

User Manual

ASMB-BMC

ASMB Server Board BMC Function Application for Single Unit



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Technical Support and Assistance

- 1. Visit the Advantech website at http://support.advantech.com where you can find the latest information about the product.
- 2. Contact your distributor, sales representative, or Advantech's customer service center for technical support if you need additional assistance. Please have the following information ready before you call:
 - Product name and serial number
 - Description of your peripheral attachments
 - Description of your software (operating system, version, application software, etc.)
 - A complete description of the problem
 - The exact wording of any error messages

Warnings, Cautions and Notes



Warning! Warnings indicate conditions, which if not observed, can cause personal injury!



Caution! Cautions are included to help you avoid damaging hardware or losing data. e.g.

> There is a danger of a new battery exploding if it is incorrectly installed. Do not attempt to recharge, force open, or heat the battery. Replace the battery only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.



Notes provide optional additional information.

Document Feedback

To assist us in making improvements to this manual, we would welcome comments and constructive criticism. Please send all such - in writing to: support@advantech.com

Safety Instructions

- 1. Read these safety instructions carefully.
- 2. Keep this User Manual for later reference.
- 3. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
- 4. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
- 5. Keep this equipment away from humidity.
- 6. Put this equipment on a reliable surface during installation. Dropping it or letting it fall may cause damage.
- 7. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.
- 8. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- 9. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
- 10. All cautions and warnings on the equipment should be noted.
- 11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
- 12. Never pour any liquid into an opening. This may cause fire or electrical shock.
- 13. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
- 14. If one of the following situations arises, get the equipment checked by service personnel:
 - The power cord or plug is damaged.
 - Liquid has penetrated into the equipment.
 - The equipment has been exposed to moisture.
 - The equipment does not work well, or you cannot get it to work according to the user's manual.
 - The equipment has been dropped and damaged.
 - The equipment has obvious signs of breakage.
- 15. DO NOT LEAVE THIS EQUIPMENT IN AN ENVIRONMENT WHERE THE STORAGE TEMPERATURE MAY GO BELOW -20° C (-4° F) OR ABOVE 60° C (140° F). THIS COULD DAMAGE THE EQUIPMENT. THE EQUIPMENT SHOULD BE IN A CONTROLLED ENVIRONMENT.
- 16. CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER, DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

The sound pressure level at the operator's position according to IEC 704-1:1982 is no more than 70 dB (A).

DISCLAIMER: This set of instructions is given according to IEC 704-1. Advantech disclaims all responsibility for the accuracy of any statements contained herein.

Safety Precaution - Static Electricity

Follow these simple precautions to protect yourself from harm and the products from damage.

- To avoid electrical shock, always disconnect the power from your PC chassis before you work on it. Don't touch any components on the CPU card or other cards while the PC is on.
- Disconnect power before making any configuration changes. The sudden rush of power as you connect a jumper or install a card may damage sensitive electronic components.

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System Requirements

ASMB-BMC functions and specifications mentioned in this document are fully compliant with IPMI 2.0 specification. To set ASMB-BMC on ASMB server boards, the following are required:

1.1 Hardware Requirement

- ASMB server board
- An ASMB-BMC module
- Power Supply
- Keyboard
- LAN cable
- A client computer

1.2 Software Requirement

- IE or other web browsers
- IPMI driver is not required neither on windows nor Linux while ASMB-BMC is with ASMB server board.

1.3 IPMITool and Other Open Source Software

 ASMB-BMC supports open source software IPMITool as long as it is compliant to IPMI2.0



Setup

2.1 HW environment

To setup ASMB the server board hardware and dedicated LAN for BMC, please refer to ASMB server board user manual.

ASMB-BMC module should be well placed on IPMI1 (2 x 5 pin header), once ASMB-BMC is initialized, an LED indicator will be blinking.

2.2 BIOS Setting

Press or <F2> at bootup to enter AMI BIOS Setup Utility, the Main Menu will appear on the screen. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.

Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc. & Exit Server Mgmt BMC Self Test Status PASSED Enable/Disable interfaces to communicate with BMC Wait For BMC [Enabled] Wait For BMC Counter [6 Times] Bmc self test log System Event Log BMC network configuration ++: Select Screen t↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults E4: Save & Exit ESC: Exit Version 2.11.1210. Copyright (C) 2011 American Megatrends, Inc

Server Mgmt is used to modify ASMB-BMC setting.

BMC Support

To "Enable or Disable" BMC support. Set BMC support [Disabled] if you don't need BMC function. Once it is disabled, BIOS will not check ASMB-BMC initial status when starting.

Wait for BMC

To "Enable or Disable" wait For BMC. Once it is disabled, BIOS will initial without waiting for ASMB-BMC ready.

Note!

e! BMC function will not be active if Wait for BMC is disabled.



Wait for BMC Counter

BMC counter to set waiting time for BMC self test complete, the time for per counter is 5 seconds.

2.2.1 BMC Self Test log

This page is to about the BMC self test Erase Log setting.



2.2.2 System Event Log

To "Enable or Disable" system event log during bootup.

Aptio Setup Utility -	Copyright (C) 2011 American Server M	Megatrends, Inc. gmt
Enabling/Disabling Options SEL Components	[Disabled]	Change this to enable or disable all features of System Event Logging during boot.
Erasing Settings Erase SEL When SEL is Full	[No] [Do Nothing]	
Custom EFI Logging Options Log EFI Status Codes	[Both]	
NOTE: All values changed here do not until computer is restarted.	take effect	
		↔: Select Screen ↑↓: Select Item Enter: Select
		+/−: Change Opt. F1: General Help
		F2: Previous values F3: Optimized Defaults F4: Save & Exit
		ESU: EXIT
Version 2 11 1210 Fo	nuriøht (C) 2011 American M	egatrends Inc
Version 2.11.1210. Co	pyright (C) 2011 American M	egatrends, Inc.

SEL Components To Enable or Disable system event log (SEL) components.

2.2.3 BMC Network Configuration

BMC network configuration lists LAN configuration such as Address source, IP address, and Subnet mask. The default IP and Subnet mask can be used for first time BMC setting.

Aptio Setup Utility — Server Mgm	Copyright (C) 2011 American I <mark>t</mark>	Megatrends, Inc.
BMC network configuration IPMI LAN1 Configuration Address source Station IP address Subnet mask Station MAC address Router IP address	[Static] 192.168.0.1 255.255.255.0 0a-0b-0c-01-02-03 0.0.0.0	Select to configure LAN channel parameters statically or dynamically(by BIOS or BMC). Unspecified option will not modify any BMC network parameters during BIOS phase
		<pre> ++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>

There are three types of Address source.

- Unspecified
- Use default IP setting.
- Static

Use custom assigned IP setting, set Station IP address and Subnet mask after change Configuration Address to Static.

 Dynamic-Obtained by BMC Dynamically get IP source from your server board.

Note!

LAN2 is available in specific models.



MAC rewrite is only applied in Linux command.

2.3 LAN Setting

If the LAN of the client computer wants to connect to the ASMB server board LAN then the same client and server setting is required to be in the same segment of the IP address of ASMB-BMC on the host.

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Graphical User Interface (GUI) To login into the Graphical User Interface (GUI) of ASMB-BMC. Open an Internet browser and connect to the IP address of ASMB-BMC, the login page will show as in the following screen.

3.1 Login Page

MEGARAC			American Megatrends
Brgu	Username: Password: red Browser Settings	admin Ecost Paners? Logan	
1. 2. 3. 4	Allow popups from this Allow file download fro Enable javascript for this Enable cookies for this r	ste 🍳 m this ste. (How to 🖬) s ste 🥥	

Default user name and password

Username	admin
Password	admin

Before starting to use, JAVA is required to be installed to use remote control afterwards.

It is available at http://www.java.com/en/download/manual.jsp

3.2 Dashboard

Dashboard					
Dashboard gives the overall information about the status of the device and re Device Information	mote server.	Sensor Moni	toring		Event Logs
Firmware Revision: 1.3.0 Firmware Build Time: May 28 2013 01:21:38 CST	Status	Sensor	Reading		System Event (27.0 PlatformAlert (0.69
Network Information (Edit)	•	Watchdog	0x8000	P	SYSFAN_2-FAN (0 SYSFAN_4-FAN (0
MAC Address: 00:0B:AB:5F:CB:AF	•	SEL_Logging	0x8000	A	SYSFAN_3-FAN (0
V4 Network Mode: Static	2 •	Case_Intrusion	0x8000	a,	+5V (0.66%)
IPv4 Address: 192.168.0.1	•	PlatformAlert	0x8004	a	+12V (0.05%)
IPv6 Address: ::	•	INLET-TMP	35 ° C	A	
	•	OUTLET-TMP	47 ° C	Q	
Remote Control	•	CPU0-TMP	38°C	Q	
Refresh 800×600	•	+5V	4.95 Volts	Q	
Accidence (SCITE) - Replayer and Accidence a		+12V	12 Volts	a.	
Control and Contro		CPU0 VCORE	1.1 Volts	م	
And Sectors Sectors		+3.3V	3 33 Volts	٩	
Bit straight donaine Bit straight donaine Constitution Bit straight donaine Bit straight dona		VBAT	2.97 Volts	A	
PC Performance Sectors and PC		+5V\$8	5.1 Volts	م	
		+3//58	3 3 Volte		
			0.0 1010	<i>•</i>	
		OVOCANI A CAN	0.004	0	

3.2.1 Device Information and Network Information

The left upper area in Dashboard shows general information of the firmware and network settings of your ASMB-BMC module.

3.2.2 Remote Control

The Remote Control screen will show the screen of your monitored server. The screen can be updated manually by clicking the "Refresh" tab.

"Launch" tab will direct the user to the Remote Control function.

3.2.3 Sensor Monitoring

There are green and red status indicators, green means the monitored sensor normal status; otherwise, it is critical when it is red.

There is "HELP" tab on the right upper corner to describe the function of the page.

If new events occur, a notification will pop up, users can click the pop up and see new events.



3.3 Server Health

Server Health shows system temperature and abnormal events.

3.3.1 Sensor Readings

Sensor Readings are at Server Health > Sensor Reading. They provide thresholds and status information of sensors.

ensor R Event Log	adiaas		needrung	Maintenance			
Event Log	aanga						
concorrelati	displayed here. Double of	lick on a record to togole (ON / O	EE) the live wide	et for that particular or	and a second		
System Lo	g	inck on a record to toggle (ONF) o	rr) are intermus	erior unarganicular at	nibvi.		
Sensors	-					Sensor Count: 19	sensors
annor Namo	Status 1	Current Reading					
Valchdon	All deasserted	Or8000					
EL Logging	All deasserted	0x8000	Watch	dog: 0x8000		ALL DEASSER	RTED
case Intrusion	All deasserted	0x8000	-	-			
NatformAlert	Platform Event Trap Generated	0x8004	Inresho	ds for this sensor		LIVE WIDGET	NA I
NLET-TMP	Normal	35 ° C	Lower N	Ion-Recoverable (LNR): N/A	Upper Non-Recoverable (UNR):	N/A
UTLET-TMP	Normal	47 ° C	Lower C	ritical (LC):	N/A	Upper Critical (UC):	N/A
PU0-TMP	Normal	38 ° C	Lower N	Ion-Critical (LNC):	N/A	Upper Non-Critical (UNC):	N/A
5V	Normal	5 Volts					
12V	Normal	12 Volts					
PU0_VCORE	Normal	1.1 Volts	Graphic	al View of this se	nsor's events		
3.3V	Normal	3.33 Volts					
BAT	Normal	2.97 Volts	LNR	(0)			
5VSB	Normal	5.1 Volts					
3VSB	Normal	3.3 Volts	LC	(0)			
YSFAN_1-FAN	Lower Critical	0 RPM	LNC	(0)			
YSFAN_2-FAN	Lower Critical	0 RPM	010	(0)			
YSFAN_3-FAN	Lower Critical	0 RPM	UNR	(0)			
YSFAN_4-FAN	Lower Critical	0 RPM	110	(0)			
PU-FAN	Normal	3700 RPM	oc	(0)			
			UNC	(0)			
				(4)			
			Other	(0)			



To clear Platform alerts, the system has to be reset.



Live widget gives a dynamic representation of the readings for the sensors by clicking ON or OFF to activate the widget.

The live widget will stop updating when time is out. To set timeout, click Configuration > Service from main menu to change web timeout seconds

3.3.2 Event Log

The event log is from Sensor-Specific Event, BIOS Generated, or System Management Software event. The Event ID, Time Stamp, Sensor Type, Sensor Name and Description will be displayed.

Click Server Health > Event log from the main menu to see the logs.

MEGA	RAC			America Megatren	
Dashboard	Server Health Remote C	ontrol Configuration Auto Video Recordin	g Maintenance	• admin(Admin	istrator) C Refresh 🕏 Print 🐨 Log Ht
Event L	og				
Events gener	ated by the system will be logged he	ere. Double-click on a record to see description			
All Events		• filter by: All Sensors •			Event Log: 1129 event entries
BMC Tir	mezone 💿 Client Timezone				UTC Offset: (GMT+/-0)
Event ID 4	Time Stamp A	Sensor Name 🔺	Sensor Type 🔺	Description A	
1129	06/15/2013 15:19:22	System Event	System Event	Timestamp Clock Synch - Asserted	(8)
1128	06/15/2013 15:19:20	System Event	System Event	Timestamp Clock Synch - Asserted	
1127	06/15/2013 15:05:53	System Event	System Event	Timestamp Clock Synch - Asserted	
1126	06/15/2013 15:05:46	System Event	System Event	Timestamp Clock Synch - Asserted	
1125	06/15/2013 14:32:53	PlatformAlert	Platform Alert	Platform Event Trap Generated - Asserted	
1124	06/15/2013 14:32:51	SYSFAN_2-FAN	Fan	Lower Critical - Going Low - Asserted	
1123	06/15/2013 14:32:51	SYSFAN_4-FAN	Fan	Lower Critical - Going Low - Asserted	
1122	06/15/2013 14:32:50	SYSFAN_3-FAN	Fan	Lower Critical - Going Low - Asserted	
1121	06/15/2013 14:32:50	SYSFAN_1-FAN	Fan	Lower Critical - Going Low - Asserted	
1120	06/15/2013 14:32:09	System Event	System Event	Timestamp Clock Synch - Asserted	
1119	01/01/2010 00:00:20	System Event	System Event	Timestamp Clock Synch - Asserted	
1118	06/15/2013 13:55:16	System Event	System Event	Timestamp Clock Synch - Asserted	
1117	06/15/2013 13:55:13	System Event	System Event	Timestamp Clock Synch - Asserted	
1116	06/15/2013 13:52:23	PlatformAlert	Platform Alert	Platform Event Trap Generated - Asserted	
1115	06/15/2013 13:52:21	SYSFAN_2-FAN	Fan	Lower Critical - Going Low - Asserted	
1114	06/15/2013 13:52:20	SYSFAN_4-FAN	Fan	Lower Critical - Going Low - Asserted	
1113	06/15/2013 13:52:20	SYSFAN_3-FAN	Fan	Lower Critical - Going Low - Asserted	
1112	06/15/2013 13:52:20	SYSFAN_1-FAN	Fan	Lower Critical - Going Low - Asserted	
1111	06/15/2013 13:38:45	System Event	System Event	Timestame Clock Sunch - Asserted	

Clear All Event Logs

Two Filter Types are available.

BMC Timezone

Displays the BMC UTC Offset timestamp value of the events.

Client Timezone

Displays the events of the Client UTC offset timestamp.

To delete all existing records for all sensors, click "Clear All Event Logs" on the bottom-right.

3.3.3 System Log

Click Server Health > System log to enter the page, and click the System Log tab to view the related events.

MEGA	RAC				American Megatrends
Dashboard	Server Health	Remote Control	Configuration Auto Video R	ording Maintenance	🕯 admin(Administrator) - C Refresh - 😔 Print - 🖉 Logout HELL
	Received according			-	
System	Logs				
This page dis	plays loos of system	events for this device i	if the options have been configured).		
System	n Log				UTC Offset: (GMT+I-0)
	-				
Filter by:	Critical	-			This Filter: 38 event entries
-					
Event II.		ne Stamp 1	AMOOOBABSEC	E chedital Uta CRITICAL Trainersi	AnnOnaice c718/Cavid not pat namissions on natwork channel
2	Ja.	n 1 00:00:02	AMIOODBABSEC	F ntrd8152 (815 CRITICAl Tuser a	with c 315/Bio error cetting user info
3	Ja	n 1 00:00:02	AMICOOBABSEC	F IPMMain: 1524 CRITICAL TChassi	sTimer c 194/Chassis interrunts bandling failed
4	Jur	15 14:32:09	AMIDOOBABSFC	F IPMMain: [524 CRITICAL][Transpi SRC is DHCP/Static, do nothing	ortLANConfig.c.423(LAN or VLAN if current SRC is DHCP/Static and incoming
5	Jur	15 14:33:01	AMIGOOBAB5FC	F IPMMain: [524 CRITICAL]Transp SRC is DHCP/Static, do nothing	ortLANConfig.c.423[LAN or VLAN if current SRC is DHCP/Static and incoming
6	Jur	15 14:33:45	AMI000BAB5FC	F IPMMain: [524 CRITICAL][Transp SRC is DHCP/Static, do nothing	ortLANConfig.c.423[LAN or VLAN if current SRC is DHCP/Static and incoming
7	Jun	15 14:34:19	AMIDOOBAB5FC	F webgo: (603 CRITICAL][web_ses-	sion_ifc_ipmi.c.4723Malformed.cookie!!
8	Jur	15 14:42:47	AMIDOOBAB5FC	F webgo: [603 CRITICAL][web_ses: the home page	sions.c748)Session cookie not presentPlease login or access everything from
9	Jur	15 14:42:47	AMI000BAB5FC	F webgo: (603 CRITICAL][web_ses	sion_ifc_ipmi.c.472jMalformed cookie!!
10	Jur	15 14:45:23	AMI000BAB5FC	F webgo: [603 CRITICAL][web_ses: the home page	sions.c:748)Session cookie not presentPlease login or access everything from
11	Jur	15 14:45:23	AM000BAB5FC	F last message repeated 2 times	
12	Jur	15 14:57:13	AMIOOOBAB5FC	F IPMMain: [524 CRITICAL][Transp SRC is DHCP/Static, do nothing	ortLANConfig.c:423[LAN or VLAN if current SRC is DHCP/Static and incoming
13	Jur	15 15:01:15	AMI000BAB5FC	F webgo: (503 CRITICAL][web_ses: the home page	sions.c748(Session cookie not presentPlease login or access everything from
14	Jun	15 15:01:15	AMI000BAB5FC	F last message repeated 2 times	
46	har	35-10-31 31	110000101010	e IPMMain: [524 CR/TICAL]Transp	ort/LANConfig.c.423(LAN or VLAN if current SRC is DHCP/Static and incoming *

Entries can be filtered with levels such as Alerts, Critical Error, Notification, Warning, Debug, Emergency and information.

3.4 Remote Control

Users can use remote control function to connect to the server, and even change the power status of the system. Before launching KVM, it is required to disable any popup blocker of your browser.

3.4.1 Console Redirection

The Console Redirection main menu consists of the following menu items.



Video

- Pause redirection
 To pause Console Redirection.
- Resume Redirection
 To resume the Console Redirection when the session is paused.
- Refresh Video To refresh the display shown in the Console Redirection window.
- Compression Mode
 To change Compression with color space.
- DCT Quantization Table To judge video quality.
- Full Screen

To view Console Redirection in full screen mode. This menu is enabled only when both the client and host resolution are same.

Exit

To exit the console redirection screen.

Keyboard

Hold Right CTRL Key

To act as the right-side <CTRL> key when in Console Redirection.

- Hold Right Alt Key To act as the right-side <ALT> key when in Console Redirection.
- Hold Left Ctrl Key
 To act as the left-side <CTRL> key when in Console Redirection.
- Hold Left Alt Key To act as the left-side <ALT> key when in Console Redirection.

Right Windows Key

To act as the right-side <WIN> key when in Console Redirection. You can also decide how the key should be pressed: Hold Down or Press and Release.

- Left Windows Key To act as the left-side <WIN> key when in Console Redirection. You can also decide how the key should be pressed: Hold Down or Press and Release.
- Alt+Ctrl+Del To act as if you depressed the <CTRL>, <ALT> and keys down simultaneously on the server that you are redirecting.
- Context menu
 To act as the context menu key in Console Redirection.

Mouse

- Show Cursor

To show or hide the local mouse cursor on the remote client system.

 Mouse Calibration
 When the mouse mode is disabled. In this step, the mouse threshold setting on the remote server will be discovered.

Options

- Bandwidth
 - To adjust the bandwidth with option "Auto Detect" or alternative bandwidths.
- Keyboard/Mouse Encryption To encrypt keyboard inputs and mouse movements sent between the connections.
- Zoom

To zoom-in or zoom-out the screen when launching the Java Console.

Media

Virtual Media Wizard

To add or modify a media, select and click "Virtual Media Wizard" button.

Viewer[10.10.10.1] - 9 fps	- 0 ×
Video Keyboard Mouse Options Media Keyboard Layout VideoRecord Help Zoom Size:73%	
Rebort and Boloct proper Boot device or Joseph Boot Redia in selected Boot device at Roppy Key Media Floppy Image Browse Connect Floppy	
CDDVD Media1	
ISO Image V Browse Connect CD/0/0	
○ E	
Hard disk/USB Key Media1	
HD/USB Image Browse Connect Hard disk/USB Key	
PhysicalDrive1.(G] - US8 PhysicalDrive0.(C.D) - Fixed Drive v	
Status	
Target Drive Connected To Read Bytes	
Virtual Popy 1 Not connected n/a Virtual CD 1 Not connected n/a Virtual HardDisk 1 Not connected n/a Close	
Redirecting the Devices CDFDHD to host	LALT LCTRL RALT RCTRL Num Cops Scroll

Floppy Key Media1

To start or stop the redirection of a physical floppy drive and the floppy type as img.

- CD/DVD Media1
 To start or stop the redirection of an iso file.
- Hard Disc/USB key Media1 To start or stop the redirection of a Hard Disk/USB key image and USB key image such as img.

Note!

- For windows clients, if the logical drive of the physical drive is dismount then the logical device is redirected with Read/Write Permission else it is redirected with Read permission only.
- For MAC client, external USB Hard disk redirection is only supported
- For Linux client, fixed Hard drive is redirected only as Read mode. Write mode is not supported.
- For USB key image redirection, FAT16, FAT32, NTFS are supported.

Keyboard Layout

- Auto Detect

To detect keyboard layout automatically. The languages supported automatically are English - US, French - France, Spanish - Spain, German - Germany, Japanese - Japan.

Soft Keyboard
 To select the keyboard layout.

Note! Soft keyboard is applicable only for JViewer Application.



Video Record

This option is available only when Java Console is launched. To view this menu option you must download the Java Media FrameWork (JMF). It can be downloaded from the link http://www.oracle.com/technetwork/java/javase/download-142937.html

- Start Recording To start recording the screen.
- Stop Recording
 To stop the recording.
- Settings

To set the settings for video recording.

3.4.2 Server Power Control

This page allows users to view and control the power of the server.

To open Power Control and Status page, click Remote Control > Server Power Control from the main menu.

MEGARAC	
Dashboard Server Health Remote Control Configuration Auto Video Recording Maintenance	€admin(Administrator) ⊂ Refresh & Print Elogout HELP
Power Control and Status	
The current server power status is shown below. To perform a power control operation, select one of the options below and press "Perform Action".	
Host is currently on	
Reset Server	
Power Off Server - Immediate	
Power Off Server - Orderly Shutdown	
Power On Server	
Power Cycle Server	

Perform Action

- Reset Server To reboot the system without powering off (warm boot).
 Power Off Server - Immediate
- To power off the server immediately.
- Power Off Server Orderly Shutdown To power off the server immediately.
- Power On Server To power on the server.
- Power Cycle Server To power off first, then reboot the system (cold boot).

3.5 Configuration

Configuration group is for users accessing with various configuration settings.

3.5.1 Active Directory

Active Directory (AD) is a directory service created by Microsoft for Windows domain networks.

Once Active Directory is set, users in the same group will have same privilege as an administrator or a normal user.

To open Active Directory Setting page, click Configuration > Active Directory from the main menu.

MEGARAC			America Megatren
			🕯 admin(Administrator) 🗢 Refresh 🔮 Print 🖙 Log
shboard Server Health	Remote Control Configuration	Auto Video Recording Maintenance	н
ctive Directory Se	ttings		
tive birectory be	rungo		
			Advanced Settings
'Active Directory' is currently of	disabled. To enable Active Directory and configu	ure its settings. Click on 'Advanced Settings' button.	
e 'Active Directory' is currently o	disabled. To enable Active Directory and configu	ure its settings. Click on 'Advanced Settings' button.	
e 'Active Directory' is currently o	disabled. To enable Active Directory and configu- list of configured Role Groups. If you would like	ure its settings. Click on 'Advanced Settings' button. I to delete or modify a role group, select the name in the list and press Delete R	ole Group or Modify Role Group. To add a new Role Group, select an unconfigured
e 'Active Directory' is currently o e list below shows the current it and press Add Role Group.	disabled. To enable Active Directory and configu	ure its settings. Click on 'Advanced Settings' button. e to delete or modify a role group, select the name in the list and press Delete R	ole Group or Modify Role Group. To add a new Role Group, select an unconfigured
e 'Adive Directory' is currently o e list below shows the current of and press Add Role Group.	disabled. To enable Active Directory and configu list of configured Role Groups. If you would like	ure its settings. Click on 'Advanced Settings' button. Is to delete or modify a role group, select the name in the list and press Delete R	sle Group or Modify Role Group. To add a new Role Group, select an unconfigured Number of configured Role groups:
e 'Active Directory' is currently o e list below shows the current it and press Add Role Group.	disabled. To enable Active Directory and configu list of configured Role Groups. If you would like Group Name -3	ure its settings. Click on X-bannend Settings I button. Is to delete or modify a role group, select the name in the last and press Delete R Group Domain: J	ste Group or Modily Role Group. To add a new Role Group, select an unconfigured Number of configured Role groups: Group Preferinge
e 'Adive Directory' is currently o e list below shows the current t and press Add Role Group. Role Group ID : A 1	disabled. To enable Active Directory and configu- list of configured Role Groups. If you would like Group Name Δ	ure its settings. Click on 'Advanced Settings' button. Is to delete or modify a role group, select the name in the list and press Delete R Group Dominers	cle Group of Modily Rote Group. To add a new Rote Group, select an unconfigured Number of configured Rote groups. Group President 3
e 'Active Directory' is currently o e list below shows the current t and press Add Role Group. Role Group ID3 1 2	disabled. To enable Active Directory and configu list of configured Role Groups. If you would like Group Name (2)	ure its settings. Click on X-bannend Settings I button. Is to delete or modify a role group, select the name in the list and press Delete R Group Domain: -3 -	ole Group or Modily Role Group. To add a new Role Group, select an unconfigured Number of configured Role groups: Group Phillippe
e 'Active Directory' is currently of e list below shows the current it and press Add Role Group. Role Group ID 1 2 3	disabled. To enable Active Directory and configu list of configured Role Groups. If you would like Group Name:	ure its settings. Ceick on X-banned Settings Fuelton. Is to delete or modify a role group, select the name in the list and press Delete R Group Domber	cle Group of Modily Rote Group. To add a new Rote Group, select an unconfigured Number of configured Rote groups. Group Printinge. 3. -
e 'Active Directory' is currently one list below shows the current of and press Add Role Group. Role Group ID	disabled. To enable Active Directory and configured Role Groups. If you would like Group Name	ure its settings. Click on X-bannend Settings I button. a to delete or modify a role group, select the name in the list and press Delete R Group Domain	ole Group or Modily Role Group. To add a new Role Group, select an unconfigured Number of configured Role groups. Group Privilege
he 'Adive Directory' is currently on he list below shows the current of and press Add Role Group.	Stabled. To enable Adhe Diredony and configu Ist of configured Role Groups. Byou would like Group Name	ure its settings. Click on 'Advanced Settings' button. Is to delete or modify a role group, select the name in the list and press Delete R Group Dominan	cle Group or Modify Role Group. To add a new Role Group, select an unconfigured Number of configured Role groups: Group President
he 'Adhe Diredon' is currently of he list below shows the current of and press Add Role Group. Role Group D _3. Color Group D _3. 2 3 4 5	Stabled, To enable Active Directory and config list of configured Role Groups. If you would like croup Itame:	ure its settings. Click on X-banned Settings I button. a to delete or modify a role group, select the name in the list and press Delete R Group Domesm - 3 - - - - - - - - - -	ele Group or Modify Role Group. To add a new Role Group, select an unconfigured Number of configured Role groups: Group 3 histograp. - - - - -

The 'Active Directory' is default disabled. To enable Active Directory and configure its settings. Click on the 'Advanced Settings' button.

MEGARAC						American Megatrends
Dashboard Server	Health Remote Control	Configuration	Auto Video Recording	Maintenance	• admin(Administrator) C	Refresh C Print Copout HELP
Active Directo	ry Settings					
	Advanced Active Direct	ory Settings	re its sellinos. Click on 'Adra	nred Sellinos' bollon	0	
The list below shows the and press Add Role Gro	Active Directory Authentication	1		nable		 b. select an unconfigured slot
Role Group ID - A	User Domain Name					a compared rate groups, o
	Time Out Domain Controller Server Adi	tress1				
3 4	Domain Controller Server Ad	dress2				
	Domain Controller Server Adu	fress3				
					Save Cancel	Delete Role Group

3.5.2 **DNS**

The Domain Name System (DNS) is a distributed hierarchical naming system for devices connecting to any network. DNS provides domain names to address participants in the same network.

					🖣 admin(Administrator) C Refresh 🚳 Print 🕞 Lo
ashboard Server Health	Remote Control Con	figuration Auto V	ideo Recording	Maintenance	н
ONS Server Settings					
anage DNS settings of the device.					
ost Configuration					
Host Settings	Automatic	•			
Host Name	AMI000BAB5F	FCBAF			
egister BMC					
eth0	Register BM Direct Dy	IC ynamic DNS O DHC	Client FQDN		
eth1	 Register BM Direct Dy 	IC ynamic DNS 💿 DHC	Client FODN		
omain Name Configuration					
Domain Settings	Manual	-			
Domain Name					
v4 Domain Name Server Configu	ration				
DNS Server Settings	Manual	-			
Preferred DNS Server	0.0.0.0				
Alternate DNS Server	0.0.0				
v6 Domain Name Server Configu	ration				
DNS Server Settings	Manual				

Host Configuration

- Host Settings

Manual or Automatic.

 Host Name Displays the hostname of the device.

Register BMC

BMC can be registered via direct dynamic DNS or DHCP client FQDN.

IPv4 Domain Name Server Configuration

DNS Server Settings
 Options for IPv4 DNS settings for the device.

■ IPv6 Domain Name Server Configuration

DNS Server Settings
 Options for IPv6 DNS settings for the device.

3.5.3 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

Group can be modified after enabling LDAP Authentication in Advanced Setting

MEGARAC					American Megatrends
Dashboard Server Healt	h Remote Control	Configuration	Auto Video Recording	Maintenance	iadmin(Administrator) ⊂ Refresh 🖏 Print = Logout HELP
LDAP Settings					
LDAP Settings	nable LDAP and configure t list of configured Role Gr	e its settings. Click or roups. If you would lie	'Advanced Settings' button. Ie to delete or modify a role gro	up, select the name in the list and press Delete	Advanced Settings
LDAP Settings	mable LDAP and configure t list of configured Role Gr	e its settings. Click or roups. If you would lik	'Advanced Settings' button. Ie to delete or modify a role gro	up, select the name in the list and press Delete	Advanced Settings. Role Croup or Modily Role Croup. To add a new Role Croup, select an unconfigured slot Number of configured Role groups: 0
LDAP Settings LDAP is currently disabled. To The list below shows the curre and press Add Role Group.	nable LDAP and configure It list of configured Role Gr Group Nat	e its settings. Click or roups. If you would lik mo	n'Advanced Settings' button. Le to delete or modify a role gro	up, select the name in the list and press Delete i Group Search Base 3	Advanced Settings Role Group or Modify Role Group. To add a new Role Group, select an unconfigured slot Number of configured Role groups: 0 Group Stratiges: 3
LDAP Settings LDAP is currently disabled. To r The list below shows the currer and press Add Role Group. Role Group ID -3 1 2	nable LDAP and configure t list of configured Role Gr Group Nat	e its settings. Click or roups. If you would lik me3	n'Advanced Settings' button. La to delete or modify a role gro	up, select the name in the list and press Delete Group Search Base 3	Advanced Settings. Role Croup or Modify Role Croup. To add a new Role Circup, select an unconfigured stot Number of configured Role groups: 0 Group Prelidings:
LDAP Settings LDAP is currently disabled. To / The list below shows the curre and press Add Role Group.	nable LDAP and configure It list of configured Role Gr Group Nat ~ ~	e its settings. Click or roups. If you would lik me A	n 'Advanced Settings' button. Ia to delete or modify a role gro	up, select the name in the list and press Defete Group Search Rase -3 ~ ~	Advanced Settings. Advanced Settings. Role Group or Modify Role Group. To add a new Role Group, select an unconfigured sold Number of configured Role groups: 0 Group Printings
LDAP Settings LDAP is currently disabled. To r The list below shows the curre and press Add Role Group. Role Group ID 3 1 2 3 4	nable LDAP and configure t list of configured Role Gr Group Nata - - - -	e its settings. Click or roups. If you would lie me 4	n'Advanced Settings' button. Le to delete or modify a role gro	up, select the name in the list and press Deleter Group Search Base - 3 - - -	Advanced Settings. Advanced Settings. Role Croup or Modify Role Croup. To add a new Role Croup, select an unconfigured sole Number of configured Role groups: 0 Croup Philotope

Add Role Group

To add a new role group to the device.

- Modify Role Group To modify the particular role group.
- Delete Role Group To delete a role group from the list.

Advanced LDAP setting

To configure LDAP Advanced Settings. Options are Enable LDAP Authentication, IP Address, Port and Search base.

MEGARAC								American Megatrends
Dashboard Server I	fealth Remote Control	Configuration	Auto Video Recording	Maintenance		÷	admin(Advorsistrator)	C Refresh 🔮 Print 🐱 Logout HELP
LDAP Settings								
LDAP is currently disabled	5. To enable LDAP and configure	its settings. Click on 1	Advanced Settings' button.					
The list below shows the and press Add Role Grou	Advanced LDAP Setting	5						1. select an unconfigured slot
	LDAP Authentication		E	able				of configured Role groups: 0
	IP Address							<u>له</u>
	Port		389					
4	Bind DN							
	Password							
	Search Base							1. (
							Save Cance	Cente Role Group

3.5.4 Local Media

Local Media shows lists of available images on BMC. Images can be replaced by "Replace Image" or "Delete Image".

		o Recording Maintenance	
cal Media			
w is a list of available images of	on the local media on the BMC. Select a empty record an	d press the "Add Image" to upload a new image on the BMC. Select a record	d and press the " Replace Image " button to overwrite the existing image
ite Image" to delete the image.			Number of available ima
# A	image Type 🗳	Image Name (A	image information
1	Floppy		*
2	CD/DVD	~	
3	Harddisk	-	-
			Add Image Replace Image Delete Im

Note! Only administrator privileges can change local media.

- *Each image type can be uploaded for one image.*
- Maximum upload size is 8 MB.

3.5.5 Mouse Mode

The Redirection Console handles mouse emulation from local window to remote screen.

MEGAR	AC		American Megatrends			
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance	• admin(Administrator) ⊂ Refresh & Print ⇒ Logout HELP
Mouse N	lode Setting	S				
Redirection cor	nsole mouse mode	settings can be modifie	d here.			
The cur	rent Mouse Mor	de is ABSOLUTE.				
 Set Mo Set Mo 	de to Absolute (Reco de to Relative (Reco	ommended when serve mmended when server	r OS is Windows) OS is Linux)			

Absolute Mode

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

 Relative Mode Calculated relative mouse position will be sent to the server (Recommended when server OS is Linux).

3.5.6 Network

Network settings for available LAN channels.

MEGARAC								Á	Amer Megat	rican trends
Dashboard Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance		• adn	neçed ministrator) 👊 kerresn	W PTING -	HELP
Network Settings										
Manage network settings of the dev	ce.									
LAN Interface		th0								
LAN Settings	5	Enable								
MAC Address	0	0.08 AB 5F CB AF								
IPv4 Configuration										
Obtain an IP address automat	ically [Use DHCP								
IPv4 Address	1	92.168.0.1								
Subnet Mask	2	55.255.255.0								
Default Gateway		0.0.0								- 1
IPv6 Configuration										
IPv6 Settings	8	Enable								
Obtain an IP address automat	ically	Use DHCP								
IPv6 Address										
Subnet Prefix length	(4								
Default Gateway										
VLAN Configuration										
VLAN Settings	1	Enable								-
VLAN ID										
VLAN Priority										

LAN Interface

LAN interface list.

LAN Settings

LAN settings can be enabled or disabled.

MAC Address

The field displays the MAC Address of the device. It is read only.

IPv4 setting

This option lists the IPv4 configuration settings.

- Obtain IP Address automatically

This option dynamically configures an IPv4 address using DHCP.

 IPv4 Address, Subnet Mask, and Default Gateway These fields are for specifying the static IPv4 address, Subnet Mask and default gateway to be configured to the device.

IPv6 setting

This option lists the IPv6 configuration settings.

- IPv6 Settings
 - This option enables the IPv6 settings in the device.
- Obtain IPv6 Address automatically This option dynamically configures an IPv6 address using DHCP.
- IPv6 Address
 - To specify a static IPv6 address to be configured to the device.
- Subnet Prefix length

To specify the subnet prefix length for the IPv6 settings (Value ranges from 0 to 128).

- Default Gateway Specify the default gateway for the IPv6 settings.
- VLAN Configuration

It lists the VLAN configuration settings.

VLAN Settings

To enable/disable the VLAN support for selected interface.

- VLAN ID

The identification for VLAN configuration (Value ranges from 1 to 4095).

VLAN Priority

The priority for VLAN configuration (Value range from 1 to 7, 7 is the highest priority for VLAN).

3.5.7 NTP

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

NTP Setting pages at Configuration > NTP from the main menu.

MEGARA	c								4		American Megatrends
Dashboard !	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance		+ adm	iA(Administrator)	C Refre	sh 🕏 Pri	HELP
NTP Settin	ngs										
Here you can eith	er configure the N	TP server or view and	d modify the device's D	ate & Time settings.							
Date: Time: (hh:mm:ss) UTC Timezo	June 17 ne: (GMT+/	т (02 (0) т н	19 * 2013 17 oun(s)	v							
NTP Server:	pool ntp	org									
Automat	ically synchronize	Date & Time with NT	P Server								
						 	 		Refrosh	Save	Reset

- Date The current date for the device specifically.
 Time The current time for the device specifically.
- UTC Timezone

To display the local time, choose the UTC timezone values in the listed box.

NTP Server The NTP server for the device specifically.

Automatically synchronize The date and time will be automatically synchronized with the NTP server if checking the box.

3.5.8 PAM Order

Pluggable Authentication Module (PAM) Ordering provides the priority list of available PAM module for user authentication to the BMC. The authentication will be verified in order. To disable one of the authentication, go to the dedicate page to disable it. PAM Ordering at Configuration > PAM Order from the main menu.

MEGAF	CAC					American Megatronds
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance	admin(Administrator) C Refresh 🕏 Print 🏓 Logout HELP
PAM Ord	lering sed to configure the IPHN LDAP two Directory	PAM Ordering for the us	ier außtentication.			
						Save Reset

3.5.9 **PEF**

Platform Event Filtering (PEF) provides a regular 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.

To open PEF Management Settings page, click Configuration > PEF from the main menu

Event Filter Tab

Choose the Event Filter, double click or click Modify tab to modify Event Filter, or click the blank Event Filter to add new setting.

				admin(Administrator) C Refresh 🕏 Print
ard Ser	ver Health Remote Control C	onfiguration Auto Video Recording Maintenance		
Manage	ement			
page to cont	foure Event Filter, Alert Policy and LAN De	estination. To delete or modify a entry, select it in the tist and press	"Delete" or "Modify". To add a new entry select an uncon	foured slot and press "Add".
vent Filter	Alert Policy LAN	Destination		
	, and a set of the			
				Configured Event Filter cou
PEE ID A	Filter Configuration	Event Filter Action	Event Severity A	Sensor Name
1	Enabled	(Alert)	Critical	Any
2	Enabled	[Alert]	Critical	CPU0-TMP
3	Enabled	(Alert)	Critical	CPU0-TMP
4	Enabled	[Alert]	Critical	Case_Intrusion
5	Disabled	[Alert]	Critical	Case_Intrusion
6	Disabled	(Alert)	Unspecified	Any
7	Disabled	(Alert)	Unspecified	Any
8	Disabled	(Alert)	Unspecified	Any
9	Disabled	(Alert)	Unspecified	Any
10	Disabled	(Alert)	Unspecified	Any
11	Disabled	(Alert)	Unspecified	Any
	Disabled	(Alert)	Unspecified	Any
12	Disabled	[Alert]	Unspecified	Any
12	Disabled	(Alert)	Unspecified	Any
12 13 14		(Alert)	Unspecified	Any
12 13 14 15	Disabled			*
12 13 14 15 16	Disabled	*		
12 13 14 15 10 17	Disabled ~ ~	-	-	~

– PEF ID

This field displays the ID for the newly configured read-only PEF entry.

- Filter configuration
 Check box to modify the PEF settings.
- Event Filter Action
 Check box to modify PEF Alert action.
- Event Severity
 To choose any one of the Event severity from the list.
- Sensor Name
 - To choose the particular sensor from the sensor list.

Alert Policy Tab

This page is used to configure the Alert Policy and LAN destination. Entries can be added, deleted or modified in this page.

Choose the Policy Entry, double click or click Modify tab to modify Alert Policy Entry, or click the blank Policy Entry to add new setting.

GARAC					Amer Megat
ard Serve	er Health Remote Contro	DI Configuration Auto Video Recording	Maintenance	🕶 admin(Administrator) 🤇 R	efresh 🕏 Print 🍬
Manager	ment				
	we found filler that Dation and	I M Pastadas To debte or modify a solar sated it	in the list and ensue "Potents" or "Modify" To add a new order ordered as		
page to contig	pute Event Piller, Alert Policy and	CAN Destination. To detete or modify a entry, select it	in the list and press. Deleter or Modify'. To add a new entry, select an i	unconfigured slot and press "Add".	
and Elber	Alast Dallas	LAN Destination			
vent rater	Allert Policy	CAN Desthabon			
				Configu	ared Alert Policy coun
tion Color B	Delice Resolute 1	Delice Confinentiation 1	Pullin Put a	Channel Number 1	Activation Polastoc
acy thuy e =	1	Enabled	Always send alert to this destination	Channel Number 3 1	1
2	*	~		~	
3		~		~	-
4	~	-	-	~	~
5			~	~	~
6	~	2 C	~	~	~
7			<u>م</u>	~	~
9				~	
	~	-		~	-
9					-
9	~		-		
9 10 11	-	-	*	-	-
9 10 11 12	-	~	*	-	:
9 10 11 12 13	-	~ ~ ~			
9 10 11 12 13 14		-			-
9 10 11 12 13 14 15		* * * *	* * * *	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
9 10 11 12 13 14 15 16		* * * *		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	*
9 10 11 12 13 14 15 16 17		* * * * *		~	-

Ama					AC	MEGAR
• admin(Administrator) C Refresh 10 Phint	Maintenance	Auto Video Recording	Configuration	Remote Control	Server Health	Dashboard
					agement	PEF Man
13				diffe Mart Dation and	ther .	
			ry	dity Alert Policy ent	MOG	
Feb Aleft Policy co				icy Entry B	Pos	
Distance Proventie				rel enel e	1000	
1	-	1		icy Number	Pol	
	able	V 6		icy Configuration	Poli	
	•	0		icy Set	Pol	
~						4
	-	1		annei Number	Cha	
	•	1		stination Selector	Des	
	ent Specific	E E		rt String	Aler	8
		0		d Shina Key	Aler	9
· · · · · · · · · · · · · · · · · · ·				in coming may		
					_	
Modify Gancel					2	
				2		

Policy Entry #

Displays Policy entry number for the newly read-only configured entry.

- Policy Number
 Displays the Policy number of the configuration.
- Policy Configuration
 To enable or disable the policy settings.

- Policy Set

To choose any one of the Policy set values from the list.

0. Always send alert to this destination

1. If alert to previous destination was successful, do not send alert to this destination. Proceed to next entry in this policy set.

2. If alert to previous destination was successful, do not send alert to this destination. Do not process any more entries in this policy set.

3. If alert to previous destination was successful, do not send alert to this destination. Proceed to next entry in this policy set that is to a different channel.

4. If alert to previous destination was successful, do not send alert to this destination. Proceed to next entry in this policy set that is to a different destination type.

- Channel Number

To choose a particular channel from the available channel list.

Destination Selector

To choose a particular destination from the configured destination list.

LAN Destination

To add, delete or modify LAN destination.

Choose the LAN Destination, double click or click Modify tab to modify LAN Destination, or click the blank LAN Destination to add new setting.

MEGAR	AC			Ame Mega
ashboard	Server Health Re	mote Control Configuration	Auto Video Recording	+admin(Administrator) ⊂ Refresh 🖏 Print 🖷 Maintenance
PEF Man	agement			
se this page t Event Fi	iter Alert P	olicy	delete or modify a entry, select it	In the list and press "Dekler" or "Nodify". To add a new entry, select an unconfigured alot and press "Add".
LAN Chann	et: 1 👻			Configured LAN Destination cou
LAN	Destination A	De	itination Type 🔺	Destination Address 🗅
	1		~	
	2		-	•
	3		*	•
	4			
	5		-	
	6		*	*
	7			*
	0		~	*
	9		*	
	10		•	•
	11		•	
	12			*
	13			
	14		-	

MEGARAC			
ashboard Server	Health Remote Control Configuration	Auto Video Recording Maintenance	े admin(Administrator) C Refresh 🕏 Print 🖃 Logo HEI
EF Managem	ent		
re this page to configur	e Event Filter, Alert Policy and LAN Destination. To c	elete or modify a entry, select it in the list and press "Delete" or "Modify". To add a new e	ntry, select an uncooligured slot and press "Add".
Event Filter	Add LAN Destination entry		E Contraction of the contraction
LAN Channel: 1	LAN Channel Number	1	LAN Destination count: 0
	LAN Destination	1	
	Destination Type	Snmp Trap -	
	Destination Address	Snmp Trap Email Alert	
4	Usemame	anonymous *	
6	Subject		
7 8	Message		
9			
			Add Cancel
13			

- LAN Destination
 Display Destination number for the newly configured read-only entry.
- Destination Type To select SNMP Trap or an Email alert. The SMTP server information also has to be added-under Configuration > SMTP.
- Destination Address
 Destination address supports IPv4 address format and IPv6 address format.
- Subject & Message
 These fields must be configured if email alert is chosen as destination type.

3.5.10 RADIUS

To "enable or disable" RADIUS, check or uncheck the "RADIUS Authentication" Enable checkbox.

MEGAR	MEGARAC							Amer			
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance		• admin(Administrator) C •	erresh was	HELP		
RADIUS	Settings										
Check the box	below to enable RAD	OIUS authentication and	enter the required in	nformation to access the RAD	US server. Press the Save button to save yo	our changes.					
RADI	IS Authentication	Enable									
Port		1812									
Time	Out	3	seconds								
Serve	r Address										
Secre	e										
								Save	Reset		

RADIUS Authentication

Option to enable RADIUS authentication. User can click "HELP" to see the detail setting for each column.

- Port The RADIUS Port number.
- Time Out

The Time out value in seconds, the range is from 3 to 300.

- Server Address
 The IP address of RADIUS server.
- Secret

The Authentication Secret for DADIUS server.

3.5.11 Remote Session

This page is for users to configure virtual media configuration settings for the redirection session. The default is encryption disabled.

MEGAR	SAC					American
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance	+admin(Administrator) ⊂ Refresh 🚯 Print 🐨 Logout HELP
Configur	re Remote S	ession	on KVM or Media data	for the next redirection sessic	n.	
KVM Enci Media En Virtual Me	ryption cryption edia Attach Mode	Enable Attach				
						Save Reset

KVM Encryption Enable or Disable encryption on KVM data for the next redirection session.

Media Encryption

Enable or Disable encryption on Media data for the next redirection session.

Virtual Media Attach Mode

Two types of VM attach mode are available.

- Attach
 - Immediately attached Virtual Media to the server upon boot-up.
- Auto

Attaches Virtual Media to the server only when a virtual media session is started.

3.5.12 Services

This page is used to display the services running in the BMC. To modify a service, the user must be an Administrator.

IEGAR	AC							Ameri Megatr
aboard	Server Health	Remote Control	Configuration Auto	/ideo Recording M	laintenance		admin(Administrator)	C Refresh 🐶 Print 🥔 L
rvices wisalisto	of services running o	in the BMC. It shows o	urrent status and other basic in	formation about the servi	ces. Select a slot and press "Modify" but	in to modify the services configu	ation.	
rvices wisalisto	of services running o Service 1	in the BMC. It shows o	urrent status and other basic in Current State A	formation about the servi Interface	ces. Select a slot and press "Modify" but is a Nonsecure Port a	in to modify the services configure Secure Port -3.	ation. Timeout A	Number of Servic
rvices wisalisto	of services running o Service 1 W0	in the BMC. It shows o Name 3 b	Current Status and other basic in Current State A Active	formation about the servi Interface eth0	ces. Select a slot and press "Modify" bull is _3 Nonsecure Port 80	in to modify the services configu Secure Port 3 443	ation. Timeout A 1800	Number of Servic Maximum Session 20
vices wisalisto	of services running o Service I we kyr	in the BMC. It shows o Name 3 D	Current status and other basic in Current State 3 Active Active	formation about the servi Interface eth0 eth0	ces. Select a stot and press "Modify" bulk isNonsecure Port 80 7578	n to modify the services configured of the servi	ation. Timeout A 1800	Number of Servi Maximum Session 20 2
vices wisalisto	of services running o Service I we kar cd-mr	in the BMC. It shows o Name - J D n edia	Current status and other basic in Current State 3 Active Active Active	formation about the servi interface eth0 eth0 eth0	ces. Select a slot and press "Modify" but is <u>.3.</u> Nonsecure Port .3. 80 7578 5120	in to modify the services configured on the services configured on the services configured on the service of the services configured on the services configu	ation. Timeout A 1800 ~	Number of Servi Maximum Session 20 2 1
visalisto	of services running o Service I we kar co-m	in the BMC. It shows o Name J D D edia dia	Current status and other basic in Current State J Active Active Active	formation about the servi interface eth0 eth0 eth0 eth0	ces. Select a slot and press "Modify" but is J. Konsecure Port J. 80 7576 5120 5122	in to modify the services configured to modify the services configured to t	ation. Timeout A 1800 ~ ~ ~	Number of Servi Maximum Session 20 2 1

MEGAR	RAC						American Megatrends
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maint	• admin(Administrator) - C	Refresh 😵 Print 🖙 Logout HELP
Services							
Below is a list	of services running o	on the BMC. It shows cu	ment status and othe	er basic information about the r	inices.	Belect a slot and press "Modify" button to modify the services configuration.	
						12	Number of Services: 7
	Modi	fy Service					Maximum Sessions A
	Servic	ce Name		web			20
	Curre	ent State		IV AC	re .		1
5	Interfa	aces		eth0	٠		1
	Nons	ecure Port		80			
	Secur	re Port		443			Modify
	Timer	tuo		1800	1	econds	
	Maxim	num Sessions		20			
						Modify Cancel	

Service Name

Displays service name of the selected slot (read-only).

Current State

Display the current status of the service, either active or inactive.

Interfaces

Shows in the interface which service is running.

Nonsecure Port

This port is used to configure the non secure default port number for the service. Click "HELP" to see port occupation for application.

Secure Port

Used to configure secure default port number for the service. Click "HELP" to see port occupation for application.

Timeout
 Display the session timeout value of the service.

Web timeout value range

Web timeout value range: 300 to 1800 seconds.

Maximum Sessions

Displays the maximum number of allowed sessions for the service.

3.5.13 SMTP

Email notification alerts will be sent while SMTP (Simple Mail Transfer Protocol) is set. This function helps the administrator to be notified when the status of the server changes.

MEGA	RAC							Â	Am Meg	erican atrends
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance		idmini, Adversistrati	r) C Kerresh	wa Print	HELP
SMTP S	ettings									
Manage SMT	P settings of the devic	a.								
LAN Cha	nnel Number	1								
Sender	Address									
Machine	Name									
Primary SMT	P Server									
Server A	Iddress									
🖾 SMT	P Server requires Au	thentication								
User Nar	me									
Passwo	rd									
Secondary S	MTP Server									
Server A	lddress									
SMT	P Server requires Au	thentication								
User Nat	me									
Passwo	rd									
								S	ave	Reset

LAN Channel Number Display the list of LAN channels available. Sender Address The "Sender Address" valid on the SMTP Service. Machine Name

The "Machine Name" of the SMTP Service. Naming criterion please see "HELP".

Primary SMTP Service

Lists the Primary SMTP Server configuration.

Server Address
 The "IP address" of the SMTP Server.

 SMTP Service requires Authentication To enable/disable SMTP Authentication, supports CRAM-MD5, LOGIN, and PLAIN.

- Username

The username to access SMTP Accounts. Username criterion is listed in "HELP".

Password

The password for the SMTP User Account. Username criterion is listed in "HELP".

Secondary SMTP Server

Lists the Secondary SMTP Server configuration. It is an optional field. If the Primary SMTP server is not working fine, then it tries with Secondary SMTP Server configuration.

3.5.14 System and Audit log

System and Audit log page displays a list of system logs and audit logs occurred in this monitored server.

To open System and Audit log page, click Configuration > System and Audit Log from the main menu.

MEGAR	AC								American Megatrends
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance		•admin(Administrator) C	Refresh 🕅 i	Print PLogout HELP
System I	Log Setting	5							
Enable and cor	nfigure logging of sy	stem events below. Or	you can enable/disal	ble logging of audit events. Pre-	ss the Save button to save your changes	i,			
System Lo	og	Enable							
Log Type		Local Log Re	emote Log						
File Size (i	in bytes)	50000							
Rotate Co	unt	0							
Server Ad	dress								
								Save	Reset

System Log

This field is to enable or disable the system logs.

Log Type

Specifies the Log type for system logs, whether it should be preserved in a local file or on a remote server.

Note! Local file resides at/var/log/.



File Size

To specify the size of the file in bytes if the selected log type is local. Size ranges from 3 to 65536.

Rotate Count

When logged information exceeds the specified file size, the old log information automatically gets moved to back up files based on the rotate count value. If the rotate count is zero, the old log information gets cleared permanently each time. Value ranges from 0 to 255.

Server Address

To specify the remote server address to the log system events. Server Address supports IPv4 and FQDN format.

Audit Log

To enable or disable the audit log.

3.5.15 Users

The user management page allows users to view the current list of user slots for the server. User can be added, modified, or deleted.

To open User Management, click Configuration > Users from the main menu.

MEGAR	RAC						American Megatrends
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance		admin(Administrator) C Refresh 🕏 Print 💆 Logout HELP
User Ma	nagement						
The list below	shows the current lis	of available users. To	delete or modify a user	r, select their name in the lis	st and press "Delete User" or "Mo	dify User". To add a new user, select an un	iconfigured slot and press "Add User".
							Number of configured users: 2
UserID	\$	Username 🔺	U	ser Access 🔺	Network Privilege &	SNMP Status A	Email ID A
1		anonymous		Disabled	User	Disabled	
2		admin		Enabled	Administrator	Disabled	
3		~		~	~	-	~
4		~		~	~	~	~
5		~		*	*	~	~
6		~		*		~	*
7		~		*	~	~	-
8		~		-	~	-	
9		~		-	-	-	-
10		*		*	*	*	*

- User ID Displays the ID number of the user (maximum of ten users).
 User Name
- User Name Displays the name of the user.
- User Access
 To enable or disable the access privilege of the user.
- Network Privilege
 Displays the network access privilege of the user.
- SNMP Status
 Displays email address of the user.

To modify or add users by selecting a configured slot or a free slot. Click "HELP" to see the criterion for each column about user privilege and setting.

		• admin(Admin	strator) C Refresh 🕏 Print 🜌 Le
Server Health Remote Control Cont	iguration Auto Video Recording Maintenance	HELP	Modify User
lanag Modify User		E3	Use this form to modify the existing user's password and permission.
w show Username	anonymous	ict an unconfigured slot	Actions User Name The name of the user being
Password Size	Confirm Password 10 Bytes 20 Bytes	r of configured users, 2	Confirm Password To change the user's password, check the 'Confirm Password' online 'This will earthly the
Confirm Password User Access Network Philiege SMMP Access Authentication Protocol Philacy Protocol Email D Email Format	Enable User M Ecolo Rad Only M SHA M ES M AMF Format M	() [Delet Use	baseword Fields. Password Size Size Either 15 Bytes or 20 Bytes password size on be chosen. If 36 Bytes option is chosen, maximum password size is 16 characters. If 20 Bytes option is chosen and the size of the size and the size of the size of the size size of the size of the size of the size of the size of the size of the size of the size size of the size of the size of the size of the size size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the
	l.	Modify Gancel	NOTE: This field will not allow more than 16/20 characters based on Password size field value.
			Check the box to enable user access for the user. Network Privilege Select the level of network privilege to be assigned to this user, 4 levels are available:

3.5.16 Virtual Media

This page is to configure Virtual Media device settings.

To open Virtual Media page, click Configuration > Virtual Media from the main menu.

hboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance	🖣 admin(Administrator) — C Refresh 💎 Print — Lo H
rtual N	Aedia Device	5				
following	option will allow to co	nficure virtual media dev	rices. It also allows	s to enable or disable Local Med	tia support on vitual media devices.	
Floppy de	option will allow to co rvices	nfigure virtual media dev	rices. It also allows	s to enable or disable Local Med	lia support on vitual media devices.	
Floppy de CD/DVD d	option will allow to co wices levices	nfigure virtual media dev	rices. It also allows	s to enable or disable Local Med	lia support on vitual media devices.	
Floppy de CD/DVD d Harddisk	option will allow to co nvices levices devices	nfigure virtual media dev	rices. It also allows	s to enable or disable Local Med	lla support on vitual media devices.	

Floppy devices
 Selects the number of floppy devices that support for Virtual Media redirection.
 CD/DVD devices

Selects the number of CD/DVD devices that support for Virtual Media redirection.

- Harddisk devices Selects the number of hard disk devices that support for Virtual Media redirection.
- Local Media Support
 To enable or disable the local media support for Virtual Media redirection.

3.6 Auto Video Recording

The Auto Video Recording consists of Triggers Configuration and Recorded Video. To set configure triggers for various events, click Auto Recording > Triggers Configuration from the main menu.

MEGAP	RAC					American Megatrends	
						admin(Administrator) C Refresh 🕏 Print 🏾 Logout	
Dashboard	Server Health		Configuration	Auto Video Recording	Maintenance	HELP	
	AR 3102 - 10						
Triggers	Configurati	on		Recorded Video			
This page allo	ws the user to config	ure which events will tr	igger the auto video r	ecording function of the KVM :	server		
Tem	perature/Voltage Cri	tical Events			Temperature/Voltage Non Critical Events		
🖾 Tem	perature/Voltage No	n Recoverable Events			Fan state changed Events		
🖾 Wate	thdog Timer Events				Chassis Power on Event		
E Chas	sis Power off Event				Chassis Reset Event		
E Part	cular Date and Time	Event					
Date:	January	v 1	× 2005 ×]	I DC Report Front		
Time: 00 00 00					La LPL resse Lyent		
						Save Reset	

To open Video recording page, click Auto Video Recording > Recorded Video from the main menu.

MEGAF	AC						American Megatrends
						🕯 admin(Administrator) 🧲 🛱	Refresh 😫 Print 🕞 Logout
Dashboard			Configuration	Auto Video Recording	Maintenance		HELP
Video Re Below is a list selected video	of available recorded	d video files on the BMC	Select a video and p	press the "Play Video" button to	play the video. Select a video and pre	ss the "Download" button to download and save the video. Press the Number	"Delete" button to delete the er of available Video files : 1
	1 A			File Name A		File Information 3	
	1			video_dump_0.dat		Wed Jun 19 17:51:28 2013 Play Video	Download Delete

- #
 - The serial number.
- File Name The video filename.
- File Information
 Day, date and time of video upload.
- Play Video To play the selected video.
- Download
 To download the elected video.

Delete

To delete the selected video.

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 is earlier.

- Further event occurrences will be ignored and no recording will happen, until at least one video file is deleted.
- If the recorded video files are stored in RAM, then those video recordings will not be persistent upon BMC reboot.

3.7 Maintenance

Maintenance for back end management.

3.7.1 Firmware update

An easy firmware update method for users, cancelation is available during the stepby-step process.

Click the Enter Update Mode tab and follow the instruction.

To open Firmware Update page, click Maintenance > Firmware Update from the main menu

MEGARAC	American Megatrends					
Dathboard Server Health Remote Control Configuration Auto V	•admin(Administrator) New Reconflig Hammarance					
Firmware Update						
Upgrade firmware of the device. Press "Enter Update Mode" to put the device in update m	sode.					
WARNING: Please note that after entering update mode widgets, other web pages an	d 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 reset.					
Closing all active client requests. Preparing device for firmware upgrade.	Upload Firmware					
🗖 Uploading firmware image. 💠	Please select the firmware image to flash					
Verifying firmware image. Flashing firmware image.						
Resetting Device.	Resetting Device.					
	Enter Update Mode					



- After entering "update mode widgets", other web pages and services will not work. All open widgets will be closed automatically. If the upgrade process is cancelled in the middle of the wizard, the device will be reset. The browser has to be closed and the user has to log back onto the Internet again before performing any other types of operations.
- Please make sure the chances of a power or connectivity loss are minimal when performing firmware upgrades.

3.7.2 Restore Factory Defaults

This option is used to restore the factory defaults of the device firmware. The system will reboot automatically.

Note!			

After entering restore factory widgets, other web pages and services will not work. All open widgets will be closed automatically. The device will reset and reboot within few minutes.

To open Restore Factory Defaults page, click Maintenance > Restore Factory Defaults from the main menu.



3.7.3 System Administrator

System Administrator page allows a user to change passwords.

MEGARAC						American Megatrends
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance	+admin(Administrator) ⊂ Refresh & Pvint → Lopout HELP
System	Administrato	or				
This page allo	ws the user to enable	eldisable access and o	change the passwore	d for the System Administrator	account.	
Usernam	e	sysadmin				
User Acc	ess	I Enable				
		Change Pa	assword			
Password	d					
Confirm P	Password					
_						

- Username Username of System Administrator is a read only field.
 User Access
 - To enable user access for system administrator.

Chapter 3 Graphical User Interface (GUI)

Password

To change the user's password. The password must be at least 8 characters long, and white spaces are not allowed.

3.8 Log Out

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

MEGARAC			Ameri
ashboard Server Health Remote Control Configuration	Auto Video Recording Maintena	nce	🕯 admin(Administrator) - C Refresh 🕏 Print 🛸 L
Dashboard			
ashboard gives the overall information about the status of the device and re	mote server.		
Device Information	Sensor Monitori	ing	Event Logs
Firmware Revision: 1.3.0			System Event (27.04%)
irmware Bulla Time: May 28 2013 01:21:38 CST	Status Sensor R	eaoing D	PlatformAlert (0.69%) SYSFAN_2.#AN (0.69%)
Vetwork Information (Edit)	Watchoog On	0000 0	SYSFAN_4-FAN (0.52%) SYSFAN_3-FAN (0.69%)
AC Address: 00:08:A8:5F:C8:AF	SEC_Logging Unit	1000 2	SYSFAN_1-FAN (0.69%)
V4 Address: 192.168.0.1	Case_Intrusion Uk	3000 2	+5V (0.66%) +12V (0.05%)
5 Network Mode: DHCP	 PlatformAlert Oxid 	3004 2	Free Space (60.97%)
V6 Address: ::	 INLET-TMP 35 	· c	
Remote Control	 OUTLET-TMP 47 	•c 2•	
Lauren	CPU0-TMP 38	*c	
Refresh 800 x 600	+5V 4.5	35 Volts 🔎	
AND ADDRESS CAREFORDING ADDRESS ADDRES	 +12V 12 	Volts P	
Annual Products Control of States	CPU0_VCORE 1.1	I Volts D	
	• •3.3V 3.3	J3 Volts D	
Re- amante indexe Re- amante indexe Reverse in amante indexe Reverse in amante indexe	VEAT 2.5	V7 Volts	
En Denter and Annual State	+5V98 5.5	Volte P	
	· · · · · · · · · · · · · · · · · · ·	a Volta	
		000 0	
	STSFAN_1-FAN OF		
	SYSFAN_2-FAN 0 F	0°11 P	



Ports Usage

Port #	Owner Module	Usage		
80	Web server	Listening for network connections on HTTP://		
443	Web server	Listening for secured network connections on HTTP://		
5120	CD media server	To accept regular CD media redirection connections		
5123	Floppy media server	To accept regular HD media redirection connections		
5122	HD media server	To accept regular FD media redirection connections		
7578	KVM server (adviser)	To accept regular 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	Eventing daemon's listening port (Implemented, not enabled)		
5988	SFCB(WSMAN)	WSMAN related		
427	SLPD	Service Loater		



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