
Usage:
-applicationlist: This will provide the details about the applications installed in the system and their versions.
-bkcmetainfo: Gives the details about BKC installed on the system FCO This is valid only for QWR image.
-devstacklist: Gives all the devices details which includes Device name, HardwareID. Etc
-driverlist: Provides the details of driver installed in the system and the versions.
-envvars: Displays all Environment variables set.
-modulememoryinformation: Gives the memory details for all the modules in the system.
-osinfo: This gives the OS information installed on the system
-osarch: To retrieve only the OS architecture.
-osversion: To retrieve only the OS version.
-registryinfo: To retrieve information about the registry.
-runningtasks: Shows all the running task names with versions.
-servicelist: Gives the details about all the services in the system.
-startuppgms: Displays all the programs which are scheduled during system startup.
-software: Gives the complete details of Applications/Drivers/OSInformation/Services in the system
-acpi: Gives the details about ACPI tables useful for power configuration.
-apachepass: To retrieve the Apache Pass Memory information.
-batteryinfo: Gives the details about battery connected to the system.
-bcdinfo: Gives the boot manager and boot loader information.
-biosoptions: Gives Platform Configuration Details.
-bluetooth: Gives all the list of visible and paired bluetooth devices.
-bmc: Gives the details about baseboard management controller on server systems.
-components: Gives the details about Camera, Multimedia and USB ports.
-dma: Shows DMA details.
-fpdt: Gives details about the time taken for each BIOS module to boot during S3/S4/S5.
-fpdtlog: To retrieve the complete FPDT Log information.
-fpdt [millisec,nanosec,microsec]: To retrieve the complete FPDT in milliseconds,microseconds,nanoseconds Example=-FPDT MilliSec.
-fpdtlog [millisec,nanosec,microsec]: To retrieve the complete FPDT in milliseconds,microseconds,nanoseconds Example=-FPDTlog MilliSec.
-firmwareversion: Gives the firmware version details.
-systemsummaryinfo: To retrieve the complete Systemsummary information.
-gfxinfo: Provides the details about gfx such as display resolution, Refresh rate, color depth. Etc.
-iccinfo: Provides the details about Integrated clock circuit.
-irq: Displays all the Resource-Device IRQ numbers .
-meinfo: Gives the details about ME firmware and ME software on the system.
```

## Command Line Operations

In Command line, if the user enters the invalid command other than the valid System Scope Commands, and if that entered command is present in CustomLog.xml file, a log file will be generated with the modules corresponding to that command present in the CustomLog.xml file. This Xml file is present in "C:\Program Data\SystemScopeTool". User can edit the file and can change the Modules list as per their requirement.

Figure 13.44 Saving the Custom Log Modules



```

Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe crashanalysis
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Log XML and HTML files successfully created at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\SupportedBinaries\CustomLog_crashanalysis_2018-12-11_09_12_47.xml and C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\SupportedBinaries\CustomLog_crashanalysis_2018-12-11_09_12_47.html
C:\WINDOWS\system32>

```

Figure 13.45 Format of CustomLog.xml

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```

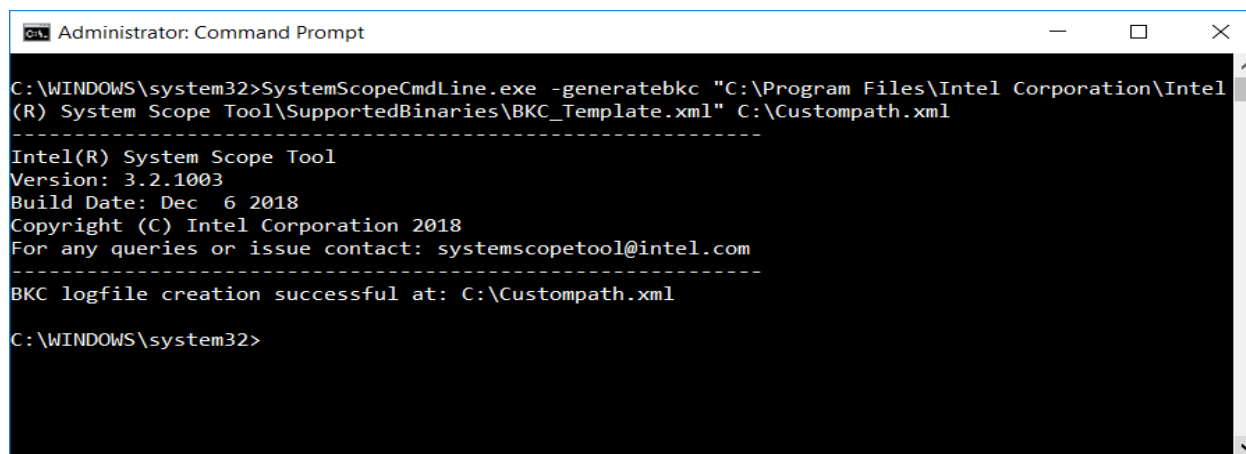
<CustomSystemScopeCmd>
  <Command>
    <Item command="crashanalysis"/>
    <Item modules="-smbios,-osinfo"/>
  </Command>
  <Command>
    <Item command="hsd"/>
    <Item modules="-applicationlist,-driverlist"/>
  </Command>
</CustomSystemScopeCmd>

```

## Command Line Operations

In Command line, for `-generatebkc`, `-comparebkc`, `-compare2bkc` the user has to Provide the input file name and the result will be saved in default file. Now there is an option to provide The output file name along with the command. If the user enters the custom path the file will be save in Custom path or else if the user doesn't provide any file name the output will be saved in default file only. This is an optional parameter.

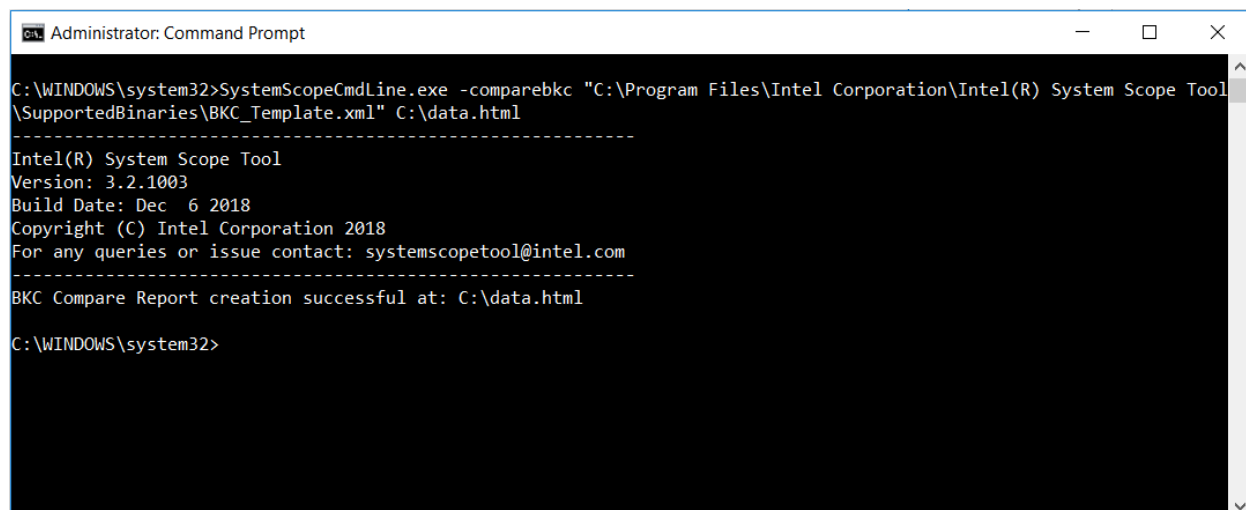
Figure 13.46 Custom path option for generatebkc



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -generatebkc "C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\SupportedBinaries\BKC_Template.xml" C:\Custompath.xml
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
BKC logfile creation successful at: C:\Custompath.xml
C:\WINDOWS\system32>
```

Figure 13.47 Custom path for comparebkc

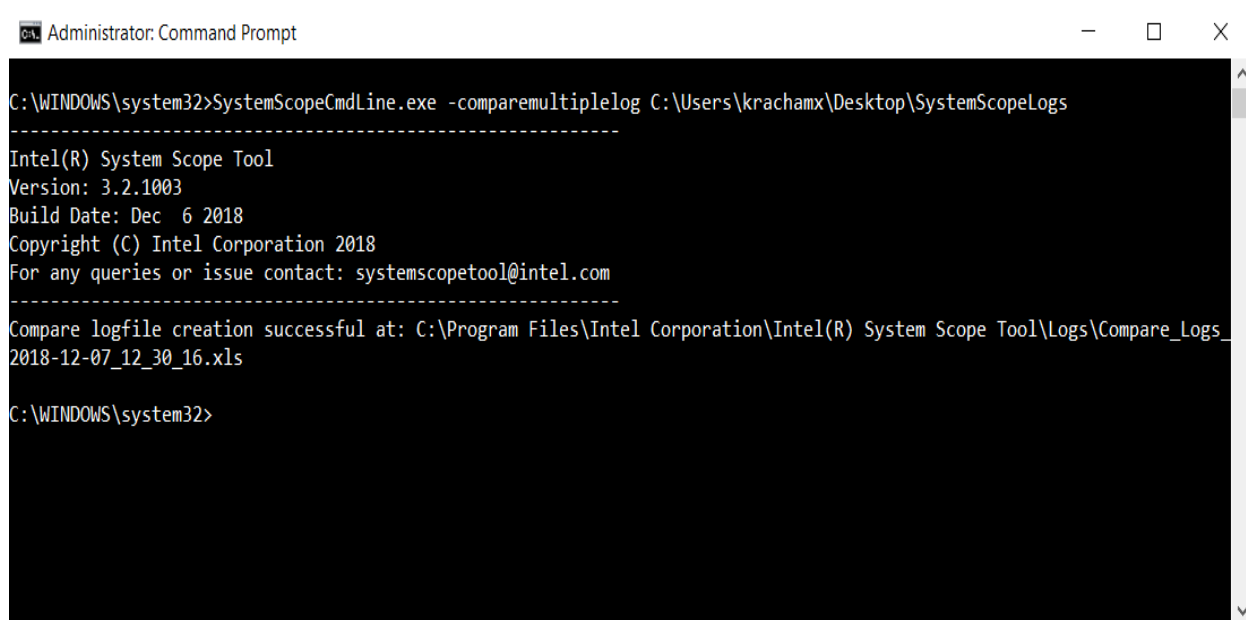
Third Parameter is the custom path here. Supported report formats are html, xls and json. Sample Screen shot of html format is attached below.



```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -comparebkc "C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\SupportedBinaries\BKC_Template.xml" C:\data.html
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
BKC Compare Report creation successful at: C:\data.html
C:\WINDOWS\system32>
```

## Command Line Operations

Figure 13.48 Compare Multiple Logs

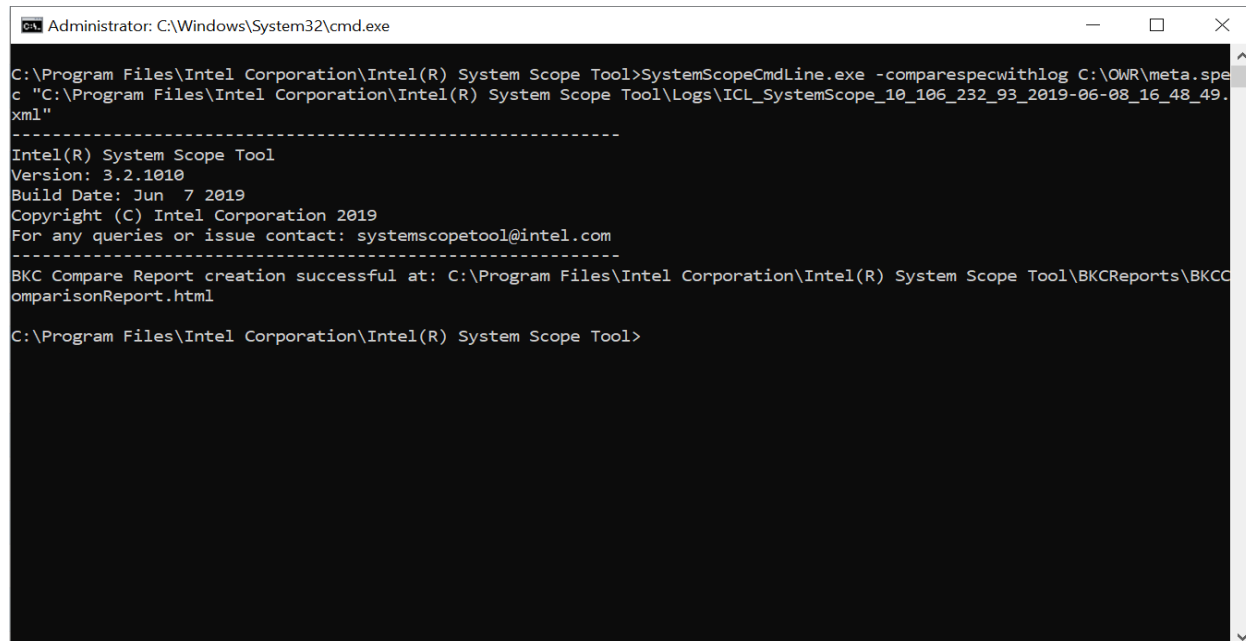


```
Administrator: Command Prompt
C:\WINDOWS\system32>SystemScopeCmdLine.exe -comparemultiplelog C:\Users\krachamx\Desktop\SystemScopeLogs
-----
Intel(R) System Scope Tool
Version: 3.2.1003
Build Date: Dec 6 2018
Copyright (C) Intel Corporation 2018
For any queries or issue contact: systemscopetool@intel.com
-----
Compare logfile creation successful at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\Logs\Compare_Logs_
2018-12-07_12_30_16.xls

C:\WINDOWS\system32>
```

Figure 13.49 Comparing Meta.spec with SystemScopeLog

This option will compare meta.spec file with SystemScopeLog and saves the result in HTML File.



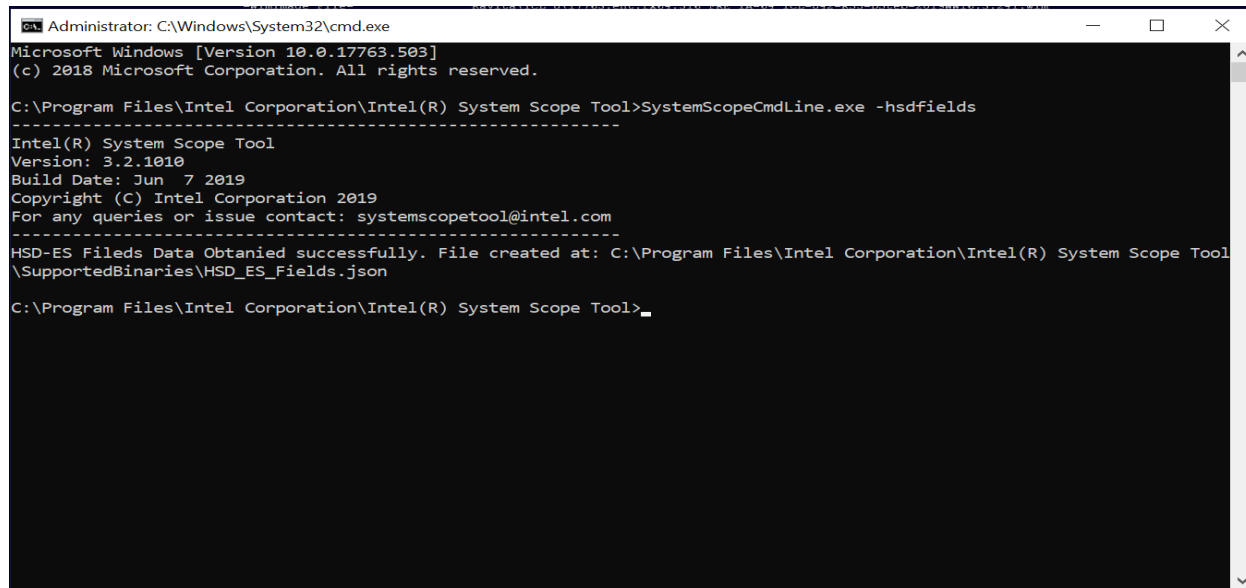
```
Administrator: C:\Windows\System32\cmd.exe
C:\Program Files\Intel Corporation\Intel(R) System Scope Tool>SystemScopeCmdLine.exe -comparespecwithlog C:\QWR\meta.spec
c "C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\Logs\ICL_SystemScope_10_106_232_93_2019-06-08_16_48_49.
xml"
-----
Intel(R) System Scope Tool
Version: 3.2.1010
Build Date: Jun 7 2019
Copyright (C) Intel Corporation 2019
For any queries or issue contact: systemscopetool@intel.com
-----
BKC Compare Report creation successful at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool\BKCCReports\BKCC
omparisonReport.html

C:\Program Files\Intel Corporation\Intel(R) System Scope Tool>
```

## Command Line Operations

Figure 13.50 Logging the HSD-ES Fields (-hsdfields)

This option will log all the required fields for HSD-ES in JSON Format.



```
Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.17763.503]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Program Files\Intel Corporation\Intel(R) System Scope Tool>SystemScopeCmdLine.exe -hsdfields
-----
Intel(R) System Scope Tool
Version: 3.2.1010
Build Date: Jun  7 2019
Copyright (C) Intel Corporation 2019
For any queries or issue contact: systemscopetool@intel.com
-----
HSD-ES Fileds Data Obtained successfully. File created at: C:\Program Files\Intel Corporation\Intel(R) System Scope Tool
\SupportedBinaries\HSD_ES_Fields.json
C:\Program Files\Intel Corporation\Intel(R) System Scope Tool>
```



Main window

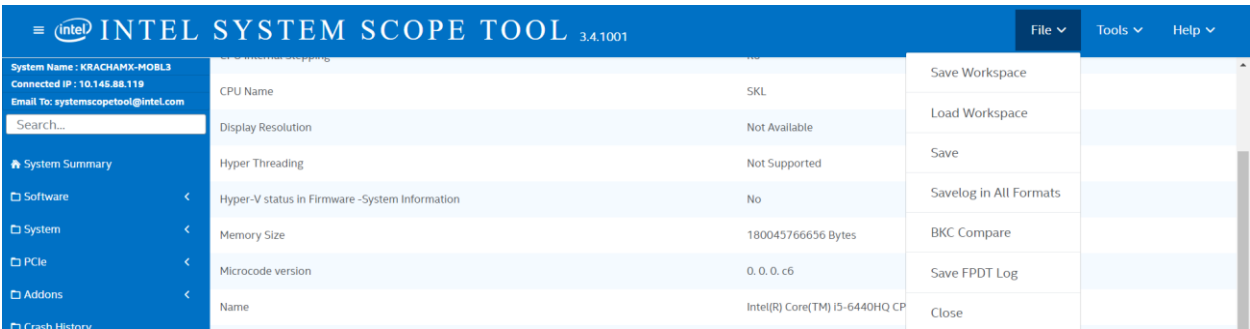
# 14. Main Window

## 14.1 File Menu

Click on the “File” menu item to get the options.

The menu allows you to launch the “Save Log” window

Figure 14.1 File Menu

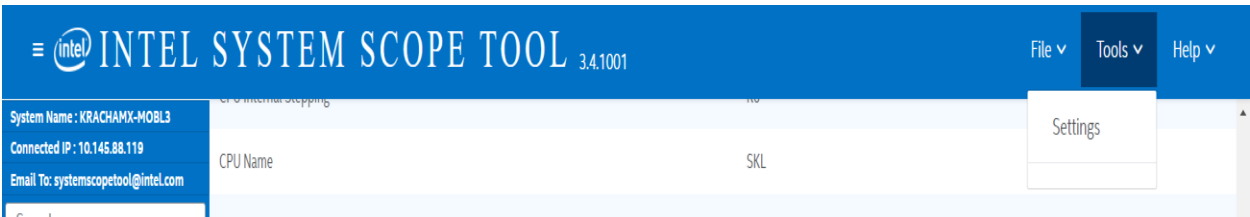


## 14.2 Tools Menu

Click on the “Tools” menu item to get the options.

The menu allows you to launch the “Settings” & “Manage Connection” window.

Figure 14.2 Tools Menu





Main window

## 14.3 Help Menu

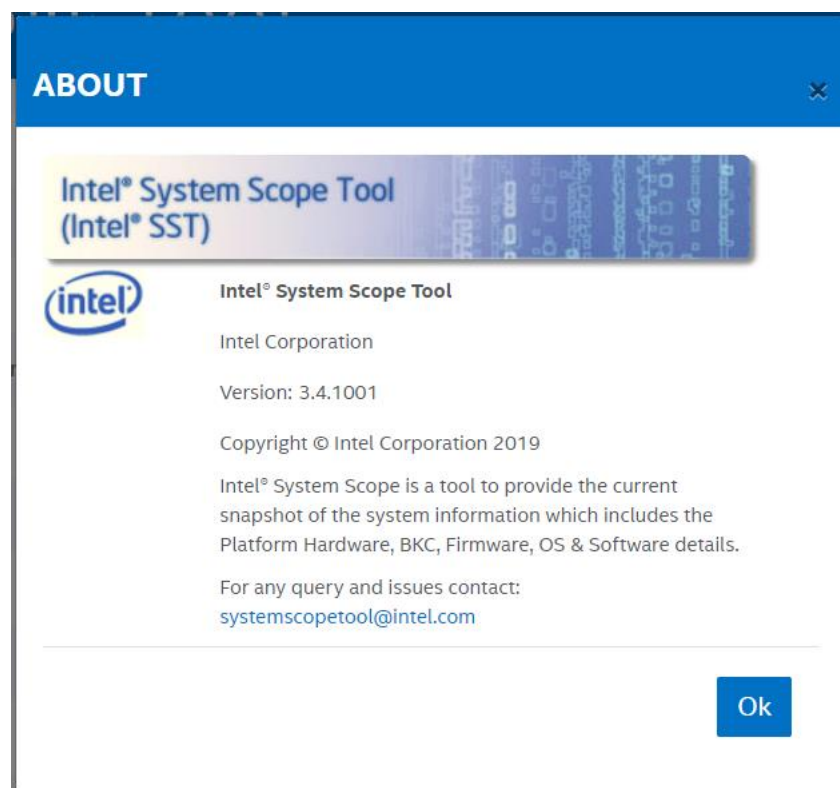
Click on the “About” menu item to get the options.

The menu allows you to launch the “About” & “Help” window.

Figure 14.3 Help Menu



Figure 14.3.1 About

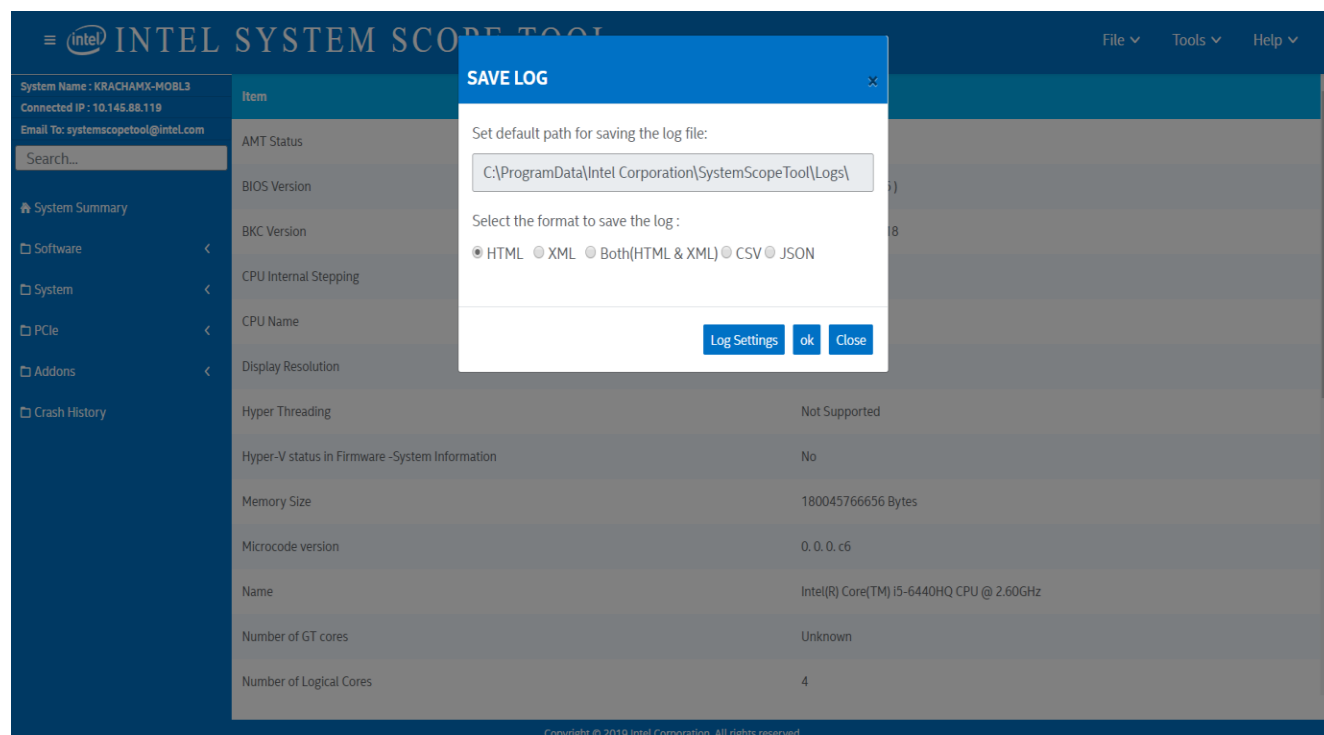


# 15. Save and Save FPDT Log

## 15.1 Save

Save option can be used for saving the system scope data. We can save the data in xml, html, Csv or both xml and html formats.

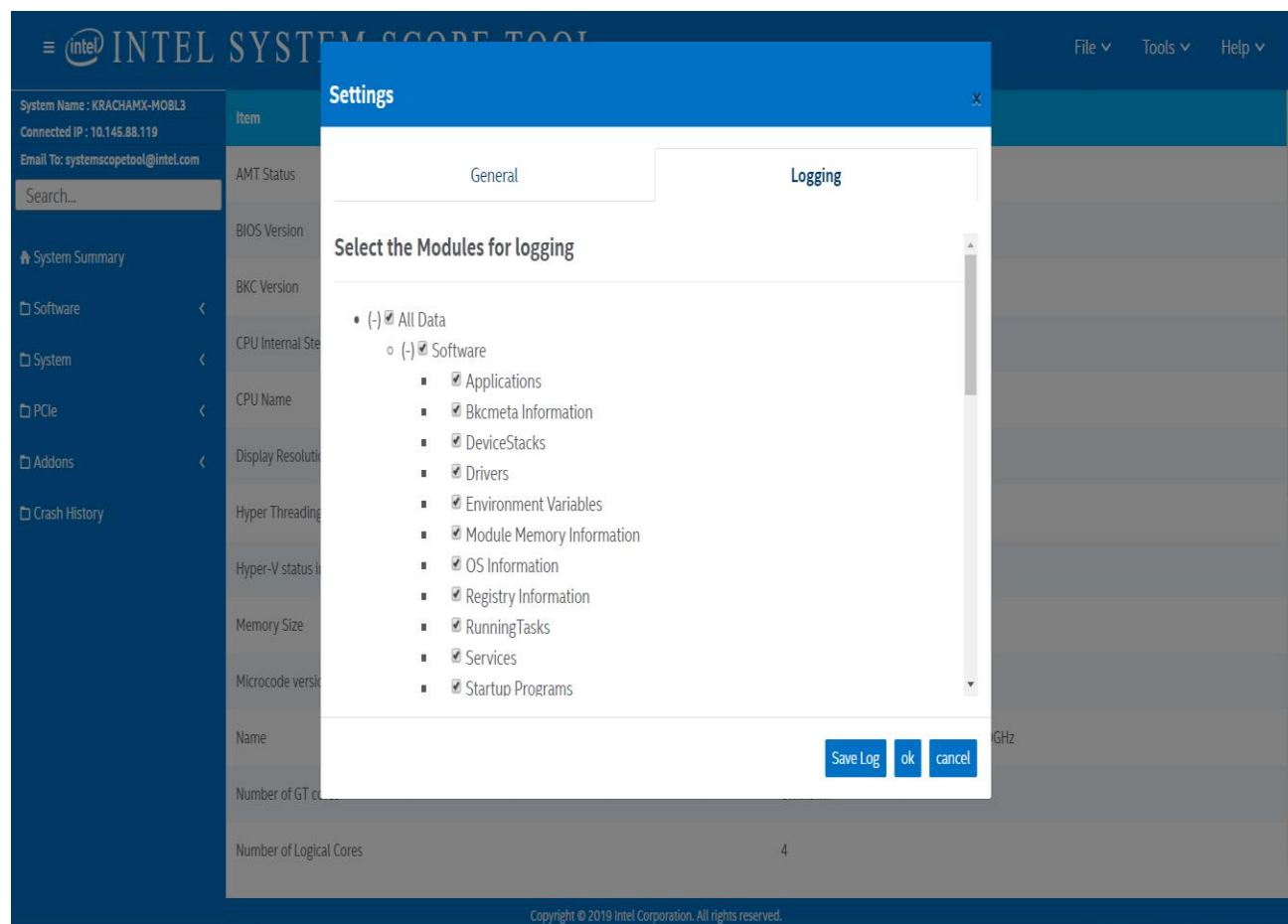
Figure 15.0 Save



## Save and Save FPDT Log

If user want to change settings just click on “Log Settings” button. Then modify the Log data  
By checking or unchecking the required fields.

Figure 15.1 Modifying the Log

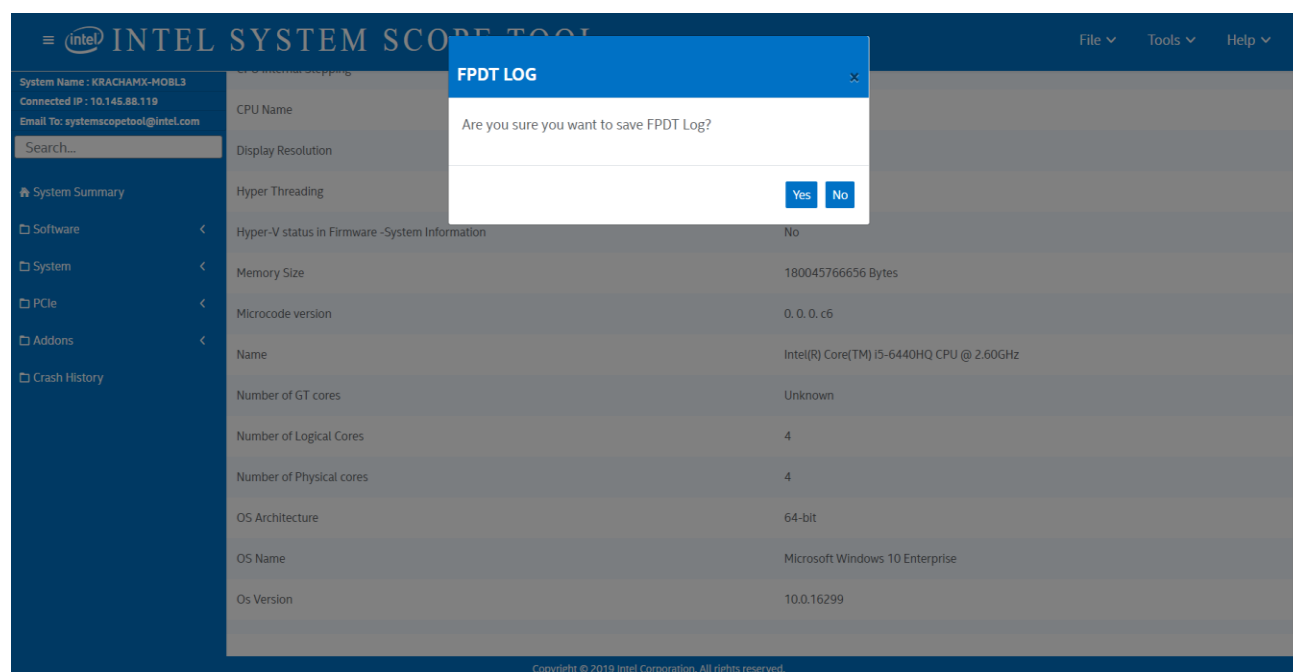


Save and Save FPDT Log

## 15.2 Save FPDT Log

Save FPDT log option can be used to save the FPDT log.

Figure 15.2 Saving the FPDT Log



If select "yes", it will be saved.

If select "no", popup will be closed.


## 16. Save Log in All Formats and BKC Compare

SST provides an option to save the System Scope Log files in all supported formats (.xml, .html, .csv and .json) and also to compare BKC with system Configuration in single click. These two options are added under File Menu. This operations can also be done by clicking the shortcuts present in start menu.

### 16.1 Save log in All Formats

On clicking this option, System Scope log with all the modules present will be save in all the Mentioned formats.

Figure 16.0 save log in All Formats



The screenshot displays the Intel System Scope Tool interface. The top bar shows the Intel logo, the title 'INTEL SYSTEM SCOPE TOOL 3.4.1001', and navigation menus for File, Tools, and Help. The left sidebar contains a tree view of system components: System Summary, Software (Bkmeta Information, DeviceStacks, Environment Variables, Module Memory Information, Registry Information, RunningTasks, Services, Startup Programs), System, PCIe, and Airflow. The main area is a table with columns 'Item' and 'Value'. A context menu is open over the table, showing options: Save Workspace, Load Workspace, Save, **SaveLog in All Formats** (highlighted), BKC Compare, Save FPDT Log, and Close. The table lists various system parameters such as AMT Status, BIOS Version, BKC Version, CPU Internal Stepping, CPU Name, Display Resolution, Hyper Threading, Hyper-V status, Memory Size, Microcode version, Name, Number of GT cores, and Number of Logical Cores.

Item	Value
AMT Status	Enabled
BIOS Version	R07ET86W (2.26 )
BKC Version	2019WW29.0.218
CPU Internal Stepping	R0
CPU Name	SKL
Display Resolution	Not Available
Hyper Threading	Not Supported
Hyper-V status in Firmware -System Information	No
Memory Size	180045766656 Bytes
Microcode version	0.0.0.c6
Name	Intel(R) Core(TM) i5-6440HQ CPU @ 2.60GHz
Number of GT cores	Unknown
Number of Logical Cores	4

Once the save log operation is done, a popup is displayed with paths of all the formats created

## 16.2 BKC Compare

On Clicking this option BKC file is compared with the system configuration. User can input the BKC file in the **SingleClick.ini** file provided at the time of installation. If no file is present BKC file is Generated from the Default BKC template provided and comparison will be done with that file.

Figure 16.1 BKC Compare

The screenshot displays the Intel System Scope Tool interface. The top bar shows the Intel logo, the title 'INTEL SYSTEM SCOPE TOOL', and the version '3.2.1003'. On the left, a sidebar contains a 'System Summary' section with expandable categories: Software, System, PCIe, Addons, and Crash History. The main area is a table with two columns: 'Item' and 'Value'. The table lists various system parameters such as AMT Status, BIOS Version, BKC Version, CPU Internal Stepping, CPU Name, Display Resolution, Hyper Threading, Hyper-V status, Memory Size, Microcode version, Name, Number of GT cores, Number of Logical Cores, Number of Physical cores, OS Architecture, OS Name, and OS Version. A 'File' menu is open, showing options like 'Save Workspace', 'Load Workspace', 'Save', 'Savelog in All Formats', 'BKC Compare' (highlighted in blue), 'Save FPDT Log', and 'Close'. The bottom of the interface includes a copyright notice: 'Copyright © 2018 Intel Corporation. All rights reserved.'

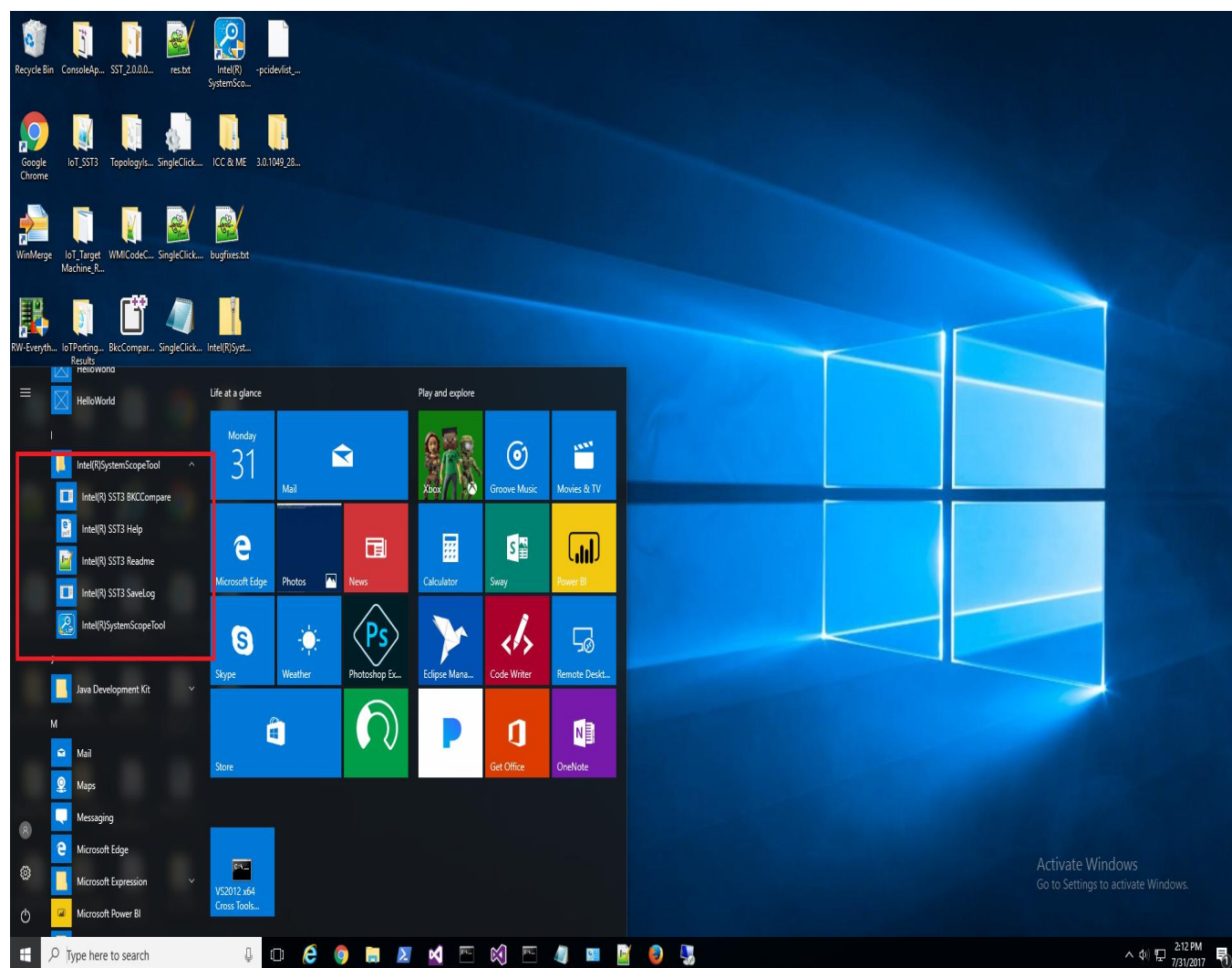
Item	Value
AMT Status	Enabled
BIOS Version	R07ET86W (2.26)
BKC Version	2018WW29.3.4
CPU Internal Stepping	R0
CPU Name	SKL
Display Resolution	Not Available
Hyper Threading	Not Supported
Hyper-V status in Firmware -System Information	No
Memory Size	180045766656 Bytes
Microcode version	0.0.0.c6
Name	Intel(R) Core(TM) i5-6440HQ CPU @ 2.60GHz
Number of GT cores	GT2
Number of Logical Cores	4
Number of Physical cores	4
OS Architecture	64-bit
OS Name	Microsoft Windows 10 Enterprise
OS Version	10.0.16299

Once the BKC compare operation is done, a pop up is displayed showing the path of the Comparison result.

## SaveLog in all Formats And BkcCompare

There is another option for these single click operations. By clicking on the shortcut present in the start menu we can get the results without opening the System Scope tool UI or Command Line.

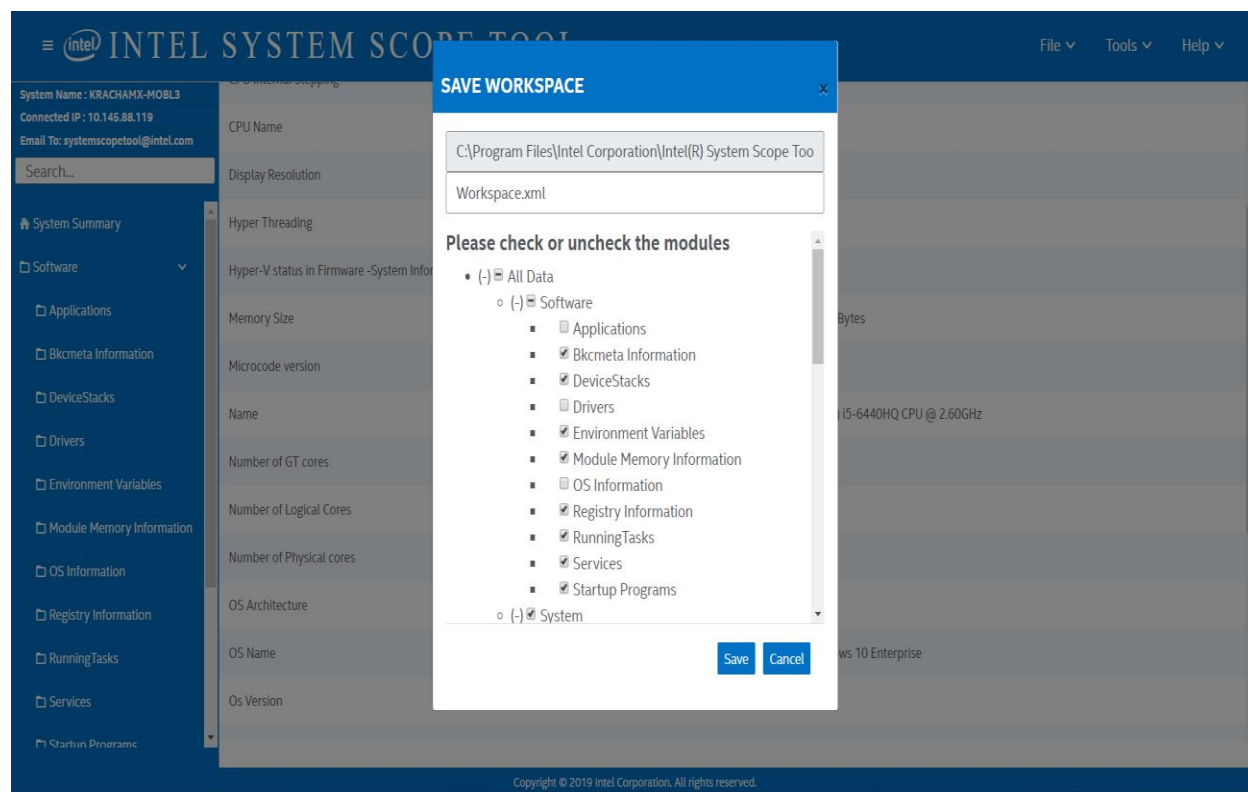
Figure 16.2 Shortcut option on Desktop



## 17. Load Custom Modules

This is a feature of System Scope Tool, which displays only the modules user intended. On click of Save Workspace option under File Menu, a pop-up is displayed that shows the tree list of all the presented modules in the platform. Here the user can uncheck the modules which they don't want to see or load.

Fig 17.1 Save Workspace popup to select modules to load

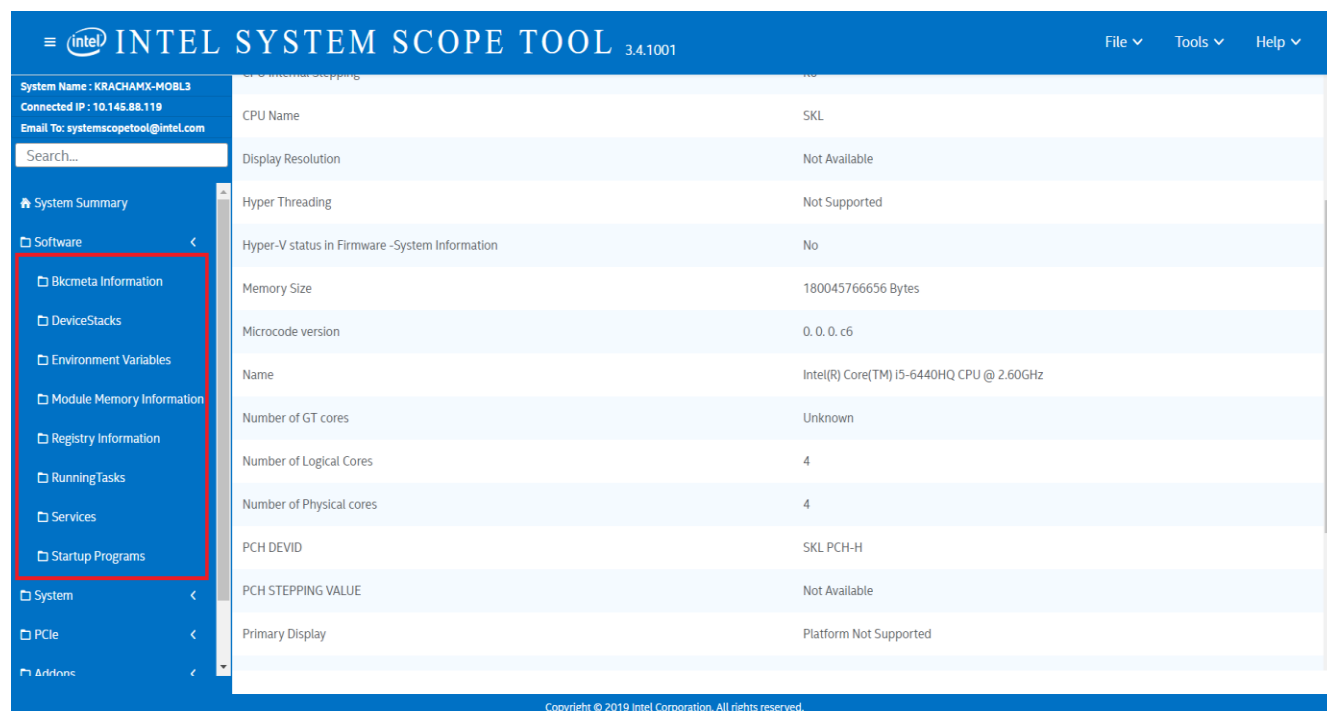


After unchecking the modules, click on save option and the workspace will be saved. Now click On the load Workspace option under the File Menu and select the workspace file and click on load. Then The tool will display on the modules which the user has selected.



## Load Custom Modules

Fig 17.2 Loading of Custom Modules



If the user again wants to load all the modules, click on save workspace under File Menu  
And check all the modules, save that workspace and load that again to see or load all the available  
Modules in the platform.



*Support*

## 18. Support

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Please contact your Intel representative or drop a mail to [systemscopetool@intel.com](mailto:systemscopetool@intel.com), to report any bugs or error events related to SystemScopeTool.

Kindly provide as many details as possible about the issue. This would help us resolve the issue Faster without the need for many email exchanges.