

Intel[®] Active System Console

User Guide

November 2009

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Contents

1	Intr	roducti	on	5
	1.1	Docume	ent Scope	5
	1.2 Overvie			5
	1.3	Feature	۶۶	5
	1.4	System	Requirements	6
		1.4.1	Supported Console Operating Systems	6
		1.4.2	Software Components	6
		1.4.3	Browser Requirements	6
		1.4.4	Supported Platforms	7
	1.5	Related	Information	8
	1.6	Termine	ology	9
2	Get	tina St	arted	
-	21	Overvie		10
	_	2.1.1	Prerequisites	10
	22	Installir	ng Intel® Active System Console	11
	2.3	Upgrad	ing Intel® Active System Console	15
	2.4	Uninsta	Iling Intel® Active System Console	19
3	Nav	vigating	n Intel® Active System Console	21
0	3.1	Hardwa	re Information	2 1
	0.1	3.1.1	Viewing System Health	
		312	Viewing System Summary	26
		3.1.3	Viewing Sensor Readings	27
		3.1.4	Viewing Fan and Temperature Sensor Readings	29
		3.1.5	Viewing Power and Voltage Sensors Readings	
		3.1.6	Viewing Chassis Information	
		3.1.7	Viewing System Event Log (SEL)	32
		3.1.8	Viewing DIMMs and Capacity Information	
		3.1.9	Viewing Processor Information	34
		3.1.10	Viewing Cache Information	35
		3.1.11	Viewing Storage Information (Local Drive, Hard Drive, and CD/DV	D
			Drive)	36
		3.1.12	Viewing Field Replacement Unit (FRU) Information	37
	3.2	Configu	ring BMC	38
		3.2.1	Configuring LAN	39
		3.2.2	Configuring User Password	40
		3.2.3	Configuring Boot Options	41
		3.2.4	Configuring Power Restore Options	42
		3.2.5	Configuring Serial Over LAN (SOL)	43
		3.2.6	Configuring Alert Destinations	44

3.2.7	Configuring Node Manager Policies	47
3.2.8	Configuring Refresh and SEL Alerts Interval	52

1 Introduction

The Intel® Active System Console is a walk-up console that provides you a dashboard view of the system on which it is running. It also provides a BMC configuration. It serves as the hardware view of the server providing information about the hardware components of the system. The main components shown include overall health of the server and component health, sensors, System Event Log (SOL), storage (Logical Drives, Hard Drives and CD and DVD Drives), processors, memory, FRU and BMC configuration.

1.1 Document Scope

The purpose of this document is to help you install and use the Intel® Active System Console. It provides you detailed information on the features of Intel® Active System Console and how to use them. It describes the software requirements, supported operating systems and the supported platforms. It also explains the installation and un-installation process.

1.2 Overview

The Intel® Active System Console displays the hardware sensors, Field Replaceable Unit (FRU) data, and System Event Log (SEL) for any system. This console is only available for Intel servers that have a baseboard management controller or National Semiconductor* PC87431x "mini" BMC.

To launch the Intel® Active System Console, go to Start> Programs> Intel® Server Management Software >Intel® Active System Console.

1.3 Features

The Intel® Active System Console has the following features:

- Viewing System Health
- Other Hardware Information as follows:
 - Viewing System Summary
 - o Viewing Sensor Readings
 - Viewing Fan and Temperature Sensor Readings
 - o Viewing Power and Voltage Sensors Readings
 - o Viewing Chassis Information
 - Viewing System Event Log (SEL)
 - Viewing DIMMs and Capacity Information

- o Viewing Processor Information
- o Viewing Cache Information
- Viewing Storage Information (Local Drive, Hard Drive, and CD/DVD Drive)
- o Viewing Field Replacement Unit (FRU) Information
- Configuring BMC feature including the following:
 - o Configuring LAN
 - o Configuring User Password
 - o Configuring Boot Options
 - o Configuring Power Restore Options
 - Configuring Serial Over LAN (SOL)
 - o Configuring Node Manager Policies
 - o Configuring Refresh and SEL Alerts Interval

1.4 System Requirements

This section details the software requirements, supported operating systems and the supported platforms for the Intel® Active System Console.

1.4.1 Supported Console Operating Systems

- Windows Server 2003 (Standard and Enterprise) Edition SP2 x86, x64*
- Windows Server 2003 Release 2 x86 and x64*
- Windows Vista*
- Windows 2008 x86 and x64* and Windows 2008 R2*
- Windows 7*

1.4.2 Software Components

- Internet Information Server
- .Net 3.0

1.4.3 Browser Requirements

The application can be run on Internet Explorer Version 6.0 or above. This application has been sanity tested on Firefox $v2.0^*$.

1.4.4 Supported Platforms

The following platforms that have a BMC and associated agents running on them are supported:

- Intel® Server Board S5500BC
- Intel® Server Board S5520HC
- Intel® Server Board S5520UR
- Intel® Server Board S5500WB
- Intel® Workstation Board S5520SC
- Intel® Server Board S5000PSL & S5000XSL
- Intel® Server Board S5400SF
- Intel® Server Board S5000PAL
- Intel® Server Board S5000VSA
- Intel® Workstation Board S5000XVN
- Intel® Server Board S5000VCL
- Intel® Server Board X38ML
- Intel® Server SystemS7000FC4UR
- Intel® Server Board S3200SH

In addition to supporting English, the Intel® Active System Console supports other languages as well. The UI will be localized per browser's language. Languages supported are as shown in Table 1: Languages Supported:

Name	Description
En	English
De	German
Es	Spanish
Fr	French
It	Italian
Ja	Japanese
Ко	Korean
Pt	Portuguese
Ru	Russian
Zh-Chs	Simplified Chinese
Zh-Cht	Traditional Chinese

Table 1: Languages Supported

To get the latest and up-to-date list of supported operating systems, system requirements and platforms supported refer to the release notes available with the product.

1.5 Related Information

Document/ Information	Source
Intel® Server Management Pack Release Notes	Available at the root of the DVD.
Intel® Modular Server Management Pack User Guide	Documents\User Guide\ENU
Intel® AMT Management Pack User Guide	software\amtmp\MPAMTInstallation\iAMT MP for Ops Mgr and Essentials
Intel® Server Management Pack Upgrade Guide	Documents\User Guide\ENU
Intel® Command Line Interface User's Guide	software\utilities\linux\DPC- CLI\docs\ <lang></lang>
Microsoft® System Center Essentials 2007*	software\sce\ENU\ProductDocumentation
Intel® Intelligent Power Node Manager – White Paper	documents\User Guide\ENU
Intel® System Management Software Installation Guide	documents\Installation\ENU
Intel® SNMP Subagent User Guide	software\utilities\linux\SNMP_SA\Baseboard_ Subagent\docs\ <lang< td=""></lang<>
Intel® Utilities Installation Instructions	Documents\Installation\ <lang></lang>
Intel Support	http://support.intel.com

The following table lists the related information:

1.6 Terminology

The following table lists the terminology used in this document and the description:

Term	Description	
Agent	Agent is the Software Development Kit Layer for Extracting the Server Hardware Information from Base Board Management Controller and System Management Basic Input Output System (BIOS)	
BMC	Base board Management Controller	
CIM	DMTFs Common Information Model - CIM provides a common definition of management information for systems, networks, applications and services, and allows for vendor extensions	
GUI	Graphical User Interface	
Intel® AMT	Intel® Active Management Technology	
Intel® SMS	Intel® System Management Software	
IPMI	Intelligent Platform Management Interface. Operates independent of the operating system (OS) and allows you to manage a system remotely even in the absence of the OS	
Management Pack	It is a Plug-in module in System Center Essentials software that has all the definitions and configurations of the Intel® Server Hardware Components	
RAID	Ra	
RMCP	Remote Management Control Protocol – Protocol used by IPMI for communicating over LAN	
SCE*	Microsoft® System Center Essential* 2007	
SCOM*	Microsoft® System Center Operations Manager*	
SEL	System Event Log	
SMBIOS	System Management BIOS (SMBIOS) is specification to lay out data structures (and access methods) in a BIOS which allows a user or application to store and retrieve information specifically about the Server	
SNMP	Simple Network Management Protocol	
SOL	Serial Over LAN	
Upgrade	Enhanced versions of Intel® SMS with new platform support or new features are uploaded to Intel Website. Users installing Intel® SMS from a CD can upgrade to a new version using multiple ways. Intel recommends all users to upgrade to a new versions	

2 Getting Started

This section provides some basic steps on how to install and use the Intel® Active System Console.

2.1 Overview

The Autorun launches a Pre -Requisite checker (Figure 1) to validate that the Intel® Active System Console will be able to install without any complications. A system reboot may be required proceeding the prerequisite installation. The Intel® Active System Console Installer installs all the necessary components required for the Intel® Active System Console. This installer also installs an agent for the console to get/set data from/to the BMC.

2.1.1 Prerequisites

Following are the Prerequisites to install and use the Intel® Active System Console:



Figure 1. Pre-Requisite Checker

2.2 Installing Intel® Active System Console

1. Insert the SMS DVD. In the Pre-Requisite Checker screen (Figure 1) that appears, click **Continue Installation** to display the Installation Status screen as shown in Figure 2.



Figure 2 – Installation Status

2. Click button **Click to Install**. The **Preparing to Install** dialog configuring Windows* installer opens as shown in Figure 3.



Figure 3. InstallShield Wizard – Preparing to Install

3. Once the configuration of Windows* Installer is complete, the Welcome screen for the Intel® Active System Console - InstallShield Wizard opens as shown in Figure 4.



Figure 4 – InstallShield Wizard – Welcome Screen

4. Click **Next** to continue. The **License Agreement** screen appears as shown in Figure 5.

Fintel(R) Active System Console - InstallShield Wizard			
License Agreement Please read the following license agreement carefully.			
Intel(R) System Management Software End User			
USING. Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this			
 I accept the terms in the license agreement I do not accept the terms in the license agreement 			
< Back Next > Cancel			

Figure 5 – InstallShield Wizard – License Agreement Screen

5. Read the license agreement and to accept, select the **I accept the terms in the license agreement** button. Click **Next**.

Note: The Next button is disabled till you select the *accept agreement* option. The Logon Information screen appears as shown in Figure 6.

🚰 Intel(R) Active System Console - InstallShield Wizard	×
Logon Information	
Specify a user name and password	
Enter the User Name and Password for Intel(R) Server Management Pack console Authentication. The user account must be in the form DOMAIN\Username.	
User name:	
Password:	
InstallShield	
< Back Next > Cancel	

Figure 6 – InstallShield Wizard – Logon Information Screen

Enter Username and Password and click **Next**. The Installing Intel® Active System Console progress window appears as shown in Figure 8.

Note: You need valid domain administrative rights. In case of a local console, this can be any administrator account.

📅 Intel(R) Active System Console - InstallShield Wizard	×
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
A Back Install Cancel	

Figure 7 – InstallShield Wizard – Installation Screen

6. Click Install to continue installation.



Figure 8 – InstallShield Wizard – Installing Intel® Active System Console Screen

7. Once installation is complete, the InstallShield Wizard Completed screen opens as shown in Figure 9.



Figure 9 – InstallShield Wizard completed– Installing Intel® Active System Console Screen

8. Click **Finish** to exit the wizard.

2.3 Upgrading Intel® Active System Console

This section details steps to upgrade the Intel® Active System Console.

1. The Intel® Active System Console Upgrade Setup dialog appears as shown in Figure 10.



Figure 10 – Intel® Active System Console Upgrade Setup Initial Dialog

2. Click **Yes** to continue. The Resuming the Installshield Wizard for Intel® Active System Console windows appears as shown in Figure 11. Click **Next** to continue.



Figure 11 –Intel® Active System Console Upgrade Configuring Installer Window

3. In the Logon Information window that opens fill in username and Password. Click **Next**.

🙀 Intel(R) Active System Console - InstallShield Wizard	×
Logon Information Specify a user name and password	A.
Enter the User Name and Password for Intel(R) Server Management Pack co Authentication. The user account must be in the form DOMAIN\Username.	nsole
User name:	
Password:	
InstallShield	
< Back Next >	Cancel

Figure 12 –Intel® Active System Console Upgrade Logon Information window

4. The installation status progress window appears.

📅 Intel(R)	Active System Console	- InstallShield	Wizard	_ 🗆 🗙
Installing The pro	Intel(R) Active System gram features you selecter	Console d are being insta	lled.	
1 6	Please wait while the Inst System Console. This may Status: Copying new files	tallShield Wizard y take several mi	installs Intel(R) / nutes.	Active
InstallShield-		< Back	Next >	Cancel

5. Once installation is complete, the **InstallShield Wizard Completed** window appears as shown in Figure 13.





6. Click **Finish** to exit the wizard. The following screen appears. Click **Yes** to reboot.



2.4 Uninstalling Intel® Active System Console

This section explains the steps to uninstall the Intel® Active System Console.

1. Go to Start->Programs->Intel System Management Software->Uninstall->Uninstall Intel Active System Console.

(You can also go to Start>My Computer>Add Remove Programs and proceed to uninstall Intel® Active System Console.)

The Intel® Active System Console start uninstall dialog opens as shown in Figure 14.and Figure 15.

ntel(R) Active System Console
Please wait while Windows configures Intel(R) Active System
Cancel

Figure 14 –Intel® Active System Console start uninstall dialog



Figure 15 – Intel® Active System Console uninstall gathering information dialog

2. In the Uninstall Intel® Active System Console Complete dialog that follows (Figure 16), click **Finish** to exit.



Figure 16 –Intel® Active System Console Uninstall Complete dialog

3 Navigating Intel® Active System Console

This section details how you can use the features of the Intel® Active System Console. Intel® Active System Console has a navigation pane on the left side of the screen. The navigation menu includes the following choices as shown in Figure 17.

- Hardware Information (opens by default)
- BMC Configuration



Figure 17. Intel ® Active System Console Home Page - Hardware Information

3.1 Hardware Information

Hardware choice	Function
Home	Displays system health information.
Baseboard	Displays hardware versions (BIOS, BMC, and other related information).
Sensor Readings	Displays a table of all hardware sensors and the threshold settings
Cooling	Displays a table of all fan/temperature sensors and the threshold settings
Power	Displays a table of all power supply sensors, threshold settings, voltage sensors, and node manager related information
Chassis Information	Displays the state of the chassis intrusion sensor and enables identifying the system by turning on/off the Chassis ID LED
System Event Log	Allows you to navigate and clear the SEL
Memory	Displays memory size and type information
Processor	Displays processor speed information
Cache	Displays cache-information
Storage	Displays information about the hard disk drives, logical disk drives, and media or DVD drives
FRU	Field Replaceable Unit information

This section lists the following Hardware choices available as listed in the following Table:

3.1.1 Viewing System Health

In the **Hardware Information** page, the **Home** page as shown in Figure 18 displays the health of the system and its components. The UI gets refreshed every 10 minutes.

Note: This is configurable in the **BMC Configuration>System Console** page with the data managed by reading of the sensor readings.

(intel) Intel [®] Active	e System Console
Hardware Information	Connected To :
	New Hardware Events : <u>0</u> Last Refresh Time : 4:42:29 PM
🍄 Power 🚦 Chassis Information 📄 System Event Log 🛰 Memory	Hardware Health
🔜 Processor 📎 Cache 🤝 Storage 🛲 FRU	Chassis Cooling
	Hard Drives Memory
Hardware Information	Processor Power
BMC Configuration	

Figure 18 – Intel ® Active System Console Home Page - Hardware Health

The health calculation for the components in the Home page is displayed in the respective pages as shown in the following Table:

Component	Function	Health Status displayed
Fan, Voltage	Checks the supported thresholds.	Critical - If current reading is outside range of critical thresholds, then the health status will be critical.
		Warning - If current reading falls outside of the non critical threshold ranges, then health status will be a warning.
		Healthy - Else the status will be healthy.
Temperature	Checks on the supported thresholds	If current reading falls outside the range, then health status will be changed depending on that.
		But if current reading is 0° C, then the corresponding sensors will not contribute to health.
Power Supply		Healthy – If Power Supply Sensors status is "Presence Detected"
		Critical – If Power Supply Sensors status is "PS Failure Detected" or "Predictive Failure"
		Warning – If Power Supply Sensors status is any result out of "Presence Detected", "Failure Detected" and "Predictive Failure"
Chassis		This is based on the chassis sensor status.
		If Intrusion status/Drive bay intrusion Status/IO Card Area intrusion status/processor area intrusion status/LAN Leash lost status/Fan area status/Unauthorized dock-undock status
		• True – Warning
		Otherwise – Healthy
Processor		The status of Thermal trip error, IError, Config error and Processor throttle status is checked.
		 If any of these are set, the status displayed - Critical
		Else - Healthy
		 If any of the error bit is set, the status displayed – Warning
Storage		The free space of hard disks is checked.
		If it is 90% full the status - critical.
		If it is 75% full the status - warning. Else - healthy.

Memory	Healthy – If Memory Sensors status is "Presence Detected" or "Spare"			
	Critical – If Memory Sensors status is "Uncorrectable ECC" or "Parity" or Memory Scrub Failed" or "Memory Device Disabled" or "Correctable Error limit reached" or "Configuration error" or "Critical Over temperature" or if Memory Slot Sensors status is "Fault Status Asserted" or "Slot is disabled"			
	Warning – if memory Sensors Status is " Correctable ECC"			
Note : Fan & Temperature together contribute to Cooling and Voltage. Current and Power supply health are combined to Power Monitoring.				

3.1.2 Viewing System Summary

To view information on the board, BIOS and FW, in the **Hardware Information** Page, click the **Baseboard** button to display System Summary the readings of numeric sensors and the status of discrete sensors as shown in Figure 19.

Intel® Active System Console	ive System Console	
Hardware Information	Connected To :	
Home	System Summary	
- 📾 Baseboard 	Property	¥alue
- Dooling	Asset Tag	
- 🗄 Chassis Information	BIOS Version	S5500.86B.01.00.0026.121920081404
🔲 System Event Log 🛰 Memory	BMC/FW Version	0.31
- 📰 Processor 	System GUID	e0113000b10111debea6001517348f69
- Storage	Module Type	RMM3
	IPMI Version	2.0
	SDR Package Version	SDR Package 0.11
	Serial Number	
	HSC Version	2.07
Start	ctive System	4:33 PM

Figure 19. IPMI System Summary

3.1.3 Viewing Sensor Readings

To view the sensor readings, in the **Hardware Information** Page, click **Sensor Readings** button as shown in Figure 20. As all thresholds are not supported for all sensors, unsupported thresholds are marked with a hyphen. Health of the sensors is also shown to indicate those that are critical and that are not.

Intel® Active System Console	e System Co	onsole					-®×		
Hardware Information	Connected T	o :					<u>^</u>		
- 📕 Home - 📾 Baseboard - 🔓 Sensor Readings - 🔓 Cooling	Export To File Temperature Sensors (InDegrees C)								
					Thresho	ld Values			
	Sensor Health	Sensor Name	Current Reading	Critical	Non-	Non-	Critical		
- Menory - Menory Processor				Critical	Critical	Critical	Critical		
∑ Cache Z Storage		Baseboard Temp		5.00		61.00	66.00		
i,≝ FRU	\bigcirc	Front Panel Temp	26.00	0.00	5.00	44.00	48.00		
	0	IOH Therm Margin	-64.00	-	-	5.00	10.00		
	\bigcirc	Mem P1 Thrm Mrgn	0.00	-	-	5.00	10.00		
	0	PS1 Temperature	29.00	-	-	55.00	60.00		
	\bigcirc	P1 Therm Margin	-50.00	-	-	-	-		
Hardware Information		P1 Therm Ctrl %	0.00	-	-	11.70	19.50		
BMC Configuration	\bigcirc	HSBP Temperature	27.00	5.00	9.00	50.00	55.00		
🐉 Start 🛛 😰 😸 🚽 🛄 Intel® Active S	ystem Co						4:34 PM		

Figure 20 - Sensor Readings 1

Click the **Export to File** button to download the readings to a client system to analyze the readings.

Intel® Active System Console	e System C	onsole							
Hardware Information	©	BB +12.0∨	, 11.93	10.73	11.10	12.92	13.28		
– 📾 Baseboard – 📗 Sensor Readings – 🍺 Cooling	0	BB -12.0V	-11.82	_ 12.51	-12.44	-11.51	- 11.42		
– 🤣 Power – 🚦 Chassis Information – 📑 System Event Log	Discrete Ser	isors							
	Sensor Pwr Unit State	Name	Sta	itus					
∑ Cache ‴Z Storage	IPMI Watchdog		ок						
FRU FRU	Physical Scrty	,	ок						
	FP NMI Diag II	nt	ОК						
	SMI Timeout		ок						
	System Event	Log	ОК						
	System Event		ОК						
	Fan 1 Present		Device Inserted/Devic	e Present					
	Fan 2 Present		Device Inserted/Devic	e Present					
	Fan 3 Present		Device Inserted/Devic	e Present					
	Fan 4 Present		Device Inserted/Devic	e Present					
Hardware Information	Fan 5 Present		Device Inserted/Devic	e Present					
	Fan 6 Present		Device Inserted/Devic	e Present					
BMC Configuration	Fan Redundan	icy	Fully Redundant				•		
🎒 Start 🗍 🞯 🧶 🛛 🗍 🛄 Intel® Activ	e System 🦉 sr1.PN	G - Paint				1	📵 🗞 🍢 4:34 PM		

Figure 21 - Sensor Readings 2

3.1.4 Viewing Fan and Temperature Sensor Readings

In the **Hardware Information** Pane, click the **Cooling** button to display the fan and temperature sensor readings as shown in Figure 22.

Intel® Active System Console	e System Co	onsole					- 8 ×
Hardware Information					Threshold	d Values	
Home	Sensor Health	Sensor Name	Current Reading	Lo	wer	Upp	er
Maseboard Maseboard Maseboard	neutti		Kedding	Critical	Non- Critical	Non- Critical	Critical
- 🗗 Cooling - ở Power - 🚦 Chassis Information	0	System Fan 1	3115.00	665.00	770.00	-	-
📃 System Event Log 飞 Memory 🛄 Processor	0	System Fan 2	3115.00	665.00	770.00	-	-
		System Fan 3	2625.00	665.00	770.00	-	-
	0	System Fan 4	3115.00	665.00	770.00	-	-
		System Fan 5	5304.00	1456.00	1664.00	-	-
	0	System Fan 6	4628.00	1456.00	1664.00	-	_
	Temperature	e Sensors (InDegr	ees C)				
					Thresho	ld ∀alues	
	Sensor Health	Sensor Name	Current Reading	Lower		Upp	er
Hardware Information				Critical	Non- Critical	Non- Critical	Critical
BMC Configuration		Baseboard Temp	30.00	5.00	10.00	61.00	66.00
🦺 Start 🛛 🚱 🥭 👘 🗍 Intel® Active	System						4:35 PM

Figure 22 - Cooling Sensors

3.1.5 Viewing Power and Voltage Sensors Readings

In the **Hardware Information** pane, click the **Power** button to view the power and voltage sensors readings as shown in Figure 23. For systems that do not have compatible power supply, this page will not have instances. If the platform does not support power gauge sensors or PMBUS power supplies, then the current reading will be 0s (for example, H800t).

Intel® Active System Console	e System C	onsole							
Hardware Information	Connected T	o :							
🛃 Home 🌆 Baseboard	Power Supp	olies							
📗 Sensor Readings 🌛 Cooling	Instance Id	Device Status	Power Usage %	Max Powe (Watts)	r Curre (nt Reading Watts)	Upper Thresho	Critical old(Watts)	
- 🤌 Power - 🚦 Chassis Information	0	TRUE	13	750	104		988		
🔲 System Event Log 💁 Memory	Node Manag	ger Statist	ics						
– 🔜 Processor – 🔪 Cache – 🍠 Storage	Node Manage Version	er Mana Engin	agement e Version	Maximum Policies	Min Pov Readi	ver Cu ng Re	rrent ower ading	Max Power Reading	
 FRU	NM Version 1	.5 1.10		10	94 Watt	s 105 W	/atts	114 Watts	
	Voltage Sen	SOI'S (In Volts	;)						
					Threshold Values				
	Sensor Health	Sensor	Name	Current Reading	Lower		U	pper	
					Critical	Non- Critical	Non- Critical	Critical	
		BB +1.1	∨ ІОН	1.09	1.02	1.05	1.14	1.17	
	0	BB +1.1 Vccp	V P1	1.03	0.68	0.70	1.50	1.54	
Hardware Information		BB +1.5 DDR3	V P1	1.53	1.36	1.40	1.58	1.63	
BMC Configuration	e System							4:36 PM	

Figure 23. Power and Voltage Sensors

3.1.6 Viewing Chassis Information

In the **Hardware Information** page, click the **Chassis Information** button to display the chassis intrusion information as shown in Figure 24. The user can also identify the server by turning the LED on or off. To do this, click the chassis icon in this screen.

Notes:

- For systems that do not support the chassis sensor, **The system LED is currently Not Supported status** displays.
- For some platforms, the status of LED is not supported, but the user will still be able to turn the LED on and off as shown in Figure 24. To do this, click the chassis icon in this screen.

📗 Intel® Active System Console			B×
(intel [®] Intel [®] Activ	ve System Console		
Hardware Information	Connected To :		
 Home Baseboard Sensor Readings Cooling Power Chassis Information System Event Log Memory Processor Cache Storage FRU 	Connected TO : Chassis Current State Intrusion Not Detected System Identify LED can ident turned ON/OFF. Click "Turn On STATUS of LED is ON TO STATUS of LED is ON	Intrusion Chassis Identify LED fy a specific server in a row or rack. This is a blinking LED that can be " to identify the system. Click "Turn Off" to switch off the LED.	
Hardware Information	-		
👌 Start 🛛 😥 🥭 🚽 🔲 Intel® Activ	ve System	4:3	i6 PM

Figure 24 – Chassis Information page

3.1.7 Viewing System Event Log (SEL)

In the **Hardware Information** pane, click the **System Event Log** button to display complete SEL information as shown in Figure 25.

Note: 20 records are shown per page. To navigate through additional records click the **Previous** and **Next** buttons as needed.

To clear the System Event Log of BMC, click the **Clear SEL** button. When you do this, the events that are cleared are stored in MonitoringAgentEvents-old.xml file on the managed node. In L1 mode, it is the same server and in L2, it is the server that you are connected to.

Intel® Active System Console	ctive System C	Console	
ardware Information	Connected T	-o:	
🛃 Home 🌆 Baseboard 🗽	SEL Display	Page : 1/41 Clear SEL Prev	vious
- 👂 Cooling - 👶 Power	Date / Ti	me Description	Sensor
Chassis Information	2/27/2009 3:10 PM	Informational event: System Event reports a PEF action has occurred - alert.	System Event
Memory	2/27/2009 3:10 PM	Informational event: System Event sensor 131 reports a system boot event has occurred.	System Event
 Processor Cache Storage 	2/27/2009 3:10 PM	Informational event: System Event sensor 131 reports Timestamp Clock Sync. Event is second of two expected events from BIOS on every power on.	System Event
,≖ FRU	2/27/2009 3:10 PM	Informational event: System Event sensor 131 reports Timestamp Clock Sync. Event is first of two expected events from BIOS on every power on.	System Event
	2/27/2009 2:57 PM	Informational event: System Event sensor 131 reports Timestamp Clock Sync. Event is second of two expected events from BIOS on every power on.	System Event
	2/27/2009 2:57 PM	Informational event: System Event sensor 131 reports Timestamp Clock Sync. Event is first of two expected events from BIOS on every power on.	System Event
	2/27/2009 2:57 PM	Informational event: System Event sensor 131 reports Timestamp Clock Sync. Event is first of two expected events from BIOS on every power on.	System Event
	2/27/2009 2:57 PM	OEM Timestamped SEL event	Temperature
	2/27/2009 2:57 PM	OEM Timestamped SEL event	Unknown
	2/27/2009 2:57 PM	CRITICAL event: System Management Software states that OS Critical Stop sensor 0 reports the OS has suffered a runtime stop.	OS Stop
Hardware Information	2/27/2009 2:06 PM	Informational event: System Event reports a PEF action has occurred - alert.	System Event
	2/27/2009 2:06 PM	Informational event: System Event sensor 131 reports a system boot event has occurred.	System Event
BMC Configuration	2/27/2009	Informational event: System Event sensor 131 reports Timestamp Clock	System
art 🛛 🚱 🥭 👘 🗍 🛄 Intel®	Active System		4:36 F

Figure 25. System Event Log

3.1.8 Viewing DIMMs and Capacity Information

In the **Hardware Information** pane, click the **Memory** button to view the DIMMs and capacity information in the **Memory Devices** page as shown in Figure 26.

Information	Connected 1	ō:				
	Memory De	vices				
ooard or Readings	Slot Name	Bank Name	Size	Speed	Туре	Memory Location
g	DIMM_A1	NODE 0 CHANNEL 0 DIMM 0	1024MB	800MHz	Other	Motherboard
is Information	DIMM_A2	NODE 0 CHANNEL 0 DIMM 1	1024MB	800MHz	Other	Motherboard
n Event Log	DIMM_B1	NODE 0 CHANNEL 1 DIMM 0	OMB			
7	DIMM_B2	NODE 0 CHANNEL 1 DIMM 1	омв			
SOF	DIMM_C1	NODE 0 CHANNEL 2 DIMM 0	OMB			
e	DIMM_C2	NODE 0 CHANNEL 2 DIMM 1	омв			
	DIMM_D1	NODE 1 CHANNEL 0 DIMM 0	OMB			
	DIMM_D2	NODE 1 CHANNEL 0 DIMM 1	омв			
	DIMM_E1	NODE 1 CHANNEL 1 DIMM 0	OMB			
	DIMM_E2	NODE 1 CHANNEL 1 DIMM 1	омв			
	DIMM_F1	NODE 1 CHANNEL 2 DIMM 0	OMB			
	DIMM_F2	NODE 1 CHANNEL 2 DIMM 1	омв			
rdware Information						

Figure 26 – Memory Devices Window

3.1.9 Viewing Processor Information

In the Hardware Information pane, click the Processor button to view the processors and corresponding load information as show in Figure 27.

📗 Intel® Active System Console _ 8 × Intel[®] Active System Console (intel) Hardware Information Connected To : Processor Information 📕 Home 📠 Baseboard Description Vendor Load Current Speed Max Speed h Sensor Readings EM64T Family 6 Model 26 Stepping 4 GenuineIntel 1.862GHz 1.862GHz CPUO 2% - 🕑 Cooling 🕹 Power 🚦 Chassis Information 🕘 System Event Log 🔌 Memory 📖 Processor 🔨 Cache 🥏 Storage 🛲 FRU Hardware Information BMC Configuration 🏄 Start 🛛 😥 🍠 Intel® Active System... 4:37 PM

Note: The load percentage indicates the load of the CPU at the time of query.

Figure 27 – Processor Window

3.1.10 Viewing Cache Information

From the **Hardware Information** pane, click the **Cache** button to view cache memory as shown in Figure 28.

📗 Intel® Active System Console						_ 8 ×
(intel) Intel® Activ	e System Conso	ble				
Hardware Information	Connected To :					
- 📕 Home	Cache					
📠 Baseboard 🗽 Sensor Readings	ID	Туре	Size	Write Policy	Error Correction	
- J Cooling	Cache Memory 0	Unified	4096KB	Write Back	Single-bit ECC	
- 🤌 Power	Cache Memory 1	Data	64KB	Write Back	Single-bit ECC	
System Event Log	Cache Memory 2	Unified	512KB	Write Back	Single-bit ECC	
	Cache Memory 3	Instruction	64KB	Write Back	Single-bit ECC	
🥏 Storage						
Hardware Information						
BMC Configuration						
🏄 Start 🛛 🧭 🏉 🗍 🛄 Intel® Active	e System					4:37 PM

Figure 28 - Cache Information

3.1.11 Viewing Storage Information (Local Drive, Hard Drive, and CD/DVD Drive)

In the **Hardware Information** pane, click the **Storage** button to view information about logical drive, hard drive and CD ROM drive as shown in Figure 29.

Note: These instances are driven by the Windows* OS. No information about RAID controllers/instances is displayed.

Intel® Active System Console	e System	Console			
Hardware Information	Connected	l To :			
- 📕 Home	Logical Dr	ives			
📠 Baseboard	Volume	Туре	Size	Used	Available
- B Cooling	C:	NTFS	29.29GB	6.8GB	22.49GB
	F:	NTFS			
- 📄 System Event Log	Hard Driv	es			
- 🔌 Memory		Drive	Model	Size	Interface
Vache	\\.\PHYS	ICALDRIVEO	ST380013AS	74.53GB	IDE
- Storage					
	CD and D	VD Drives			
	Drive		Hardware		Media
	D:	Virtual CDROM US	B Device		CD-ROM
	E:	TSSTcorp CDDVD	W TS-L633A USB Dev	ice	CD-ROM
BMC Configuration					
🎒 Start 🛛 😥 🎯 🔰 🗍 Intel® Active	System				

Figure 29 – Storage Information window

3.1.12 Viewing Field Replacement Unit (FRU) Information

In the **Hardware Information** pane, click the **Storage** button to view FRU information as shown in Figure 30. For fields that are not populated in FRU, it shows as NA.

Intel® Active System Console	re System Con	isole					
Hardware Information	Connected To :						
- 📕 Home	FRU Data						
🚵 Baseboard 🚹 Sensor Readings	Device Name	Board ID	Entity	Manufacturer	Part Number	Board Product	Serial Number
	Baseboard	FRU Ver 0.03	0	Intel Corporation		S5520UR	
	Power Dist Board		21	NA	NA	NA	NA
🔜 Processor 💊 Cache	Pwr Supply 1 FRU		10	NA	NA	NA	NA
FRU Hardware Information							
BMC Configuration	e System						4:38 PM

Figure 30. Field Replacement Unit window

3.2 Configuring BMC

This section explains configuring the BMC. It details the options available in the BMC Configuration feature if the Intel® Active System Console.

In the left navigation pane, click the **BMC Configuration** button to view the BMC Configuration window as shown in Figure 31.

Intel® Active System Console	e System Co	onsole				
BMC Configuration	Connected To):				<u> </u>
- S LAN Channel - S User Password - S Boot Options	Channels Channet Number	Availability	Commands	IP Address	MAC Address	
🙍 Power Options 🖸 SOL Options	1	Always Available	Administrator	10.223.128.195	0-15-17-34- 7b-60	
	3	Always Available	Administrator	10.223.128.196	0-15-17-34- 7b-61	
	♥ Static IP Address Subnet Mask	User Privileges [1 [2	Administrator 0.223.128.195 55.255.255.192 IP Address] ; мл	AC Address	
	Default Gatewa	ay [1	0.223.128.253	0-12-7f-c	3-10-3f	· [
Hardware Information	Alternate Defa	uit Gateway [C hannel 3 N Communication	Always Available	µ-0-0-0	-U	
🛃 Start 🛛 😥 🎅 🔰 🗔 Intel® Active	e System	Hser Privilenes	Administrator 🔻	I		₹ 4:38 PM

Figure 31. Intel ® Active System Console BMC Configuration window

The BMC Configuration window has the following choices available:

- **LAN Channel**. Sets the LAN channel properties for the BMC. By default, BMC Configuration option opens in this window.
- User Password. Sets the BMC password for the null user
- Boot Options. Sets the boot device for the next reboot.
- Power Options. Sets the power restore options
- **SOL Options**. Sets the Serial Over LAN options

- Alerting. Sets the Alert destinations for email and traps.
- Node Manager. Configures node manager policies and actions
- System Console. Sets refresh intervals for health and alerts.

The configuration of different parameters in the BMC is as described in the following sections:

3.2.1 Configuring LAN

The LAN configuration page helps you configure the LAN channels of the BMC. You can set IP Address, Subnet Mask and Gateway Details. This needs to be set appropriately to enable Out-of-Band communication.

🐰 Intel® Active System Console						그 문 그
(intel [®] Intel [®] Active System Console						
BMC Configuration	Connected To	:				
LAN Channel	Channels					
- S User Password - S Boot Options	Channel Number	Availability	Commands	IP Address	MAC Address	
- g Power Options - G SOL Options - M Alerting	1	Always Available	Administrator	10.223.128.195	0-15-17-34- 7b-60	
- 🧱 Node Manager	з	Always Available	Administrator	10.223.128.196	0-15-17-34- 7b-61	
	LAN Settings - CH LAN Static IP Address Subnet Mask	Nannel 1 N Communication User Privileges 1 2	Always Available Administrator 0.223.128.195 255.255.255.192]		
	Defeult Ceteur		IP Address	M/	C Address	
	Alternate Defau	y 🛄 ult Gateway 🖸	1.0.0.0	0-0-0-0	-0	
HardwareInformation	Apply					
BMC Configuration	LAN Settings - Ch	nannel 3 N Communication	Always Available			
👌 Start 🛛 📴 🧶 🗍 🛄 Intel® Active	: System	User Privilenes	Administrator 💌	1		4:38 PM

Figure 32 - LAN Configuration window

3.2.2 Configuring User Password

In the **BMC Configuration** pane, click the **User Password** button to open the BMC User Password window as shown in Figure 33.

Note: This does not alter passwords of Windows* or BIOS.

Intel® Active System Console	ctive System Console	
BMC Configuration	Connected To : BMC Password New Password Confirm Password Apply Note: Length of Password should be between 1 and 16 Characters This sets the null user (User Id 1) password only.	
Hardware Information	Active System	4:39 PM

Figure 33 - BMC User Password Configuration window

3.2.3 Configuring Boot Options

In the **BMC Configuration** pane, click the **Boot Options** button to open the Boot Configuration window as shown in Figure 34.

Note: Boot Options configuration is a permanent setting and must be done carefully. It can be modified *only* by re-setting the boot option using the application.

Intel® Active System Console	ve System Console	_ 7 ×
BMC Configuration	Connected To :	
LAN Channel User Password Boot Options Dour Options SOL Options Alerting Mode Manager System Console	Connected To : Boot Configuration on Apply, the settings will be applied permanently © Boot to Forced PXE © Boot to Forced PXE © Boot to CD/DVD Apply Apply	
BMC Configuration		4.00 FM
🕂 Start 😰 🈹 🗍 Intel® Active	e System	4:39 PM

Figure 34 – Configuring BMC Boot Options

3.2.4 Configuring Power Restore Options

The power restore options indicate the platform action needed when the power is restored.

In the **BMC Configuration** pane, click the **Power Options** button to open the Power Configuration window as shown in Figure 35.

Intel® Active System Console	e System Console	
BMC Configuration	Connected To :	
 LAN Channel Suser Password Boot Options Sol. Options Alerting Hode Manager System Console 	Power Configuration © Server stays powered off when power is restored © Server is restored to the state it was in when power was lost © Server always powers up when power is restored Apply	
Hardware Information		
BMC Configuration		
🏄 Start 📗 😥 🥭 👘 🗍 🛄 Intel® Active	e System	4:39 PM

Figure 35 – Configuring BMC Power Restore window

3.2.5 Configuring Serial Over LAN (SOL)

In the **BMC Configuration** pane, click the **SOL Options** button to open the SOL Configuration window as shown in Figure 36.

🐰 Intel® Active System Console			
(intel) Intel® Active	e System Console		1
BMC Configuration	Connected To :		
 LAN Channel User Password Boot Options Power Options Sol_Options Herting Hode Manager System Console 	SOL Configuration SOL Settings - Channel 1 User Level Required to activate SOL Baud Rate Apply SOL Settings - Channel 3 User Level Required to activate SOL Baud Rate Apply	Administrator V 19200 V User V 19200 V	
Hardware Information			
🛃 Start 🛛 🚱 🦽 🗍 🛄 Intel® Active	System		4:39 PM

Figure 36 - SOL Configuration Options

3.2.6 Configuring Alert Destinations

Alerts can be configured in IASC.

In the **BMC Configuration** pane, click the **Alerting** button to open the **Alert Configuration** window as shown in Figure 37. The channels and destination indices that can be configured on the system are also shown in the Figure 37.

Akt Channel Iser Password soot Options Sol. Options Sol. Options Sol. Options Sol. Options System Console I Alert Configuration				
OL Options lerting ode Manager ystem Console Channel Number Atert Destination IP Traps/En © 1 10.223.128.250 Traps © 1 10.223.128.224 Traps © 1 10.223.128.211 Traps © 1 10.223.128.211 Traps © 1 10.223.128.211 Traps © 1 10.223.128.211 Traps © 1 0.223.128.194 Traps © 1 0.00.0 Disabled	∎ Alert	Configuration		Edit Dis
ode Manager ystem Console © 1 10.223.128.250 Traps C 1 10.223.128.224 Traps C 1 10.223.128.211 Traps C 1 10.223.128.211 Traps C 1 10.223.128.194 Traps C 1 10.223.128.39 Traps C 1 0.00.0 Disabled		Channel Number	Alert Destination IP	Traps/Email
Image: state information C 1 10.223.128.224 Traps C 1 10.223.128.211 Traps C 1 10.223.128.194 Traps C 1 10.223.128.194 Traps C 1 0.023.132.39 Traps C 1 0.00.0 Disabled	o	L	10.223.128.250	Traps
Image: Constraint of the symbol of the sy	0	L	10.223.128.224	Traps
Image: Second	0	1	10.223.128.211	Traps
Image: Property of the system Im	0	1	10.223.128.194	Traps
C 1 0.0.0 Disabled	0	1	10.223.132.39	Traps
Image: Construction of the system Image: Construction of the system Disabled <	0	1	0.0.0.0	Disabled
Image: Constraint of the system Image: Constraint of the system Disabled D	0	1	0.0.0.0	Disabled
O 1 0.0.0 Disabled	0	1	0.0.0.0	Disabled
Image: Column and Col	0	1	0.0.0.0	Disabled
C 1 0.0.0 Disabled Bardware Information 0 1 0.0.0.0 Disabled	0	1	0.0.0.0	Disabled
Hardware Information C 1 0.0.0.0 Disabled	0	1	0.0.0.0	Disabled
	• • •	1	0.0.0.0	Disabled
O 1 U.U.U Disabled	- o :	1	0.0.0.0	Disabled
			Channel Number © 1 © 1 © 1 © 1 © 1 © 1 © 1 © 1 © 1 © 1 © 1 © 1 © 1 © 1 © 1 © 1 © 1 © 1	Channel Number Alert Destination IP © 1 10.223.128.250 © 1 10.223.128.224 © 1 10.223.128.211 © 1 10.223.128.194 © 1 10.223.128.394 © 1 0.00.00 © 1 0.00.00 © 1 0.00.00 © 1 0.00.00 © 1 0.00.00 © 1 0.00.00 © 1 0.00.00 © 1 0.00.00 © 1 0.00.00

Figure 37 - Alert Configuration

To edit a particular destination, select the destination and click on **Edit** button to view the Alert Destination Parameters window as shown in Figure 38.

	live System Co			
LAN Channel User Password Boot Options	E Alert Conf	Edit Alert Destination Parameters Alert Destination Parameters	;	
Power Options SOL Options		Name	∀alue	1t Disable
Alerting		C Enable Email Alerts	Enable Traps	ps/Email
Node Manager System Console	· 1	Destination IP	10.223.128.250	
		Email: Sender Machine Name	URBANNA	
		Email: From Address		
		Email: To Address		_
		Email: User Name		_
		Email: Baceword		
	0 1			
	0 1	Email: Subject		
	0 1		Apply	Cancel
	C 1	■ Supported Alerts		
di Hardware Information	C		,	0120100
BMC Configuration	0 1			Disabled

Figure 38- Configuring Alerts: Editing Destination IP

- **Enabling Traps**: To configure Traps, select the **Enable Traps** option, enter the destination IP and click on the **Apply** button shown in Figure 38. Saving the changes will generate all the alerts supported by the system including Node Manager alerts.
- Enabling Email Alerts: To configure Email Alerts, select the Enable Email Alerts option, and enter the fields in the window shown in Figure 39. Click on the Apply button to save the changes. All alerts supported by the system will be generated and sent as email to the "To" address mentioned. The user name and password is optional for Tylersberg platforms and these credentials are that of the exchange server. Note: Supported alerts are not configurable in this release.

Intel® Active System Console	e System Co	onsole		× 8 =
BMC Configuration	Connected To			▲
3-3 LAN Channel 🕜 User Password 🧭 Boot Options	크 Alert Conf	Edit Alert Destination Parameters Alert Destination Parameters		it Disable
- 🚋 Power Options - 🐼 SOL Options		Name	Value	a dama si anti
- 🏦 Alerting - 🔚 Node Manager	6 1		C Enable Traps	DSYEMATC
System Console		Exchange Server IP	10.223.128.250	
		Email: Sender Machine Name	URBANNA	
		Email: From Address	abcd@xyz.com	
	C 1	Email: To Address	xyz@abcd.com	
	C 1	Email: User Name	admin	
	C 1	Email: Password	•••	
	C 1	Email: Subject	Alerts	
	C 1			
	C 1	I Supported Alerts	Apply	Cancel
	C 1	a Supported Alerta		
📕 Hardware Information	O 1			
	0 1	0.0.010		Cibabica
BMC Configuration	0 1	0.0.0.0		Disabled
🟄 Start 🗍 😥 🈹 🛛 🔲 🔤 Intel® Activ	e System			4:41 PM

Figure 39 – Configuring Alerts - Editing Email Parameters (1)

3.2.7 Configuring Node Manager Policies

You can use IASC to configure Node Manager Policies. The current set parameters of Node Manager are shown in Node Manager Statistics. If the system does not support PMBUS power supplies, then the value of the readings is 0 and configuration of policies is not allowed. Node manager statistics is available as part of power page.

Note: You must refer to the statistics shown in the power supply page and then carefully create policies. Else, performance can be affected. The readings of the system will vary based on the configuration and hence policy settings have to be done appropriately

Node manager policies configured on a system can be downloaded in the form of an XML file to a client computer. This file can be imported to the Power manager UI to apply to a group of servers.

 In the BMC Configuration pane, click the Node Manager button. Before the Node Manager Configuration window opens, a Warning appears as shown in Figure 40. Click Continue to open the Node Manager Configuration window as shown Figure 41. You can configure node manager policies using the Add, Edit, Disable, or Delete buttons. Note: Node Manager Policies can be disabled globally by de-selecting the Enable Node Manager Policies checkbox.

Intel® Active System Console	e System Console
BMC Configuration	Connected To :
IAN Channel Iser Password Boot Options Power Options Iser Password Is	Warning: Improper use of Node Manager Feature may impact your system in unknown way. Please read the enclosed Node Manager document for more information. Continue
Hardware Information	
🗾 Start 🗍 🧭 🖉 🗍 Intel® Activ	e System 4:41 PM

Figure 40 - Node Manager Configuration – Warning Message

Intel® Active System Console								
BMC Configuration	Connected To :							
LAN Channel User Password G Boot Options M Power Options	Node I E	e Man	ager Configura	ation				
SOL Options				Policies	Policies			
- 🚰 Node Manager 🔄 System Console					Export To File	Add Edit	Disable Delete	
		ID	Power Limit (Watts)	Start Time (HH:MM:AM/PM)	End Time (HH:MM:AM/PM)	Recurrence	Alert Action	
	o	4	400	01:00:AM	04:00:AM	Sunday	Send Alert	
Hardware Information								
Bit Configuration Bit C	System						4:42 PM	

Figure 41 - Node Manager Configuration window

Adding a New Policy. To add a new policy, click the Add button. The Add New Policy dialog displays as shown in Figure 42.

Intel® Active System Console	ve System (Console		
BMC Configuration	Connected Node Mana Enable Nor Control (1) Control (1)	To : ager Configuration de Manager Policies Add New Policy New Policy New Policy Name Policy Active Power Limit (Watts) Start Time (HH: MM:AM/PM) End Time (HH: MM:AM/PM) Recurrence	Value © Enable C Disable 500 06 V 00 V AM V 06 V 00 V PM V C All Days © Selected Day M V	Delete t Action d Alert
Hardware Information	ive System	Alert Action On Apply, the policy will be saved on the system does not shut down.	Send Alert W Apply Sa Su BMC. Power limits have to be set appropriately to o	Cancel insure that

Figure 42 – Configuring Node Manager - Adding New Policy

Editing a Policy. To edit a policy, select the policy and click on **Edit** button. The following window appears.

🐰 Intel® Active System Console _ 8 × Intel[®] Active System Console (intel) **BMC Configuration** 🔤 LAN Channel - 🐼 User Password - 🛃 Boot Options 🗹 Enable 💧 Power Options Edit Policy - 🙍 SOL Options Edit Policy 🐮 Alerting 🔚 Node Manager 🔚 System Console Name Value Policy Active € Enable C Disable
 400 Power Limit (Watts) Start Time (HH:MM:AM/PM) 01 💌 00 💌 AM 💌 04 💌 00 💌 AM 💌 End Time (HH:MM:AM/PM) Recurrence ○ All Days ⓒ Selected Day Su 💌 Send Alert Alert Action Apply Cancel On Apply, the policy will be saved on the BMC. Power limits have to be set appropriately to ensure that system does not shut down. Hardware Information BMC Configuration • 🏂 Start 🛛 📴 🥭 Intel® Active System... 4:42 PM

(To **disable a policy**, click on the **Disable** button. Disabled policies are shown in different color.)

Figure 43 – Configuring Node Manager - Editing Policy

🐰 Intel® Active System Consol _ 8 × Intel[®] Active System Console (intel) **BMC Configuration** Connected To : 🔍 LAN Channel Node Manager Configuration 🛛 🜆 User Password Boot Options 🗹 Enable Node Manager Policies 🛓 Power Options SOL Options Policies 🐮 Alerting Export To File Add Edit Disable Delete 🔚 Node Manager 📄 System Console Power Limit (Watts) Start Time (HH:MM:AM/PM) End Time Recurrence Alert Action ID (HH:MM:AM/PM) \odot 4 400 01:00:AM 04:00:AM Sunday Send Alert ft Internet Explorer × ?) If you click Ok, the policy will be deleted. Do you want to continue? OK Cancel Hardware Information BMC Configuration 🏄 Start 🛛 📴 Intel® Active System... 4:43 PM

Deleting a Policy. To delete a policy, select the policy and click the Delete button.

Figure 44 - Configuring Node Manager - Deleting Policy

3.2.8 Configuring Refresh and SEL Alerts Interval

The health refresh interval and SEL alerts refresh interval can be configured using the console UI. In the BMC Configuration pane, click the System Console button to view the IASC Console Settings window as shown in Figure 45. After configuration, click the **Apply** button to save the changes.

(intel® Active System Console							
BMC Configuration	Connected To :						
	IASC Console Settings						
🖸 Boot Options 🚊 Power Options	Refresh Interval 600 seconds						
🛃 SOL Options 🏦 Alerting	SEL Alerts Interval 600 seconds						
🔚 Node Manager 📰 System Console	Apply						
Hardware Information							
BMC Configuration							

Figure 45. Configuring IASC settings