

User Manual

IPMI-1000

IPMI-1000 Module, AST2300 Chipset



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We want you to get the maximum performance from your products. So if you run into technical difficulties, we are here to help. For the most frequently asked questions, you can easily find answers in your product documentation. These answers are normally a lot more detailed than the ones we can give over the phone. So please consult this manual first. If you still cannot find the answer, gather all the information or questions that apply to your problem, and with the product close at hand, call your dealer. Our dealers are well trained and ready to give you the support you need to get the most from your Advantech products. In fact, most problems reported are minor and are able to be easily solved over the phone. In addition, free technical support is available from Advantech engineers every business day. We are always ready to give advice on application requirements or specific

information on the installation and operation of any of our products.

Initial Inspection

Before you begin installing your motherboard, please make sure that the following materials have been shipped:

IPMI-1000 module	X 1	
Startup manual	X 1	P/N: 20061IPM100
Screws	X 2	P/N: 19350304A0
Warranty Card	X 1	P/N: 2190000902
VGA cable	X 1	P/N: 1700020950-01

If any of these items are missing or damaged, contact your distributor or sales representative immediately. We have carefully inspected the IPMI-1000 mechanically and electrically before shipment. It should be free of marks and scratches and in perfect working order upon receipt. As you unpack the IPMI-1000, check it for signs of shipping damage. (For example, damaged box, scratches, dents, etc.) If it is damaged or it fails to meet the specifications, notify our service department or your local sales representative immediately. Also notify the carrier. Retain the shipping carton and packing material for inspection by the carrier. After inspection, we will make arrangements to repair or replace the unit.

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Hardware Configuration

1.1 Introduction

IPMI-1000 is a proprietary form-factor module which is designed with Aspeed AST2300 for remote management purposes. Also, IPMI-1000 is fully compliant with IPMI 2.0 specification.

1.2 Specifications

- Chipset AST2300
- Compliant with IPMI 2.0
- VGA output
- KVM over IP

1.3 Connectors

There are four connectors on the module and one of them is used to connect with SBC. The below table lists the functions of these connectors.

Table 1.1: Connectors	
Label	Function
BMC1	IPMI connector
VGA1	VGA1 connector
MRCROSD1	Local media device
IPMB	Reserved

1.4 Board Layout: Connector Locations



Figure 1.1 IPMI-1000 Top Side Board Layout



Figure 1.2 IPMI-1000 Bottom Side Board Layout

IPMI-1000 User Manual



Setup

2.1 Introduction

Please follow the H/W, BIOS & LAN setting shown below to properly setup the IPMI-1000.

2.2 H/W setting

1. The IPMI-1000 module should be carefully placed on BMC1 (2 x 50 connector), Once BMC is active, an LED indicator will be blinking.



Figure 2.1 Assembling Module

2. Align the screw holes, and securely fasten with the screws.



Figure 2.2 Fastening the Screws

2.3 BIOS Settings

Once IPMI-1000 module has been connected to SBC, the BIOS will show a "Server Mgmt" section automatically. Server Mgmt is used to modify the settings of IPMI-1000.

2.3.1 BMC Support

Default is [Enable]; Set [Disable] if you don't need the BMC function.

2.3.2 Wait For BMC

Default is [Enable]; Set [Disable] to boot up without waiting for IPMI-1000 ready.

2.3.3 Wait For BMC Counter

Default is [6 Times]; BMC counter sets waiting time for BMC self test complete, the time per counter is 5 seconds.

2.3.4 BMC Self Test Log

This page erases/clears the settings of the BMC self test log.

2.3.5 System Event Log

Default is [Disable]; Set [Enable] for System Event log during boot.

2.3.6 BMC Network Configuration

Default setting is below:

There are three types of Address source.

- Unspecified: Use default IP setting
- Static: Use custom assigned IP setting such as IP address & Subnet mask
- Dynamic: Use IP address dynamically assigned from your server board

2.4 LAN Settings

Please connect your host computer to the MB/SBC LAN which supports the IPMI interface (please refer to MB/SBC specifications for details); the host LAN configuration is required to be on the same segment as the IPMI-1000.

Example:

- IPMI-1000
 IP: 192.168.0.1
 Subnet mask: 255.255.255.0
- Host computer
 IP: 192.168.0.50
 Subnet mask: 255.255.255.0



Figure 2.3 Example of PCE-5126WG2



Graphic User Interface (GUI)

3.1 Login Page

To Login to the Graphics User Interface (GUI) of the IPMI-1000, open an Internet browser and connect to the IP address for the IPMI-1000. The login page will show as on the following screen.

Default user name and password

Username: admin Password: admin

Note! - Before starting, Java must be installed to use the remote control.



- Compliant with Windows Internet Explorer only.

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	Username: admin Password: Login	
	Required Browser Settings 1. Allow populs from this site 2. Allow the downtaid from this site. (New to 3. Enable javascript for this site 4. Enable cookies for this site 3.	

Figure 3.1 Login Page

3.2 Dashboard

The Dashboard page gives overall information about the status of a device. To open the Dashboard page, click Dashboard from the main menu. A sample screen shot of the Dashboard page is shown below.



Figure 3.2 Dashboard

3.2.1 **Device Information**

The Device Information displays the following information.

- Firmware Revision
- Firmware Build Time

3.2.2 Network Information

The Network Information of the device is shown here.

3.2.3 Remote Control

- To redirect the host remotely, launch Java Console from this section.
- Click Launch to launch the console redirection and to manage the remote server.
- The console preview of the remote server using java application can be viewed under this section. Click on Refresh button to reload the console preview.

3.2.4 Sensor Monitoring

Lists all the available sensors on the device with the following information: <u>Status: The status column displays the state of the device. There are three</u> <u>states.</u>

- : Denotes normal state
- 🔺 : Denotes Warning State
- : Denotes Critical State

3.3 Server Health

The Server Health consists of Sensor Readings, Event Log and System and Audit Log.

3.3.1 Sensor Readings

This page displays all the sensor information.

- Sensor Type: Select the type of sensor and list sensors with the Sensor Name, Status and Current Reading will be displayed.
- Live Widget: Click On or Off makes the widget appear or disappear. Gives a dynamic representation of the reading of sensor.

	ver Health Remote Control	Configuration Auto Video Re	cording Maintenance	• admin(Administrator) C Refresh	10 Print 1
Sensor Read	lings				
I sensor related info	ormation will be displayed here. Dou	ble dick on a record to toggte (ON / OFF)	the live widget for that particular sensor.		
All Sensors				Sensor Co	ount: 12 sensor
Sensor Name 🔺	Statur 4	Current Reading A			
+3.3V	Normal	3.3 Volts	+2 21/2 2 2 Malta		NORMAL
+5V	Normal	5.15 Volts	+3.3V: 3.3 VOID		HURMAN
+12V	Normal	12 Volts	Thresholds for this sensor	Live Wip	GET ON LOFF
5VS8	Normal	5 Volts			
CPU1_VCORE	Normal	0.599 Volts	Lower Non-Recoverable (LNR): 2,639 Volts	Upper Non-Recoverable (UNR):	3.959 Volts
VBAT	Normal	3.3 Volts	Lower Critical (LC): 2.97 Volts	Upper Critical (UC)	3.629 Volts
CPU1_TEMP	Normal	24 ° C	Lower Non-Critical (LNC): 0 Volts	Upper Non-Critical (UNC)	0 Volts
CPU1_FAN_IN	Normal	6000 RPM			
Watchdog	All deasserted	0x8000			
SEL_Logging	All deasserted	0x8000	Graphical View of this sensor's events		
case_intrusion	All deassented	08000			
riatormeen.	All deasserted	088000	INP (0)		
			0		
iu.			rc (0)		
Line Deadlant	2 Malla		INC (0)		
Live reading:	a.a.vons		010 (0)		
959			UNR (0)		
695			10		
431			0, (0)		
167 -			UNC (0)		
903					
.639			Other (0)		
5 6 3 3	0 1 0				

Figure 3.3 Server Health - Sensor Readings Page

3.3.2 Event Log

This page displays a log of all events logs that have occurred from the different device sensors. Using filter options to view the specific events.

- BMC Timezone: displaying the BMC UTC Offset timestamp value of the events
- Client Timezone: displaying the events of Client UTC Offset timestamp.
- Clear All Event Logs: To delete all existing records.

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ashboard	FRU Information	Server Health	Configuration	Remote Control	Auto Video Recording	Maintenance	€admin)A	dminustrator) C Refresh 🕏 Print 💌 Lo
vent Lo	ed by the system will be	Ewent Log System and Aud	It Log K on a record to	o see description				
vents generation	ed by the system will be	Ewint Log System and Aud	n Log k on a record to filter by: All Sensors	o see description s				Event Log: 2 event entries
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Clear All Event Logs

Figure 3.4 Server Health - Event Log Page

3.3.3 System & Audit Log

Displays all system and audit events.

- System Log: To view all system events.
- Audit Log: To view all audit events.

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Dashboard Server H	ealth Remote Control	Configuration Auto Video Recording	g Maintonance HEL
System & Audit	Logs		
This page displays logs of	system and audit events for thi	is device (if the options have been configured).	
System Log	Audit Log		UTC Offset: (GMT+/-0)
Filter by: Information	1.		This Filter: 29 event entries
Event 10 A	Time Stamp 1	HostName	Description A
1	Mar 7 10:35:30	AM005544556633	t syslogd 1.5.0#6: restart.
2	Mar 7 10:35:30	AM005544556633	sshd(823) Server listening on 0.0.0 port 22.
3	Mar 7 10:35:30	AMI005544556633	sshd(823) Server listening on - port 22.
4	Mar 7 10:35:31	AMI005544556633	ntpd(847): Listen and drop on 0 v4wildcard 0.0.0 UDP 123
5	Mar 7 10:35:31	AMI005544556633	ntpd(847): Listen and drop on 1 v6wildcard - UDP 123
6	Mar 7 10:35:31	AMI005544556633	ntpd(847): Listen normally on 2 to 127.0.0.1 UDP 123
7	Mar 7 10:35:31	AMI005544556633	ntpd(847): Listen normally on 3 eth0 192 168.0 1 UDP 123
8	Mar 7 10:35:31	AM005544556633	http://www.commaily.or.4.10.00.1000.000
9	Mar 7 10:35:31	AMI005544556633	ntpd(947): Listen normally on 5 eth0 fe80::255:44tt fe55:6633 UDP 123
10	Mar 7 10:35:31	AMI005544556633	intpd(847): Deferring DNS for pool.ntp.org 1
11	Mar 7 10:35:31	AMI005544556633	httpd(947): Deferring DNS for time nist.gov 1
12	Mar 7 10:35:33	AMI005544556633	ntpd_intres(951): parent died before we finished, exting
13	Mar 7 10:35:37	AMI005544556633	Ausr/sbin/cron(990); (CRON) INFO (pidfile fd = 3)
14	Mar 7 10:35:37	AMI005544556633	i Just/sbin/cron(991): (CRON) STARTUP (fork ok)
15	Mar 7 10:35:38	AMI005544556633	cron(991): [991 INFO]4 GetReqUser Info Failed for user 0
15	Mar 7 10:35:38	AMI005544556633	/usr/sbin/cron(991) (*system*) ERROR (Syntax error, this crontab file will be ignored)
17	Mar 7 10:35:30	AMI005544556633	Aust/sbin/cron(991) (CRON) INFO (Running @reboot jobs)
18	Mar 7 09:55:00	AMI005544556633	webgo: [536 INFO]user is admin user access is 4

Figure 3.5 Server Health - System & Audit Page

3.4 Configuration

Allows you to access various configuration settings.

3.4.1 Active Directory

Active directory is a directory structure used on Microsoft Windows-based computers and servers to store information and data about networks and domains. Its functions include the ability to provide information on objects, helping to organize these objects for easy retrieval and access, allowing access by end users and administrators and allowing administrator to set up security for the directory.

- Advanced Settings: Options are Enable Active Directory Authentication, User Domain Name, Time Out, and up to three Domain Controller Server Addresses.
- Active Directory Authentication: Enable by clicking "Enable" checkbox.
- User Domain name: Specify the Domain Name for the user.
- Time Out: Specify the time to wait for Active Directory queries.

Note! Default Time out 120 seconds; Range from 15 to 300 seconds.



Domain Controller Server Addresses: Configure IP addresses in these areas.

Note! At least one Domain Controller Server Address must be configured.



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hboard Server Health Remote Control Configuration A	uto Video Recording Maintenance	HE
ctive Directory Settings		
		Advanced Settings
s 'Active Directory' is currently disabled. To enable Active Directory and configure	its settings. Click on 'Advanced Settings' button.	Advanced Settings
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Figure 3.6 Configuration - Active Directory Page

3.4.2 **DNS**

The Domain Name System (DNS) is a distributed hierarchical naming system for computers, services, or any resource connected to the internet or a private network. It associates the information with domain names assigned to each of the participants. Also, it translates domain names meaningful to humans into the numerical (binary) identifiers associated with networking equipment for the purpose of locating and addressing these devices worldwide.

- Host Configuration:
 - Host Setting: Choose either Automatic or Manual.
 - Host Name: If host setting is "Manual" then specify the hostname.
- Register BMC: Register BMC either through Direct Dynamic DNS or DHCP Client FQDN.
- Domain Name Configuration:
 - Domain Setting: Lists the option for domain interface as "Manual", "v4" or "v6" for multiLAN channels.
 - Domain Name: Choose "Manual", then specify the domain name of device.
- IPv4 Domain Name Server Configuration
 - DNS Server Settings: Choose either "Manual" or "available LAN interface".
 - Preferred DNS Server: Configure the DNS server v4 address.
 - Alternate DNS Server: Configure the DNS server v4 address.
- IPv6 Domain Name Server Configuration
 - DNS Server Settings: Choose either "Manual" or "available LAN interface".
 - Preferred DNS Server: Configure the DNS server v6 address.
 - Alternate DNS Server: Configure the DNS server v6 address.

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DNS Ser	ver Settings					
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Host Configura	ation					
Host Setti	ngs	Automal	ic 🔹			
Host Nam	e	AMID055	44555620			
Register BMC						
eth0		Regis	iter BMC red Dynamic DNS	DHCP Client FQDN		
Domain Name	Configuration					
Domain S	ettings					
Domain N	ame					
IPv4 Domain N	ame Server Configur	ation				
DNS Serve	er Settings		•			
Preferred	DNS Server	0.0.0.0				
Alternate	DNS Server	0.0.0.0				
IPv6 Domain N	ame Server Configur	ation				
DNS Serve	er Settings	eth0				
Preferred	DNS Server					

Figure 3.7 Configuration - DNS Page

3.4.3 LDAP

The Lightweight Directory Access Protocol (LDAP) is an application protocol for querying and modifying data of directory services implemented in Internet Protocol (IP) networks.

Advanced LDAP Settings: To configure the settings:

- LDAP Authentication: Enable by clicking "Enable" checkbox
- IP Address: Enter the IP address
- Port: Specify the LDAP port





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AP is currently disabled. To en e list below shows the current i d Role Group.	able LDAP and configure its settings. Click on 'Advanced Sk list of configured Role Groups. If you would like to detete or	ettings' button. modify a role group, select the name in the list and press Delete Role Group or Mo	Advanced Setting dly Role Group. To add a new Role Group, select an unconfigured slot and press Naumber of comfigures Role groups
IAP is currently disabled. To en e list below shows the current id Role Group. Role Group ID -1	able LDAP and configure its settings. Click on Advanced S Ist of configured Role Groups. If you would like to delete or Group Name	etings' button modify a role group, select the name in the list and press Delete Role Group or Mo Group Search Base - এ	Advanced Setting dfy Role Group, To add a new Role Group, select an uncomfigured alot and pres Number of configured Role groups Occup Phyloge
AP is currently disabled. To en e list below shows the current d Role Group. Role Group ID _4 1	able LDAP and configure its settings. Click on 'Advanced S list of configured Role Groups. If you would like to delete or Group Hame:	etings' bution. modify a role group, select the name in the fist and press Delete Role Group or Mo Group Search Rasen 3	Advanced Setting Sfr Role Group. To add a new Role Group, select an unconfigured slot and press Number of configures Role groups Group Privaling Tusk
AP is currently disabled. To en e list below shows the current d Role Group. Role Group ID _3. 1 2	able LDAP and configure its settings. Click on 'Advanced S list of configured Role Groups. If you would like to detete or Group Hanne	ettings' bution. motify a role group, select the name in the list and press Delete Role Group or Mo Group Search Base _3	Advanced Setting Sty Role Group, To add a new Role Group, select an uncomfigured slot and pres Number of configure Role groups Group Privilege
AP is currently disabled. To en e list below shows the current id Role Group. Role Group. 1 2 3	able LDAP and configure its settings. Click on V-dranced S list of configured Role Groups. If you would like to delete or Group Hanne	etings' bution. modify a role group, select the name in the fist and press Delete Role Group or Mo Group Search Race - 3 ~ ~	Advanced Setting Afr Role Group. To add a new Role Group, select an unconfigured slot and pres Number of configured Role groups Group Printing
AP is currently disabled. To en list below shows the current if Role Group. Role Group. 10 1 2 3 4	able LDAP and configure its settings. Click on 'Advanced S list of configured Role Groups. If you would like to delete or Group Name 3. - - - - -	etings' bution. modify a role group, select the name in the list and press Delete Role Group or Mo Group Snarch Rase _3 ~ ~ ~ ~	Advanced Setting dly Role Group. To add a new Role Group, select an unconfigured slot and pres Number of configured Role group: <u>Group Phyliop</u>

Figure 3.8 Configuration - LDAP Page

3.4.4 Local Media

Displays the list of available images in the local media on BMC. You are allowed to replace or add new images from here. To configure the image, you need to enable Local Media support under Configuration -> Virtual Media.



Only administrator can change local media.



Each image type supports one image upload.

Maximum upload size is 8 MB.

MEGARA	C °					American Megatrends
Dashboard S	Server Health Remote Control	Configuration	Auto Video Recording	Maintenance	• admin (Associa	itistor) C Refresh 🕴 Print 🛸 Logout HELP
Local Medi Below is a list of a to delete the imag	ia available images on the local media o se.	n the BMC. Select a em	nply record and press the "Add	mage" lo upload a new image on the BMC. Select a record and p	ess the "Replace Image " button to overw	rille the existing image or "Delete Image"
						Number of available images: 0
1 1		image Type 🔺		Image Name A	Image	information -
1		Floppy				*
2		CD/D//D		~		~
.3		Harddisk		S.		-
					And Image	Replace Image Delete Image

Figure 3.9 Configuration - Local Media Page

3.4.5 Mouse Mode

Configure mouse mode based on different OS.

Absolute Mode:

The absolute position of the local mouse is sent to the server. (Recommended when server OS is Windows)

Relative Mode:

Relative mode sends the calculated relative mouse position displacement to the server. (Recommended when server OS is Linux)

MEGARAC	American
	+ admin(Administrator) C Refresh 🕴 Print - Logout
Dashboard Server Health Remote Control Configuration Auto Video Recording Maintenance	HELP
Mouse Mode Settings	
Redirection console mouse mode settings can be modified here.	
The current Mouse Mode is ABSOLUTE.	
Set Mode to Absolute (Recommended when server OS is Windows)	
Set Mode to Relative (Recommended when server OS is Linux)	

Save Reset

Figure 3.10 Configuration - Mouse Mode Page

3.4.6 NCSI

Displays the configuration settings of the Network Controller Sideband Interface (NCSI).

- NCSI Interface: Lists the interface name in list box.
- Channel Number: Lists the channel number of the selected interface.
- Package ID: Lists the package id of the selected interface.

MEGAR	AC					American Megatrends
_	_	_				+ admin(Administrator) C Refresh 🔮 Print 🥔 Lopout
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Mainténance	HELP
NCSI Sett	tings					
The following op	tions are to configu	re channel number an	d package ID informa	tion for the NCSI interface.		
WC SI Intern	ice	ethic III	17			
Channel No	moer	u. =				
Package ID		0. +				



3.4.7 Network

Used to configure the network settings for the available LAN channels.

- LAN Interface: Lists the LAN interfaces.
- LAN Settings: Enable or disable the LAN Settings.
- MAC Address: Read only field for MAC address of the device.
- IPv4 Configuration:
 - Obtain an IP address automatically:
 - Dynamically configure IPv4 using DHCP.
 - IPv4 Address, Subnet Mask and Default Gateway: Specify static IPv4 address, Subnet Mask and Default Gateway to be configured to the device.
- IPv6 Configuration:
 - IPv6 Setting:
 - Enable IPv6 setting.
 - Obtain an IPv6 address automatically: Dynamically configure IPv6 address using DHCP.
 - IPv6 Address:
 - Specify a static IPv6 address to be configured to the device.
 - Subnet Prefix length:
 Specify the subnet prefix length for the IPv6 settings.
 - Default Gateway:
 - Specify IPv6 default gateway for the IPv6 settings.
 - VLAN Configuration:
 - VLAN Settings: Enable/disable the VLAN support for selected interface.
 - VLAN ID:

- Identification for VLAN configuration. (Ranges from 1 to 4095)
- VLAN Priority:
 Priority for VLAN configuration. (Ranges from 1 to 7; 7 is highest priority)

MEGARAC		American
		+ admin(Administrator) C Refresh 🕸 Print 🥌 Logout
Dashboard Server Health Remote (ontrol Configuration Auto Viduo Recording Maintanance	HELP
Network Settings		-
Manage network settings of the device.		
LAN Interface	eth0	
LAN Settings	2 Enable	
MAC Address	00:55:44:55:66:33	
IPv4 Configuration		
Obtain an IP address automatically	Use DHCP	
IPv4 Address	192, 166, 0, 1	
Subnet Mask	255 255 256 0	
Default Gateway	0.0.0.0	
IPv6 Configuration		
IPv6 Settings	2 Enable	
Obtain an IP address automatically	V Use DHCP	
IPv6 Address		
Subnet Prefix length	64	
Default Gateway		
VLAN Configuration		
VLAN Settings	Enable	



3.4.8 NTP

The Network Time Protocol (NTP) is a protocol for synchronizing the clocks of computer systems over packet-switched, variable-latency data networks.

- Date: Specify the current date.
 Time:
- Time: Specify the current time.
- UTC Timezone: Display the local time zone offset.
- NTP Server: Specify the NTP Server
- Automatically synchronize: Synchronize Date and Time automatically with the NTP Server.

MEGARAC	L.	American Megatrends
Dashboard Serv	er Health Remote Configuration Auto Video Recording Maintenance	🕯 admin(Administrator) C Refresh 😒 Print 🌛 Logout HELF
NTP Setting	5	
Here you can either o	onligure the NTP server of view and modify the device's Date & Time settings.	
Date:	March + 7 + 2013 +	
Time: (hh:mm:ss)	10 46 27	
UTC Timezone:	(GMT+/-0) * Hour(s)	
NTP Server:	pool ntp org	
V Automatical	r synchronize Date & Time with NTP Server	
		Pafash Sma Pasat

Figure 3.13 Configuration - NTP page

3.4.9 PAM Order

Used to configure the Pluggable Authentication Module (PAM) ordering for user authentication in to the BMC.



Figure 3.14 Configuration - PAM Order Page

3.4.10 PEF

Platform Event Filtering (PEF) provides a mechanism for configuring the BMC to take selected actions on event messages that it receives or has internally generated. These actions include operations such as system power-off, system reset, as well as triggering the generation of an alert.

- Event Filter:
 - PEF ID:
 - Displays the ID for the newly configured PEF entry (read-only).
 - Filter Configuration:

Check box to enable the PEF settings.

- Event Filter Action:
 - Check box to enable PEF Alert action. This is a mandatory field.
- Event Severity:

Choose Event severity from the list.

- Sensor Name: Choose a particular sensor from the sensor list.
- Add:

Add a new event filter entry and return to Event filter list.

- Modify:
- Modify the existing entries.
- Cancel:

Cancel the modification and return to Event filter list.

- Alert Policy:
 - Policy entry #:
 - Displays Policy entry number for the newly configured entry (read-only).
 - Policy Number:

Displays the Policy number of the configuration.

Policy Configuration:

Enable or disable the policy settings.

- Policy Set:

Choose Policy set values from the list.

- LAN Destination:
 - LAN Destination:

Displays Destination number for the newly configured entry (read-only).

- Destination Type:

Destination type can be either an SNMP Trap or an Email alert. For Email alerts, the 3 fields "destination email address", "subject" and "body of the message" needs to be entered. The SMTP server information also has to be added under Configuration->SMTP. For SNMP Trap, only the destination IP address has to be filled.

Destination Address:

If Destination type is SNMP Trap, then enter the IP address of the system that will receive the alert. If Destination type is Email Alert, then give the email address that will receive the email.

Subject & Message:

These fields must be configured if email alert is chosen as destination type. An email will be sent to the configured email address if a severity event occurs; it will contain a subject in the subject field and the message field content of the event will be in the email body.

EGARAC					4	Amer Megati
board Server	Health Remote Control	Configuration	Auto Video Recording M	aintenance	 admin(Administrator) C Refresh 	h 🕄 Print 🦟
Managem	ent					
managem			13-20-00-07-07-07-07	and the formation of the second		
his page to configu	re Event Filter, Alert Policy and L	AN Destination. To dele	te or modify a entry, select it in the	list and press. "Delete" or "Modify". To add a new entry	, select an unconfigured slot and press "Add".	
C						
Event Filter	Alert Policy	LAN Destination				
					Configured Ev	ient Filter count
PEF ID ->	Fliter Contigue	Allos 2	Event Filler Act	ion A Event Sev	erity 1 Sensor Name 1	
1	Disabled	đ	[Alert]	Unspec	ified Any	
2	Enabled	1	[Abert]	Critic	at Arry	
3	Enabled	5	[Alert]	Cribo	I CPU1_TEMP	
4	Enabled	1	[Alert]	Critic	al CPU1_FAN_IN	
5	Enabled	1	[Alert]	Critic	al Platform4/ert	
6	Disabled	đ	(Alert)	Unspec	ified Any	
7	Disabled	d	[Alert]	Unspec	ified Any	
8	Disabled	d	[hiert]	Unspec	ified Any	
9	Disabled	d	(Alert)	Unspec	fied Any	
10	Disabled	d	[heat]	Unspec	ned Any	
11	Disabled	d	[Adent]	Unspec	ded Any	
12	Disabled	d	[heba]	Unspec	ned Any	
13	Disabled	d	[Alert]	Unspec	ned Any	
	Disabled	d	[Alen]	Unspec	fled Any	
14	Disables	d	[Alert]	Unspec	fied Any	
14 15	Uladueu					
14 15 16	Uisablec		~	*	*	

Figure 3.15 Configuration - PEF Page

3.4.11 RADIUS

RADIUS is a modular, high performance and feature-rich RADIUS suite including server, clients, development libraries and numerous additional RADIUS related utilities.

- RADIUS Authentication:
 Option to enable RADIUS authentication.
- Port: The RADIUS Port number.
 - Note! Default Port is 1812.



Time Out: The Time out value in seconds.

Note! Default is 3 seconds and ranges from 3 to 300.



- Server Address: The IP address of RADIUS server.
- Secret: The Authentication Secret for RADIUS server.

Note! This field will not allow more than 31 characters.



MEGARAC				America Megatrenc
lashboard Server Health	Remote Control Configuration	Auto Video Recording	Maintenance	admin(Administrator) C Refresh Ø Print Googe HE
ADIUS Settings				
ck the box below to enable RAD	US authentication and enter the required	information to access the RAD	IUS server. Press the Save button to save your changes.	
RADIUS Authentication	Enable			
Port	1812			
Time Out	2 seconds			
Server Address				
Secret				

Figure 3.16 Configuration - RADIUS Page

3.4.12 Remote Session

This section is to configure virtual media configuration settings for the next redirection session.

- KVM Encryption: Enable/Disable encryption on KVM data for the next redirection session.
- Media Encryption: Enable/Disable encryption on Media data for the next redirection session.
- Virtual Media Attach Mode: Two types of VM attach mode are available

MEGARAC				American
Dashboard Server Health	Remote Control	Configuration	Auto Video Recording Maintenance	🖡 admin(Administratory) 🗅 Refresh 🚯 Print 🐨 Logou HEL
Configure Remote S	ession			
The following options are to enable KVM Encryption	or disable encryption of	n KVM or Media dat	for the next redurection session.	
Media Encryption	Enable			
Virtual Media Attach Mode	Attach			
				Save Reset

Figure 3.17 Configuration - Remote Session Page

3.4.13 Services

This page displays the basic information about services running in the BMC. Only Administrator can modify the service.

MEGAR	CAC								America Megatrer
ashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Haintenanca			+ admin(Administrator)	C Refresh 🕏 Print - Log
ervices									
Services	of services running on t	the BMC. It shows o	urrent status and othe	er basic information about the	services. Select a sict a	nd press "Modily" button to modily	the services configuration.		Number of Services
Services elow is a list o	of services running on t	the BMC. It shows o	urrent status and othe	er basic information about the	services. Select a sict a	nd press "Modily" button to modily	the services configuration.	Timeout A	Number of Services
Services elow is a list o	of services running on t Service 1 wet	the BMC. It shows of Name	urrent status and othe Current S Adb	er basic information about the State A	services. Select a slot a Interfaces 4 eth0	nd press "Modily" button to modily Monsecure Port 3 80	the services configuration. Secure Port 3 443	Timeout 3 1800	Number of Services Maximum Sessions - 3 20
elow is a list o	of services running on t Service II wet Korr	the BMC. It shows o tome b n	urrent status and othe Current S Adb Adb	er basic information about the State A re ve	services. Select a slot a Interfaceus - A eth0 eth0	nd press "Modily" button to modify Nonsecure Port - 3 80 7578	the services configuration. Secure Port 3 443 7592	Timeout 3 1800	Number of Services Meximum Sessions - 3 20 2
ervices Now is a list of 1 2 3	i of services running on 1 <u>Service II</u> wet km cd-me	the BMC. It shows o lone → b n edia	urrent status and othe Corrents Adb Adb Adb	er basic information about the State (A) ve ve ve	services. Select a slot a Interfaceus - A eth0 eth0 eth0	nd press "Modily" button to modily Nonsecure Pott 3 00 7578 5120	the services configuration. Secure Port 3 443 7592 5124	Timeout 3 1800	Number of Services Maximem Sessions 3 20 2 1
ervices elow is a list of 1 2 3 4	i of services running on 1 <u>Service II</u> wet km cd-me fo-me	the BMC. It shows o leme	urrent status and othe Corrents Acti Acti Acti Acti Acti Acti	er basic information about the State ve ve ve	envices. Select a sist a eth0 eth0 eth0 eth0 eth0 eth0	nd press "Modify" buton to modify Nonsecure Port 00 7578 5120 5122	the services configuration.	Timeout 3 1800	Nember of Services Maximum Sessions 3 20 2 1 1



3.4.14 **SMTP**

Simple Mail Transfer Protocol (SMTP) is an Internet standard for electronic mail (email) transmission across Internet Protocol (IP) networks.

- LAN Channel Number: Displays the list of LAN channels available
- Sender Address: The 'Sender Address' valid on the SMTP Server.
- Machine Name: The 'Machine Name' of the SMTP Server.

Note! The maximum strings are 15 alpha-numeric characters.



- Primary SMTP Server: Lists the Primary SMTP Server configuration.
- Server Address: The 'IP address' of the SMTP Server. It is a mandatory field.

MEGARAG				American
Dashboard Server Health Remote C	ontrol Configuration	Auto Video Recordina	Maintepance	+ admin(Adminuture) ⊂ Refresh * Print - Logout HELP
SMTB Settings	Contraction of the local division of the			
SMTP Settings				
Manage SMTP settings of the device.				
Sender Address				
Machine Name				
Primary SMTP Server				
Server Address				
SMTP Server requires Authentication				
User Name				
Password				
Secondary SMTP Server				
Server Address				
SMTP Server requires Authentication				
User Name				
Password				

Figure 3.19 Configuration - SMTP Page

3.4.15 System and Audit Log

System and Audit log page displays a list of system and audit events that have been logged on this device.

MEGARAC		American Megatrends
Dashboard Server Health	Remote Centrol Configuration Auto Video Recording Maintenance	admin(Admonstrater) C Refreph & Print = Lopout HELP
System and Audit L	og Settings	
Enable and configure logging of s	stem events below. Or you can enableidisable logging of audit events. Press the Save button to save your changes.	
System Log	🗷 Enable	
Log Type	Local Log C Remote Log	
File Size (in bytes)	50000	
Rotate Count	0	
Server Address		
Audit Log	V Enable	

Save Reset

Figure 3.20 Configuration - System and Audit Log Page

3.4.16 Users

The User Management page allows you to view the current list of user slots for the server. You can add a new user and modify or delete the existing users.

MEGARAC					America
Jashboard Server He	alth Remote Control Configuration	Auto Video Recording M	aintenance	+ adı	min(Administrator) C Refresh 🕹 Print 🥜 Logo HE
User Manageme	nt				
The state of the s		trans and and the laws are in the link and	A second se	bee fels heavenhosses as isoles, to survey a bi	state "Edd Llear"
The list below shows the o	rrent list of available users. To delete or modify a	user, select men name in the list and	a press "Delete User" of "Modily User". To a	aa anter user, seret, an anternigeree site and	Number of configured users:
UserID 3	rrent list of available users. To delete or modify a	User Access A	Interview in the two in two in the two in the two in two in the two in two	SHMP States -3	Number of configured users: Emeil ID - A
UserID 1	erent list of available users. To delete or modify a	User Access A Disabled	Network Privilege & User User	ShiMP Status - 2 Disabled	Number of configured users: Emeil ID - A
UsenID 3 1 2	rrent list of available users. To delete or modify a Username	User Access A Disabled Enabled	Network Privilegia - A Hetwork Privilegia - A User Administrator	SHAP Status -> Disabled Disabled	Number of configured users: Email (D - A ~
UsenID J 1 2 3	rrent list of available users. To delete or mostly a Bername (a) anonymous admin	User Access A Disabled Enabled	t press "Detete User" or "Modey User". Το a Hetwork Privilege: Δ User Administrator	SlittP States 3 Disabled Disabled	Number of configured users : Email 10 - 4
UserID 3 1 2 3 4	rrent list of available users. To delete or modify a User name as anotymous admin	User, select lifer name in the not and User Access 3 Disabled Enabled ~ ~	press Detee User of Modey User. To a Notwork Driviloge. 3 User Administrator	States and States and Disabled Disabled	Number of configured users: Emet (0: .) ~ ~ ~
UseriD 3 1 2 3 4 5	rrent list of available users. To delete or modify a Usersame _s anonymous admin ~ ~ ~	User Access J Disabled Enabled ~ ~	press Delete User of woody User. To a Network Privilegie. J User Administrator	States States and States and States S	Namber of configured users : Lineal (C. 3)
UserID 3 1 2 3 4 5 6	rrent list of available users. To delete or modify a User serve: a anonymbus admin ~ ~ ~	User, select titler hanne in title instant User Access 3 Disabled Enabled ~ ~	press-Derete User or Moday User: To a Notivork Brivaloge 3: User Administrator ~ ~ ~	SHATP States 2 Disabled Disabled	Number of configured users: Emeil 10 - 3
UserID 3 1 2 3 4 5 8 7	rrent list of available users. To delete or modify a Usersame anonymous admin ~ ~ ~ ~	User Access 3 Distraction and an use as an Distraction Enabled 	press-Dente User or Moday User. To a Bortwork Privology: 3 User Administrator	Stiffer Status	Namber of configured users:
UserID 3 1 2 3 4 5 6 7 8	rent list of available users. To delete or modify a User some av anonymous admini ~ ~ ~ ~ ~	User Access 3 Disabled Enabled - - -	press "Levere User" or Moday User" to a Notivork Privateger & User Administrator	Safer use use used an incompare set inco Disabled Disabled 	Number of configured users : Email (1) 3
UserID 3 1 2 3 4 5 6 7 8 9	rrent list of available users. To delete or modify a uppersamex anonymous admini ~ ~ ~ ~ ~ ~ ~ ~	User, seeca new name in the name Disabled Enabled 	press "Levere User" or Woally User" to a Rofwork Phydloge S User Administrator 	States States 3 Disabled - - - -	Namber of configured users: Emeil (1) - 3 - - - - - - - - - - - - -

Add User | Noulty User | Delete Univ

Figure 3.21 Configuration - Users Page

3.4.17 Virtual Media

This section is to configure Virtual Media device settings. If you change the configuration of the virtual media in this page, it shows the appropriate device in the JViewer Vmedia dialog.

- Floppy devices: The number of floppy devices that support Virtual Media redirection.
- CD/DVD devices: The number of CD/DVD devices that support Virtual Media redirection.
- Hard disk devices: The number of hard disk devices that support Virtual Media redirection.
- Local Media Support: Enable or disable the local media support for Virtual Media redirection.

MEGARAC								4	American Megatrends	
Dashboard Se	erver Health	Remote Control	Configuration	Auto Video Recording	Maintenance		_	€odmin/As	ininistrator) C Refresh	O Print P Logout
Virtual Med	dia Devices									
The following optio	on will allow to conf	ligure virtual media d	evices. It also allows	to enable or disable Local M	ledia support on vitual mi	edia devices.				
Floppy device:	6	1								
CD/DVD device	es	1								
Harddisk devi	ices	1								
Local Media S	Support	10	Enable							

Save Reset

Figure 3.22 Configuration - Virtual Media Page

3.5 Remote Control

The Remote Control consists of Console Redirection and Server Power Control.

Console Redirection:

The remote console application, which is started using the GUI, allows you to control your server's operating system remotely, using the screen, mouse, and keyboard.

Megatrends
🔸 admin(Administrator) 🗢 Refresh 🕏 Print 🚿 Logout
HELP

Figure 3.23 Remote Control - Console Redirection Page

Java Console

- Server Power Control:
 - Reset Server:
 - This option will reboot the system without powering off (warm boot).
 - Power Off Server Immediate: This option will immediately power off the server.
 - Power Off Server Orderly Shutdown: This option will initiate operating system shutdown prior to the shutdown.
 - Power On Server: This option will power on the server.
 - Power Cycle Server: This option will first power off, and then reboot the system (cold boot).
 - Perform Action:
 Click this option to perform the selected operation.

MEGARAC	American
Daviboant Server Health Remote Control Configuration Auto Video Recording Maintenance	+admin(Administrator) C Refresh 😡 Print 🧈 Logout HELP
Power Control and Status	
The content server power status is shown below. To perform a power control operation, select one of the options below and press "Perform Action". Host is contently on Reset Server: Power Off Server - Immediate Power Off Server - Ordeny Shuddown Power Off Server Power Off Server Power Off Server	
	Reform Action

Figure 3.24 Remote Control - Server Power Control Page

3.6 Auto Video Recording

The Auto Video Recording consists of Triggers Configuration and Recorded Video.

Triggers Configuration: Used to configure the triggers for various events, which can be used by the KVM server to perform auto video recording feature.

MEGARAC	American Megatrends	
Dashbeand Server Health Remote Control Configuration Auto Video Record?	ing Maintenance	admin(Administrator) C Refresh Print Popul HELP
Triggers Configuration		
This page allows the user to configure which events will trigger the auto video recording function of the K	CVM server	
Temperature/Voltage Critical Events.	Temperature/Voltage Non Critical Events	
Temperature/Voltage Non Recoverable Events	Fan state changed Events	
C Watchdog Timer Events	Chassis Power on Event	
Chassis Power off Event	Chassis Reset Event	
Particular Date and Time Event		
Date: January + 1 + 2005 +	I DC Reset Event	
Time: (hh mm sa)		

Save Reset

Figure 3.25 Auto Video Recording - Triggers Configuration Page

Recorded Video:

Displays the list of available recorded video files on the BMC.

MEGAR	RAC SA					American
-	-		_			🕯 admin(Administrator) - C Refresh 🐳 Print 🥒 Logou
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance	HEL
Video Re Below is a list	of available recorde	d video files on the BM	. Select a video and	press the "Play Video" button to	play the video. Select a video and press the "D	ownload' button to download and save the video. Press the 'Delete' button to delete the selected
video,						Number of analable Video files : 0
				Tile Name		Tile information

Figure 3.26 Auto Video Recording - Recorded Video Page

Note!



A maximum of only 2 video files can be recorded and available for access, with each recording limited to 5.5MB or 20 seconds whichever occurs first.

Further event occurrences will be ignored and no recording will happen, until at least one video file is deleted.

3.7 Maintenance

Maintenance consists of Firmware Update, Restore Factory Defaults and System Administrator.

Firmware Update:

This wizard takes you through the process of upgrading firmware. A reset will automatically follow if the upgrade is completed or cancelled.



After entering update mode widgets, other web pages and services will not work. All open widgets will be closed automatically. If upgrade process is cancelled in the middle of the wizard, the device will be reset.

MEGAR	AC							Ame Mega
lashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance		• admin(Administrati	or) C Refresh 🕏 Print 📑
irmware	e Update							
irmware	e Update are of the device Pr	ess "Enter Update Mod	le" to put the device in	n update mode.				
pgrade firmw WARNING:	e Update are of the device. Pr Please note that affi	ess "Enter Update Mod ir entering update mod	le" to put the device in le widgets, other web	nupdate mode pages and services will not w	vork. All open widgets will be closed automatica	y. If upgrade process is cancelled in	n the middle of the wizard, the	e device will reset.

Figure 3.27 Maintenance - Firmware Update Page

 Restore Factory Defaults: Used to restore the factory defaults of the device firmware.

MEGA	RAC					American
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance	+admin(Administrator) ⊂ Refresh 10 Print ≪ Lagout HELP
Restore Facto	Factory Defaults of the def	aults Ice. Press "Restore Fa	ctory" to restore the d	evice defaults.	Contract of the second	the distant of
WARNING	: Please note that aff	er entering restore facto	ory widgets, other we	b pages and services will not v	vork. All open widgets will be closed automatically.	The device will reset and rebot within few minutes.



 System Administrator: Used to configure the System Administrator settings.

MEGARAC			American	
Dashboard Server Heal	th Remote Control Configuration	Auto Video Recording	Maintenance	• admin(Administrativator) C Refresh 🕏 Print - Logout HELP
System Administr	ator	Firmware Update Restore Factory Defaulta		
This page allows the user to en	nable/disable access and change the password	for the System Administrator	System Administrator	
Username	sysadmin			
User Access	Change Password			
Password				
Confirm Password				

Figure 3.29 Maintenance - System Administrator Page

3.8 Log Out

To log out of the GUI, click the logout link on the top right corner of the screen.

Save Reset

IPMI-1000 User Manual



Port Usage

A.1 Port Usage

Port #	Owner Module	Usage
80	Web server (webgo)	Listening for network connections on HTTP://
443	Web server (webgo)	Listening for secured network connections on HTTPS://
22	Secure Shell (sshd)	Secure SMASH-Lite session
23	Telnet	Telnet session
5120	CD media server	To accept regular CD media redirection connections
5124	CD media server	To accept secure (SSL based) CD media redirection con- nections
5123	Floppy media server	To accept regular FD media redirection connections
5127	Floppy media server	To accept secure (SSL based) FD media redirection connections
5122	HD media server	To accept regular HD media redirection connections
5126	HD media server	To accept secure (SSL based) HD media redirection con- nections
7578	KVM server (adviser)	To accept regular KVM redirection connections
7582	KVM server (adviser)	To accept secure (SSL based) KVM redirection connections
623	IPMI	LAN interface
1900	uPnP discovery	Used for uPnP based BMC discovery
50000	uPnP discovery	Used for uPnP based BMC discovery
555	WSMAN	Event daemon's listening port
5988	SFCB (WSMAN)	WSMAN related
427	SLPD	Service Locator



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