

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	
Enabling/Disabling Options SEL Components	[Disabled]	Change this to enable or disable all features of System
Erasing Settings Erase SEL When SEL is Full	[No] [Do Nothing]	Event Logging during boot.
Custom EFI Logging Options Log EFI Status Codes	[Both]	
NOTE: All values changed here do not until computer is restarted.	take effect	
		<pre>++: Select Screen \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$</pre>
		F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit
		ESC: Exit
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 M	– Copyright (C) 2011 Amer gmt	rican 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
		++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.14.1219.	Copyright (C) 2011 Americ	an Megatrends, Inc.

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	
2.	Allow popups from this Allow file download fro Enable javascript for this Enable cookies for this r	m this site. (How to 🛂) s site 🥝	

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 Server Health Remote Control Configura	ntion Auto Vid	leo Rec	ording Maint	enance					C Refresh 😡 Print													
Dashboard																						
Dashboard gives the overall information about the status of the device a Device Information	ind remote server.		Sensor Mon					Event Lo														
Firmware Revision: 1.3.0	ſ		sensor mon	itoring				Event Lo	System Event (27.045)													
Firmware Build Time: May 28 2013 01:21:38 CST		Status	Sensor	Reading					PlatformAlert (0.69%) SYSFAN_2-FAN (0.65													
Network Information (Edit)		٠	Watchdog	0x8000	~		(SYSFAN_4-FAN (0.52													
MAC Address: 00:0B:AB:5F:CB:AF		٠	SEL_Logging	0x8000	2				SYSFAN_3-FAN (0.69 SYSFAN_1-FAN (0.69													
V4 Network Mode: Static IPv4 Address: 192.168.0.1		•	Case_Intrusion	0x8000	a,				+5V (0.66%) +12V (0.05%)													
V6 Network Mode: DHCP		•	PlatformAlert	0x8004	م				Free Space (68.97%)													
IPv6 Address: ::		٠	INLET-TMP	35 ° C	4																	
Remote Control		٠	OUTLET-TMP	47 ° C	A.																	
		٠	CPU0-TMP	38°C	Q																	
Refresh 800 x 600																		+5V	4.95 Volts	P		
And and and all the support of the s																				٠	+12V	12 Volts
REFERENCES BEREITEN BEREITEN BEREITEN BEREITEN B		•	CPU0_VCORE	1.1 Volts	A																	
			+3.3V	3.33 Volts	2																	
R Marco Anno R Marco Anno Anno R Marco Anno Anno Anno Anno Anno Anno Anno Ann			VBAT	2.97 Volts	Q																	
Construction Construction			+5VS8	5.1 Volts	م																	

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.

ministrator) 🤇 Refresh 🕏 Print 🏼 Lo		ecording Maintenance	liguration Auto Video R	Remote Control	Server Health
		ecording Maintenance	inguration Auto video k	Remote Control	
					Sensor Readings
Sensor Count: 19 sensors	ior.	f) the live widget for that particular sen	on a record to toggle (ON / OFF	e displayed here. Double	Event Log System Log
			Current Reading 🔺	Status ユ	2
			Ox8000	All deasserted	
ALL DEASSERTED		Watchdog: 0x8000	0x8000	All deasserted	0
to a Manager Mitt		Thresholds for this sensor	0x8000	All deasserted	ion
LIVE WIDGET N/A		Inresholds for this sensor	0x8004	Platform Event Trap Generated	
Upper Non-Recoverable (UNR): N/A	N/A	Lower Non-Recoverable (LNR):	35 ° C	Normal	
Upper Critical (UC): N/A	N/A	Lower Critical (LC):	47 ° C	Normal	P
Upper Non-Critical (UNC): N/A	N/A	Lower Non-Critical (LNC):	38 ° C	Normal	
			5 Volts	Normal	
			12 Volts	Normal	
	tor's events	Graphical View of this sen	1.1 Volts	Normal	RE
		1	3.33 Volts	Normal	
		LNR (0)	2.97 Volts	Normal	
			5.1 Volts	Normal	
		LC (0)	3.3 Volts	Normal	
		LNC (0)	0 RPM	Lower Critical	FAN
			0 RPM	Lower Critical	
		UNR (0)	0 RPM	Lower Critical	
		UC (0)	0 RPM	Lower Critical	FAN
		~ ~ ~ ~	3700 RPM	Normal	
		UNC (0)			
		00.00			
		Other (0)			
		Discrete (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.

ashboard	Server Health Remote Cont	trol Configuration Auto Video Reco			
vent L		uoi comiguiation stato video reco	rding Maintenance		trator) C Refresh 🔂 Print 🖝 t
	.og				POPULATING® 8
ents gener	rated by the system will be logged here.	Double-click on a record to see description			
All Events		• fitter by: All Sensors •			Event Log: 1129 event entries
BMC Tir	mezone 💿 Client Timezone				UTC Offset: (GMT+/-0
vent ID A	Time Stamp A	Sensor Name 📣	Sensor Type 🔺	Description A	
1129	06/15/2013 15:19:22	System Event	System Event	Timestamp Clock Synch - Asserted	9
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	
	01/01/2010 00:00:20	System Event	System Event	Timestamp Clock Synch - Asserted	
1119		System Event	System Event	Timestamp Clock Synch - Asserted	
	06/15/2013 13:55:16		System Event	Timestamp Clock Synch - Asserted	
1118	06/15/2013 13:55:16 06/15/2013 13:55:13	System Event	Character Enderst		
1118		System Event PlatformAlert	Platform Alert	Platform Event Trap Generated - Asserted	
1118 1117 1116	06/15/2013 13:55:13				
1118 1117 1116 1115	06/15/2013 13:55:13 06/15/2013 13:52:23	PlatformAlert	Platform Alert	Platform Event Trap Generated - Asserted	
1118 1117 1116 1115 1114	06/15/2013 13:55:13 06/15/2013 13:52:23 06/15/2013 13:52:21	PlatformAlert SYSFAN_2-FAN	Platform Alert Fan	Platform Event Trap Generated - Asserted Lower Critical - Going Low - Asserted	
1119 1118 1117 1116 1115 1114 1113 1112	06/15/2013 13:55:13 06/15/2013 13:52:23 06/15/2013 13:52:21 06/15/2013 13:52:20	PlatformAlert SYSFAN_2-FAN SYSFAN_4-FAN	Platform Alert Fan Fan	Platform Event Trap Generated - Asserted Lower Critical - Going Low - Asserted Lower Critical - Going Low - 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.

nboard stem	Server Health	Remote Control	Configuration		
	Logs			Auto Video Recording	Maintenance
page dis					
	plays logs of system	n events for this device ()	f the options have be	en configured).	
System	Log				UTC Offset (GM
er by	ritical	-			This Filter: 38 event er
to ob. 1.					
Event ID	Δ	د Time Stamp		HostName A	Description \
1		an 1 00:00:02		AMI000BAB5FCBAF	ntpd(815); (815 CRITICAL);(bipmi_AppDevice.c?14)Could not get permissions on network channel
2	J	an 1 00:00:02		AMI000BAB5FCBAF	ntpd[815]; [815 CRITICAL][user_auth.c.315]Big error getting user info
3	J	an 1 00:00:02		AMI000BAB5FCBAF	IPMIMain: [524 CRITICAL][ChassisTimer.c.194]Chassis interrupts handling failed
4	Ju	an 15 14:32:09		AMI000BAB5FCBAF	IPMIMain: [524 CRITICHL]TransportLANConfig.c.423]LAN or VLAN if current SRC is DHCP/Static and incoming SRC is DHCP/Static, do nothing
5	J.	an 15 14:33:01		AMIGOOBAB5FCBAF	IPMIMain: [524 CRITICAL][Transport/LANConfig.c.423]LAN or VLAN if current SRC is DHCP/Static and incoming SRC is DHCP/Static, do nothing
6	JL	an 15 14:33:45		AMI000BAB5FCBAF	IPMIMain: [524 CRITICAL][Transport/LANConfig.c.423]LAN or VLAN if current SRC is DHCP/Static and incoming SRC is DHCP/Static, do nothing
7	JL	an 15 14:34:19		AMI000BAB5FCBAF	webgo: [503 CRITICAL];web_session_fc_ipmi.c.472]Malformed cookie!!
8	JL	un 15 14:42:47		AMI000BAB5FCBAF	webgo: [603 CRITICAL][web_sessions.c:748]Session cookie not presentPlease login or access everything from the home page
9	JL.	an 15 14:42:47		AMI000BAB5FCBAF	webgo: (603 CRITICAL[web_session_fc_ipmi.c.472)Matformed cookie!
10	JL	in 15 14:45:23		AMI000BAB5FCBAF	webgo: [503 CRITICAL][web_sessions.c:748]Session cookie not presentPlease login or access everything from the home page
11	JL	an 15 14:45:23		AMI000BAB5FCBAF	last message repeated 2 times
12	JL	un 15 14:57:13		AMI000BAB5FCBAF	IPMIMain: [524 CRITICAL][TransportLANConfig.c.423]LAN or VLAN if current SRC is DHCP/Static and incoming SRC is DHCP/Static, do nothing
13	JL	un 15 15:01:15		AMI000BAB5FCBAF	webgo: [503 CRITICAL];web_sessions.c:748]Session cookie not presentPlease login or access everything from the home page
14	Ju	an 15 15:01:15		AMI000BAB5FCBAF	last message repeated 2 times
				*******	IPMIMain: [524 CRITICAL]TransportLANConfig.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.

2 Niewer(10.10.10.1) - 9 fps	- 6 X
Video Keyboard Mouse Options Media Keyboard Layout VideoRecord Help Zoom Size:73%	
Rhoot and Bolet proper Bort device average and Bolet proper Bort device average and Bolet proper Bort device average and Browse Connect Roppy Image Connect Roppy Image	
CD DVD Media1	
ISO Image Browse Connect CD.0VD	
○ E	
Hard diskUSD Key Media1	
HDUSB Image V Browse Connect Hard disk.USB Key	
PhysicaDrive14(g) - US8 PhysicaDrive04(C-0) - Fixed Drive w	
Status	
Target Drive Connected To Read Bytes	
Winual Floppy 1 Not connected n/a Winual OD 1 Not connected n/a Winual HardDisk 1 Not connected n/a	
Redirecting the Devices CDFDHD to host	LALT LCTRL RALT RCTRL Num Copt 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	American Megatrends
Dashboard Server Health Remote Control Configuration Auto Video Recording Maintenance	🕯 admin(Administrator) C Refresh 🕸 Print ൙ Logout 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.

			+admin(Administrator) C Refreth 😒 Print 🐭 Lo
board Server Health	Remote Control Configuration Auto Video	Recording Maintenance	• Gurnary Constructory Construction • • • • • • • • •
tive Directory Set	ttings		
			Advanced Setting
Active Directory' is currently di	sabled. To enable Active Directory and configure its settings	Click on 'Advanced Settings' button.	Advanced Setting
			p or Modify Role Group. To add a new Role Group, select an unconfigured
st below shows the current li			
st below shows the current I nd press Add Role Group.			p or Modify Role Group. To add a new Role Group, select an unconfigured
st below shows the current I nd press Add Role Group.	ist of configured Role Groups. If you would like to delete or r	odify a role group, select the name in the list and press Delete Role Groc	p or Modily Role Group. To add a new Role Group, select an unconfigured Number of configured Role groups
st below shows the current I nd press Add Role Group.	st of configured Role Groups. If you would like to delete or r Group Name 그	oddy a role group, select the name in the list and press Delete Role Grou Group Domain - 3	p or Modify Role Group. Yo add a new Role Group, select an unconfigured Number of configured Role groups Group Privilegel .3
st below shows the current is nd press Add Role Group. International Content of the Content of t	st of configured Role Groups. If you would like to detete or n Group Name	odfy a role group, select the name in the list and press Delete Role Grou Group Domain3	p or Modify Role Group. To add a new Role Group, select an unconfigured Number of configured Role groups Group Phylidge
st below shows the current is nd press Add Role Group. International Content of the Content of t	st of configured Role Groups. If you would like to delete or r Group Name	odly a role group, select the name in the list and press Delete Role Grou Group Denamin -3	p or Modify Role Group. To add a new Role Group, select an unconfigured Number of configured Role groups Group Philologia Li.

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

ishboard Sen	ver Health Remote Control Configuration Auto V	ideo Recording Maintenance	admin(Asministrator) C Refresh 🕏 Print 🖬 Lo
tive Direct	tory Settings		
	is organity disabled. To enable Joke Diractory and configure its settion	Inna (Birk on Malanza) Saltana' Judios	Atlanced Setting
	A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY.		10
			p, select an unconfigured
	154 cm	Enable	
	Active Directory Authentication User Domain Name		 select an unconfigured of configured Role group:
	Adive Directory Authentication User Domain Name Time Out	Enable 120	of configured Role group
	Active Directory Authentication User Domain Name		of configured 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	Video Recording	Maintenance	н
ONS Server Settings	8				
anage DNS settings of the device.					
ost Configuration					
Host Settings	Automatic	•			
Host Name	AMI000BAB5F	FCBAF			
egister BMC					
eth0	Register BM	IC ynamic DNS 💿 DH	CP Client FQDN		
eth1	Register BM Direct Dy	IC ynamic DNS O DH	P Client FQDN		
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

An Me					RAC	MEGAR
🕯 admin(Administrator) े Refresh 🔮 Print	Maintenance	Auto Video Recording	Configuration	Remote Control	Server Health	shboard
					ettings	
Advanced S	up, select the name in the list and press Delete Role Group or	'Advanced Settings' button. e to delete or modify a role grou			ntly disabled. To enab	P is curren
Modify Role Group. To add a new Role Group, select an unconfi Number of configured Role			oups. If you would like	t of configured Role Gr	mby disabled. To enabled shows the current list Role Group.	P is currer list below press Add
Modify Role Group. To add a new Role Group, select an unconfi	up, select the name in the list and press Delete Role Group or Group Search lisse		oups. If you would like		mby disabled. To enabled shows the current list Role Group.	P is currer list below press Add
Modify Role Group. To add a new Role Group, select an unconfi Number of configured Role Group Privilege - 3	Group Search Base 🗳		oups. If you would like	t of configured Role Gr Group Nar	mby disabled. To enabled shows the current list Role Group.	P is currer list below press Add
Modify Role Group. To add a new Role Group, select an unconfi Number of configured Role Group Privilege - 3	Group Search Base 🗳		oups. If you would like	t of configured Role Gr Group Nar	mby disabled. To enabled shows the current list Role Group.	P is currer list below press Add
Modify Role Group. To add a new Role Group, select an unconfi Number of configured Role Group Privilege. J	Group Search Base 🗳		oups. If you would like	t of configured Role Gr Group Mar	mby disabled. To enabled shows the current list Role Group.	P is curren

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	Health Remote Control	Configuration	Auto Video Recording	Maintenance		 admin(Administra 	nor) ⊂ Refresh 🕄 Print 🖃 Logout HELP
LDAP Settings							
LDAP is currently disable	d. To enable LDAP and configure	its settings. Click on	'Advanced Settings' button.				
The list below shows the and press Add Role Grou	Advanced LDAP Setting	5					D, select an unconfigured slot
	LDAP Authentication		E	able			of configured Role groups: 0
Role Group ID 🔺	IP Address						Δ
	Port		389				
4	Bind DN						
	Password						
	Search Base						(mummer over)
						Save	Cancel

3.5.4 Local Media

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

	Remote Control Configuration	Auto Video Recording Maintenance	
ocal Media			
low is a list of available images	on the local media on the BMC. Select a empty	record and press the "Add Image" to upload a new image on the BMC. Select a r	ecord and press the "Replace Image " button to overwrite the existing image or
elete Image" to delete the image			Number of available image
1 A	Image Type A	Image Name 🛆	Image Information
2	CDIDVD		
3	Harddisk		120
			Add Image Replace Image Delete Imag
			[save marke] [Lebrace marke] [Detere mark

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
Mouse N	lode Setting	S				
Redirection cor	nsole mouse mode	settings can be modifie	d here.			
The cur	rent Mouse Mor	de is ABSOLUTE.				
		ommended when serve mmended when server				

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						Redenario	śministrator) 🛇		America Megatren	
Dashboard Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance		• admin,A	prenetrator) %	Retream with		ELP
Network Settings										1
Manage network settings of the dev	ce.									
LAN Interface	9	th0								
LAN Settings	5	Enable								
MAC Address	0	0.0B AB 5F CB AF								
IPv4 Configuration										
Obtain an IP address automat	ically E	Use DHCP								
IPv4 Address	1	92.168.0.1								
Subnet Mask	2	55.255.255.0								
Default Gateway	0	0.0.0								1
IPv6 Configuration										
IPv6 Settings	5	Enable								
Obtain an IP address automat	ically 5	Use DHCP								
IPv6 Address										
Subnet Prefix length	6	4								
Default Gateway										
VLAN Configuration										
VLAN Settings	1	Enable								4
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.

MEGAR	AC					America	İs
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance	🕹 admin(Administrator) - C. Refresh - 🖏 Print - 💌 Log HE	LP
NTP Sett	ings						
Here you can ei	ther configure the N	TP server or view and	I modify the device's D	ate & Time settings.			
Date: Time: (hh.mm.35 UTC Times NTP Serve	cone: (GMT+/		19 * 2013 17 pur(s)	×			
🗵 Autom	atically synchronize	Date & Time with NT	P Server				
						[Refresh] [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 Megatrends
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance	admin(Administrator) ⊂ Refresh Print Plagout HELP
		PAM Circlering for the us	ter außenBcation.			
						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.

and the second second				A Meg
rd Server Hea	alth Remote Control Configuration	Auto Video Recording Maintenance		÷admin(Administrator) ⊂ Refresh 🛛 Print
Managemen	t			
page to configure Ev	vent Filter, Alert Policy and LAN Destination. To de	lete or modify a entry, select it in the list and press	"Delete" or "Modify". To add a new entry, select an uncon	figured slot and press "Add".
ent Filter	Alert Policy LAN Destination			
				Configured Event Filter co
PEFID A	Filter Configuration	Event Filter Action	Event Severity 🗅	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
12	Disabled	[Alert]	Unspecified	Any
13	Disabled	[Alert]	Unspecified	Any
14	Disabled	Alert	Unspecified	Anv
	Disabled	Alert	Unspecified	Anv
	-	Field	h h	
15				
		~		

– 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.

ard	Server Health Remote	Control Configuration Auto Video Reco	ding Maintenance	🗟 admin(Administrator) – 💭 Re	stresh 🗤 Print 🥣
Man	agement				
Walle	agement				
s page to	o configure Event Filter, Alert Pol	icy and LAN Destination. To delete or modify a entry, s	elect it in the list and press "Delete" or "Modify". To add a new entry, select an	unconfigured slot and press "Add".	
Event Fil	ter Alert Policy	LAN Destination			
		100 000 000 000 000 000 000 000 000 000		(red Alert Policy count
				Compu	red Alert Policy count
Nicy Ent	lry∉ → Policy Number →	Policy Configuration Δ	Policy Set $\ \ \Delta$	Channel Number -> D	estination Selector
1	1	Enabled	Always send alert to this destination	1	1
2	*	*	· · · · · · · · · · · · · · · · · · ·	~	~
3	~	-		~	~
4	~	~	-	~	~
5	~		~	~	~
6	~	-	~	~	~
7		-	-	~	-
				~	
8	-		-	-	-
	-	-		~	
8		-		~	~
8 9	-			~	~
8 9 10	-				~
8 9 10 11	-		-	-	
8 9 10 11 12	-	*		~ ~	~
8 9 10 11 12 13	-	~			~
8 9 10 11 12 13 14	-	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	*	~	
8 9 10 11 12 13 14 15	- - - -	* * *	- 	~	*

ooard Serve	er Health Remote Control	Configuration	Auto Video Recording	Maintenance				I
Manager	ment							
is page to config	pure Event Filter, Alert Policy and U	4N Destination. To de	lete or modify a entry, select it i	in the list and press "D	elete" or "Modify". To add a new ent	ry, select an unconfigured slot and presi	s "Add".	
Event Filter	Modify Alert Policy en	itry					123	
	10101020-000						100	
	Policy Entry #		1					
	Policy Number		1	•				
	Policy Configuration			Enable				
	Policy Set		0	-				
5	Channel Number		1	-				
6	Destination Selector		1	-				
	Alert String			Event Specific				
8								
	Alert String Key		0	•				
						[11.00]	0	
						Modify	Cancel	
13		-						
16								

- 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.

MEGARAC				America Megatren
ashboard Server Health	Remote Control Configuration	Auto Video Recording	¥admin(Administrator) ⊂ Refresh © Pri Maintenance	nt 💌 Log Hi
PEF Management				
	Filter, Alert Policy and LAN Destination. To de Alert Policy	lete or modify a entry, select it i	t in the list and press "Delete" or "Modify". To add a new entry, select an unconfigured slot and press "Add".	
LAN Channel: 1 *			Configured LAN Destinatio	n count: 0
LAN Destination	Desti	nation Type 🔺	Destination Address 🗅	
1		~	*	
2		~	,	
3		~	•	
4			•	
5			•	
6		~	*	
7			*	
0		~	*	
9		~	*	
10		~	*	
11		~	*	
12		*	*	
13		-		
14		-		
10				
			Send Test Alert Add Modify	Delete

MEGARAC			
ashboard Server	Health Remote Control Configuration	Auto Video Recording Maintenance	🕯 admin(Administrator) 🗢 Refresh 🕏 Print 🖃 Logo HEI
EF Managem	ent		
se this page to configur	re Event Filter, Alert Policy and LAN Destination. To d	liele or modify a entry, select it in the list and press "Delete" or "Modify". To add a new e	intry, select an unconfigured slot and press "Add".
Event Filter	Add LAN Destination entry		B
LAN Channel: 1	LAN Channel Number	1	LAN Destination count: 0
	LAN Destination	1	
	Destination Type	Snmp Trap -	
	Destination Address	Srimp Trap Email Alert	
4	Usemame	anonymous *	
6	Subject		
7 8	Message		
9			
			Add Cancel
14			

- 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	•admin(Admonstrator) C		American Megatrends						
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance		• admin(Administrator) C	Kerresh 🗤	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	your 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				America			
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance	kadmin(Administrator) ⊂ Refresh 😒 Print 🐷 Lopout HELP		
	re Remote S	0.2020 201	on KVM or Media data	a for the next redirection sessic	n.			
KVM Enci Media En Virtual Me		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.

						1000	
C Refresh 😡 Print 🗧	admin(Administrator) C	•	intenance	o Recording Mainte	Configuration Auto	Server Health Remote Control	board S
							vices
	20.0						
Number of Serv	ation.	Modify" button to modify the services configura	s. Select a slot and press "Modify" button	nation about the services. S	current status and other basic in	services running on the BMC. It shows co	ris a list of a
	ration.			nation about the services. S Interfaces A	current status and other basic in Current State A	services running on the BMC. It shows co	ris a list of s
Number of Serv Maximum Session 20		re Port 3 Secure Port 3					
Maximum Session	Timeout A	re Port 👃 Secure Port 🕁 0 443	A Nonsecure Port A	Interfaces 3	Current State -3	Service Name 3	
Maximum Session 20	Timeout 3 1800	re Port J Secure Port J 0 443 78 7582	A Nonsecure Port A	Interfaces 34 eth0	Current State 👃	Service Name 3 web	1
Maximum Session 20	Timeout A 1800	re Port. J. Secure Port. J. 0 443 78 7582 20 5124	ے Nonsecure Port ک 80 7578	interfaces A eth0 eth0	Current State 3 Active Active	Service Name 3 web kum	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
4	Interfa	aces		eth0	٠		1
	Nons	ecure Port		80			
	Secur	re Port		443			Modily
	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						dmin (Aligoria) sa s	Â		erican atrends
Dashboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance		idmini, Adversistrati	r) C Kerresh	er 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										
🖾 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										
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 co	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.	C. C			
System Lo	og	C 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.

IEGAN	RAC						Ameri Megatr
hboard	Server Health	Remote Control	Configuration Auto V	/ideo Recordin	g Maintenance	÷ adn	nin(Administrator) C Refresh 🕏 Print 🍠 I
er Ma	nagement						
ist below	shows the current lis	at of available users. To	delete or modify a user, selec	their name in the	e list and press "Delete User" or "Modify Us	er". To add a new user, select an unconfigu	red slot and press "Add User".
							Number of configured use
UserID	٤	Usemame A	User Ac	cess A	Network Privilege 3	SNIMP Status A	Number of configured use
UserID	2	Usemame 3	User Aco Disat		Network Privilege 3 User	SNMP Status A Disabled	
UserID 1 2	7			aled			Email ID 3
UserID 1 2 3	7	anonymous	Disat	aled	User	Disabled	Email ID 3
UserID - 1 2 3 4	7	anonymous admin	Disat Enab	aled	User	Disabled Disabled	Email ID 3
UserID . 1 2 3 4 5	Ł	anonymous admin	Disat Enab ~	aled	User Administrator	Disabled Disabled	Email ID 3
UserID 1 2 3 4 5 6	3	anonymous admin ~ ~	Disat Enab ~ ~	aled	User Administrator ~ ~	Disabled Disabled ~ ~	Email ID 3
UserID 1 2 3 4 5 6 7	7	anonymous admin ~ ~ ~	Disat Enab ~ ~	aled	User Administrator ~ ~	Disabled Disabled ~ ~	Email ID A
UserID 1 2 3 4 5 6 7 8	7	anonymous admin ~ ~ ~	Disat Enab ~ ~ ~	aled	User Administrator ~ ~	Disabled Disabled ~ ~ ~	Email 10 3
UsenD 1 2 3 4 5 6 7 8 9	7	anonymous admin ~ ~ ~ ~	Disat Enab ~ ~ ~ ~ ~ ~ ~	kied led	User Administrator ~ ~ ~ ~	Disabled Disabled ~ ~ ~	Email 10 3

- 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.

				strator) 🧲 Refresh 😒 Print 🖃 Lo
board Se	rver Health Remote Control Configu	ration Auto Video Recording Maintenance	HELP	Modify User
er Manag	Modify User		8	Use this form to modify the existing user's password and permission.
				ACTIONS
st below show ress "Add Use	Username	anonymous	rct an unconfigured slot	User Name The name of the user being
		Confirm Password	of configured users: 2	configured (read only). Confirm Password
	Password Size	🐵 16 Bytes 🔿 20 Bytes	D . 4	To change the user's password, check the 'Confirm Password'
	Password			option. This will enable the password fields.
	Confirm Password			Password Size
4	User Access	Enable		Either 16 Bytes or 20 Bytes password size can be choosen.
	Network Privilege	User		Default option is 16 Bytes. If '16 Bytes' option is choosen.
6	SNMP Status	Enable		maximum password size is 16 characters. If '20 Bytes' option is
7	SNMP Access	Read Only		choosen, maximum password size is 20 characters.
9	Authentication Protocol	SHA T		NOTE: For 20 Bytes password, lar session will not be established.
	Privacy Protocol	DES		Password, Confirm Password
	Email ID		in concernance	password here.
	Email Format	AMI-Format	er] Delete User	 Password must be at least 1 character long.
		Land Land		 White space is not allowed. NOTE: This field will not allow more
			Modify Cancel	than 16/20 characters based on Password size field value.
				User Access Check the box to enable user access for the user.
				access for the user. Network Privilege Select the level of network privilege to be assigned to this user, 4 levels are available: Administrator, Operator, User and No Access.
				SNMP Status Check the box to enable SNMP access for the user.

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.

me ara	RAC					America
shboard	Server Health	Remote Control	Configuration	Auto Video Recording	Maintenance	admin(Administrator) ⊂ Refresh S Print S Log
rtual A	ledia Device	e				
		-				
e following-	option will allow to co	nfigure virtual media de	vices. It also allows	to enable or disable Local Med	dia support on vitual media devices.	
Floppy de	nices	1				
Floppy de CD/DVD d		1				
	levices	1				

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						America Megatrer	an ds
							🔒 admin(Administrator) - C Refresh 🕏 Print 🖙 Log	out
Dashboard	Server Health		Configuration	Auto Video Recording	Maintenance			
2000	22 3:52 23			Triggers Configuration				_
Triggers	Configurati	on		Recorded Video				_
This page allo	ws the user to config	ure which events will tr	igger the auto video n	ecording function of the KVM :	server			
🖾 Tem	perature/Voltage Cri	tical Events			5	Temperature/Voltage Non Critical Events		
🖾 Tem	perature/Voltage No	n Recoverable Events			2	Fan state changed Events		
🖾 Wate	chdog Timer Events				E	Chassis Power on Event		
🖾 Chas	sis Power off Event				E	Chassis Reset Event		
E Part	cular Date and Time	Event						
Date:	January	× 1	2005 💌]		LPC Reset Event		
Time: (hh.mm	00	00	00			J LPC Reset Event		
							Save	

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

MEGAR	AC						American Megatrends
						🕯 admin(Administrator) 🛤	Refresh 😫 Print 🖙 Logout
Dashboard			Configuration	Auto Video Recording	Maintenance		
Video Re Below is a list selected video	of available recorde	d video files on the BMC	. Select a video and p		play the video. Select a video and pres		"Delete" button to delete the er of available Video files : 1
	1 A			File Name 3		File Information 3	
	1			video_dump_0.dat		Wed Jun 19 17:51:28 2013 Play Video	Download Delete

- #
 - The serial number. File Name
- 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
Bathboard Server Health Romola Control Configuration Anso V	• admin(Admostrator)
Firmware Update	
Upgrade firmware of the device. Press "Enter Update Mode" to put the device in update m	rode.
WARNING: Please note that after entering update mode widgets, other web pages and	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. 	(20%
Resetting Device.	Upload Cancel
	Enter Update Mode



- After entering "update mode widgets", other web pages and ser-vices 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
ashboard Server Healt	h Remote Control	Configuration	Auto Video Recording	Maintenance	🕯 admin(Administrator) C Refresh 😒 Print 🖃 Logout HELP
System Administra	ator				
		change the passwor	d for the System Administrator	account.	
Username	sysadmin				
Username User Access	sysadmin				
		assword			
	I Enable	assword			

 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			America
ashboard Server Health Remote Control Configurati	on Auto Video Recording Maintenan	.e.)	🕯 admin(Administrator) 🗢 Refresh 🖙 Print 🍃 Log
Dashboard			
ashboard gives the overall information about the status of the device and	I remole server.		
Device Information	Sensor Monitorin	g	Event Logs
Firmware Revision: 1.3.0			System Event (27.04%)
Firmware Build Time: May 28 2013 01:21:38 CST	particular to provide the terms of the second se	gnibe	PlatformAlert (0.69%) SYSFAN 2.FAN (0.69%)
Network Information (Edit)	Watchdog 0x80		SYSFAN_4-FAN (0.52%)
AAC Address: 00:08:A8:5F:C8:AF	 SEL_Logging 0x80 	م 00	SYSFAN_3-FAN (0.69%) SYSFAN_1-FAN (0.69%)
4 Network Mode: Static	 Case_Intrusion 0x80 	م 00	+5V (0.66%)
Pv4 Address: 192.168.0.1 6 Network Mode: DHCP	PlatformAlert 0x80	04 A	+12V (0.05%) Free Space (60.97%)
Nő Address:	INLET-TMP 35*	م ہ	
Remote Control	OUTLET-TMP 47*	م ہ	
	CPU0-TMP 38*	م c	
		Volts P	
mela lata statu i and del si del anciente antipitate. Pa.			
Internet of advances of the second se	 +12V 12 V 		
And and a second	CPU0_VCORE 1.11		
5. 000 D."	 +3.3V 3.33 	Volts 🔎	
Prostante hanne Biologica para provinci farante provinci farante provinci farante provinci provinci provinci br>provinci provinci provinci br>provinci pr	 VBAT 2.97 	Volts 🔎	
En land the	+5VSB 5.11	foits 🔎	
	+3VSB 3.31	íoits 🔎	
	SYSFAN_1-FAN 0 RF	A M	
	SYSFAN_2-FAN 0 RF	A 11	



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	



www.advantech.com

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