AST2150 IPMI Configuration Guide

Version 1.1

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1. IPMI OS Drivers and Open Source Software

AST2150 firmware is full compliant with IPMI 2.0 specification. So users could use standard IPMI driver comes from operation system distribution.

1.1 Windows IPMI Driver

AST2150 supports Intel reference driver, you can get it from

http://www.intel.com/design/servers/ipmi/tools.htm.

From Windows Server 2003 R2, Microsoft also provide in box IPMI driver. You can use it also.

1.2 Open IPMI Driver on Linux

AST2150 supports the Open IPMI driver in Linux Kernel. Use the following commands to load ipmi drivers.

“modprobe ipmi_devintf”

“modprobe ipmi_si”

If you use old version Linux Kernel, you need to replace module “ipmi_si” with “ipmi_kcs”

Note that TYAN motherboard BIOS encodes IPMI Base IO address at 0xCA2 in its DMI table IPMI entry, any generic OS IPMI drivers should have no problem to support it.

1.3 IPMITool and Other Open Source Software

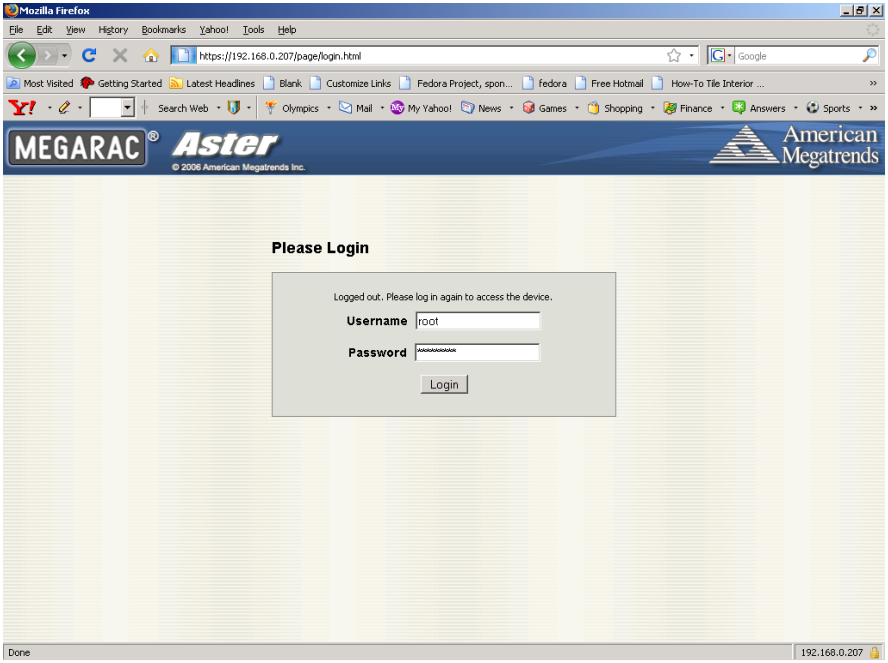
AST2150 supports open source software IPMITool, you can also use other ones like OpenIPMI,IPMI Util. Note that for IPMITool SOL session, user needs to use BIOS setup menu to configure “Remote Serial Console Redirect” to use COMA, and set baud rate to 38.4K, 8 bits, no parity, and Xon/Xoff handshaking.

NOTE

2. ASTER GUI

2.1 ASTER GUI Overview

The AST2150 has a user-friendly Graphics User Interface (GUI) called the **Aster GUI**. It is designed to be easy to use. It has a low learning curve because it uses a standard Internet browser. You can expect to be up and running in less than five minutes.



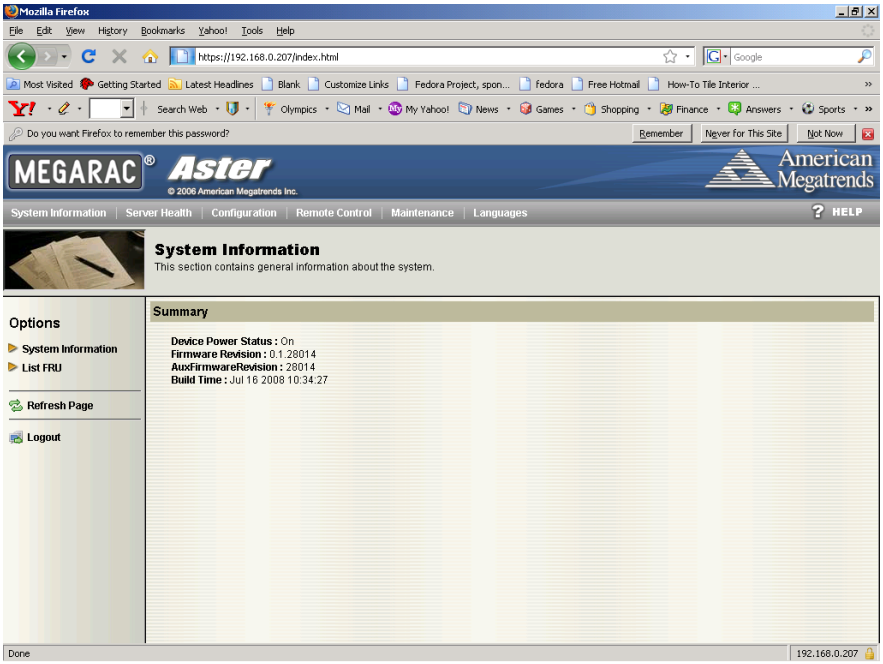
You will be prompted to enter a user name and password. The default user name and password are as follows:

Field	Default
Username	root
Password	superuser

NOTE:
The default user name and password are in lower-case characters.
When you log in using the root user name and password, you have full administrative powers. It is advised that once you log in, you change the root password.

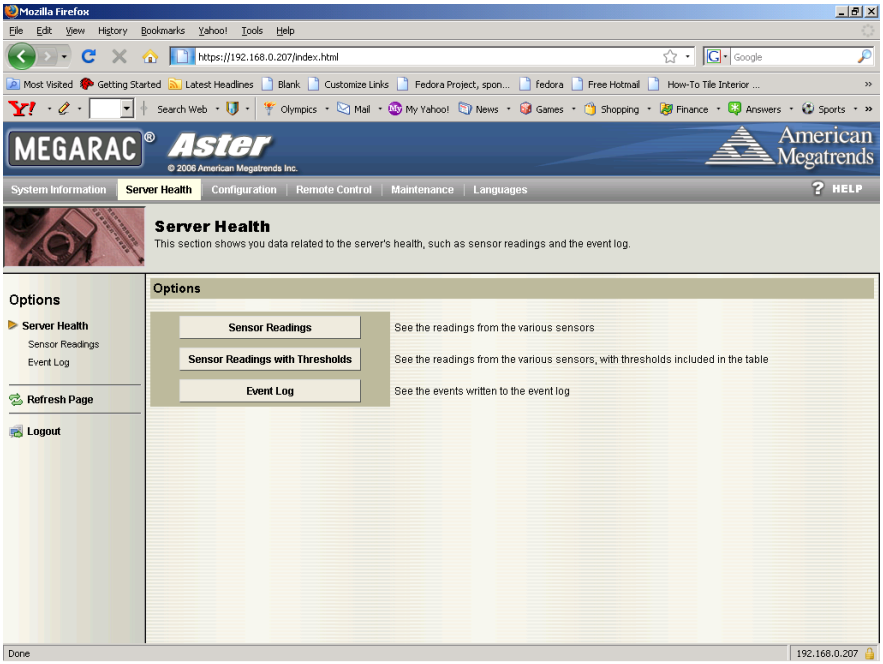
2.2 System Information

This page shows system power on status and firmware revision and its release date.

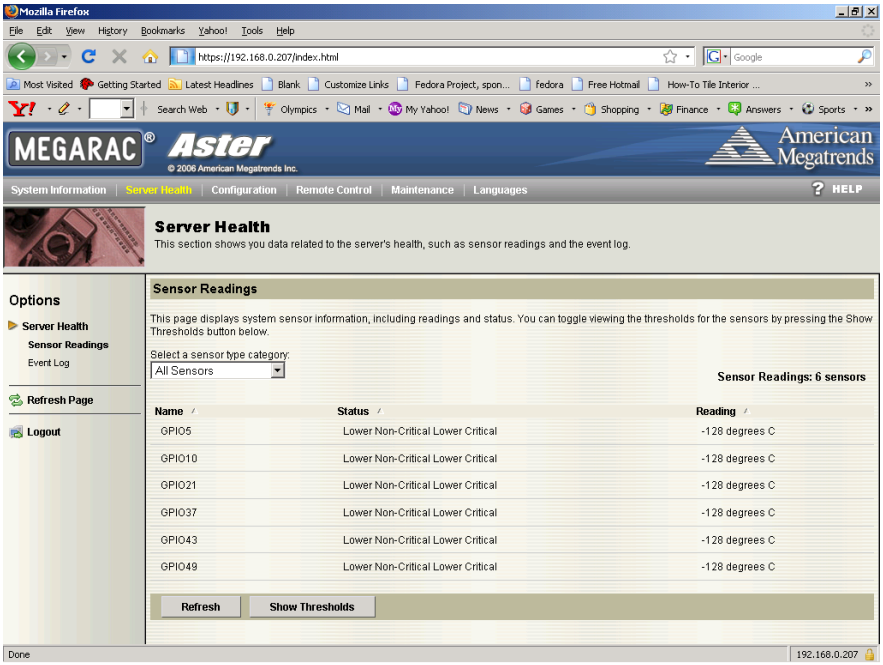


2.3 Server Health

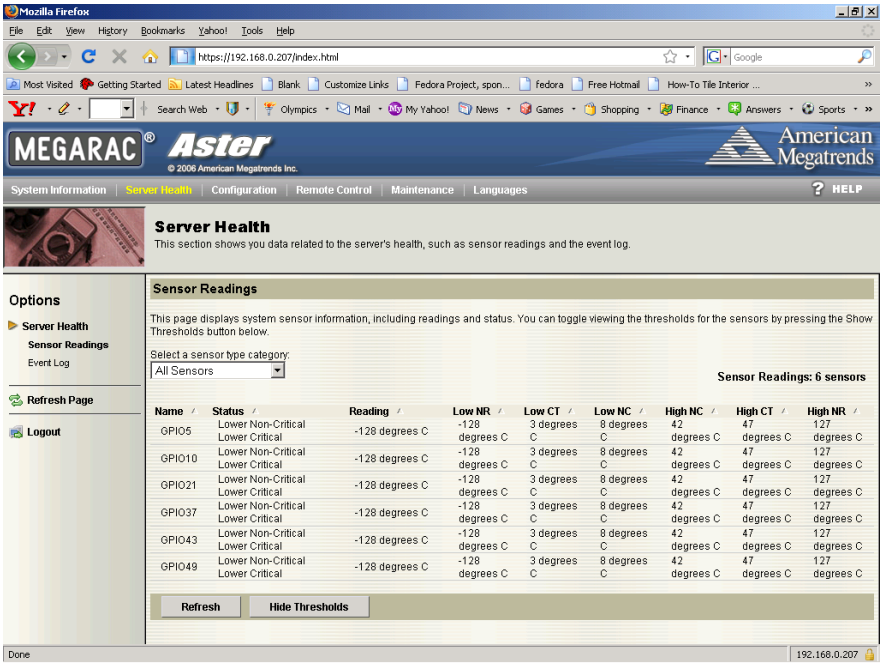
This page contains options to show motherboard sensor readings and events. SDR, Sensor reading, Sensor events (System event log), and PEF (Platform event filters) are implemented in compliant with ipmi2.0 specification.



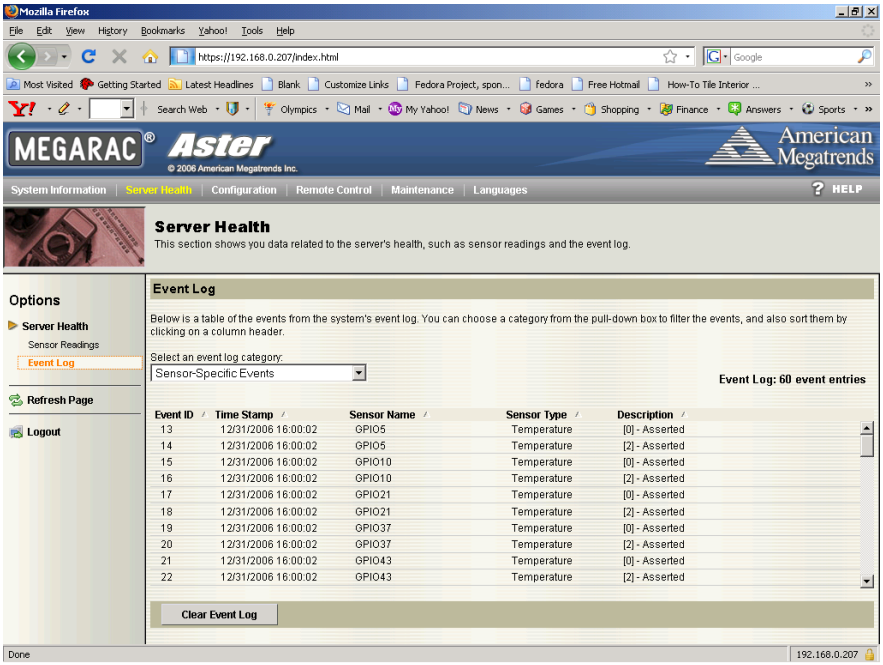
2.3.1 Sensor Reading



2.3.2 Sensor Reading with Thresholds

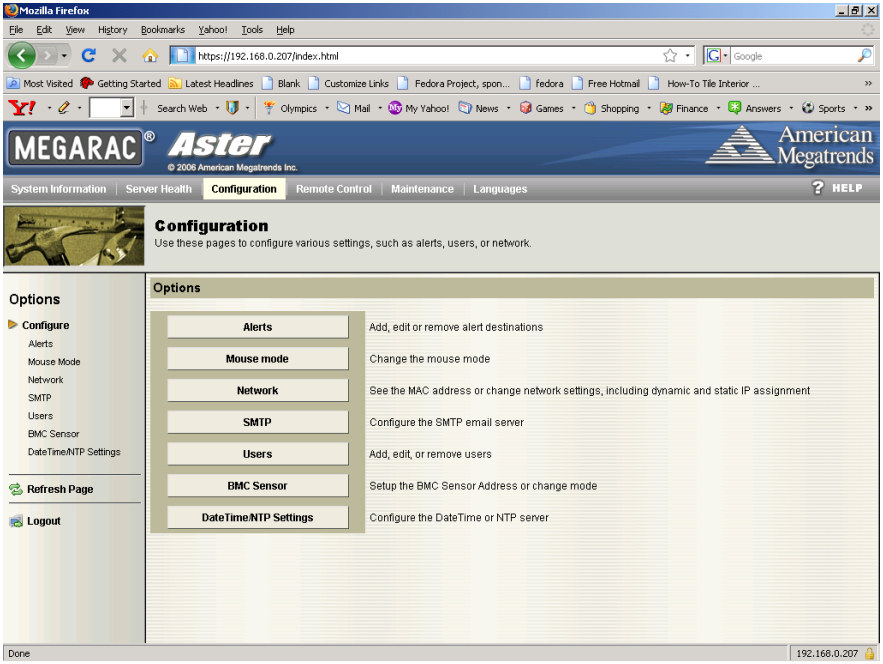


2.3.3 Event Log



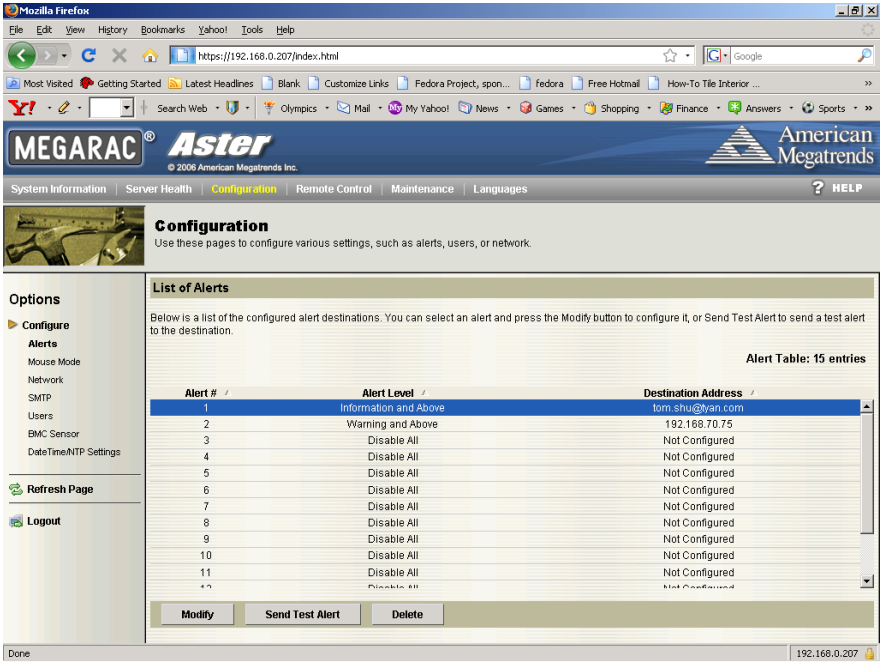
2.4 Configuration

This page contains options to configure Alerts, Mouse mode, Network, SMTP, Users, and Date Time NTP Settings.

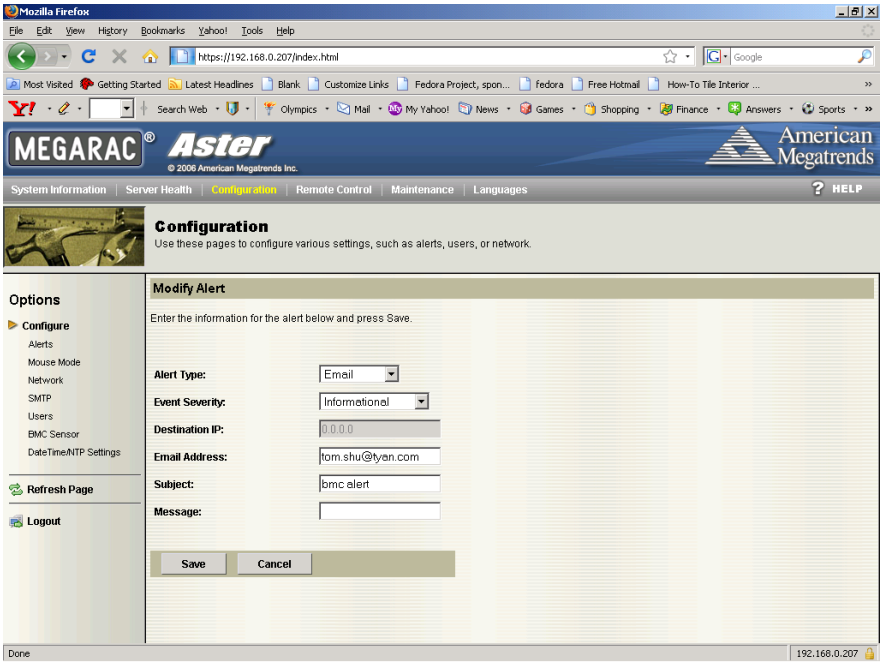


2.4.1 Alerts

This page lists configured alert destinations, use modify button to configure it, or send a test alert to the destination.

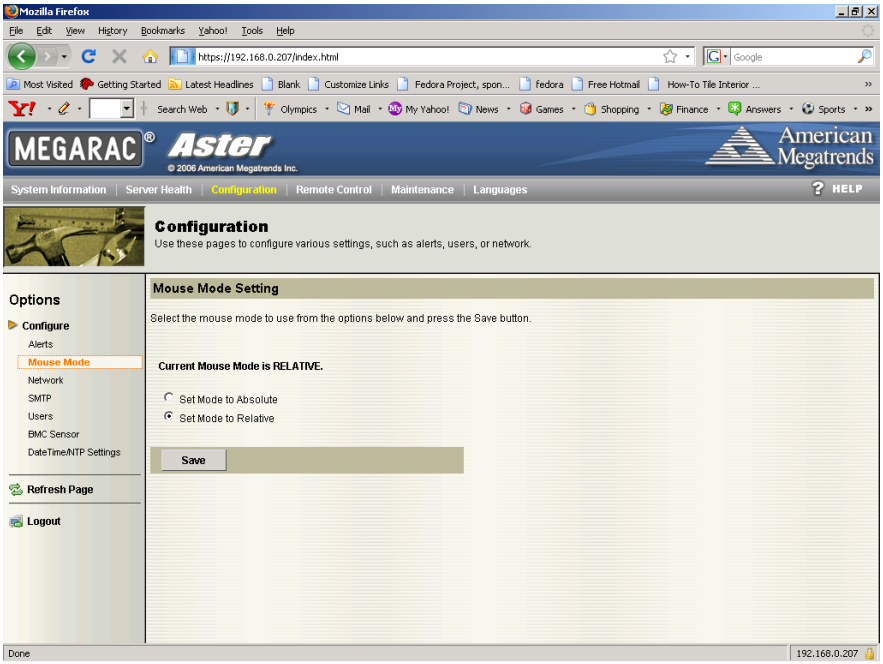


This Modify Alert page contains drop down menu's and fields to configure alert types (email, SNMP traps), event severity, destination IP/Email address, and subject etc.


Mozilla Firefox
File Edit View History Bookmarks Yahoo! Tools Help
https://192.168.0.207/index.html
MEGARAC
Aster
© 2006 American Megatrends Inc.
American Megatrends
System Information | Server Health | Configuration | Remote Control | Maintenance | Languages
HELP
Configuration
Use these pages to configure various settings, such as alerts, users, or network.
Options
Configure
Alerts
Mouse Mode
Network
SMTP
Users
BMC Sensor
DateTime/NTP Settings
Refresh Page
Logout
Modify Alert
Enter the information for the alert below and press Save.
Alert Type:
Email
Event Severity:
Informational
Destination IP:
0.0.0.0
Email Address:
tom.shu@tyan.com
Subject:
bmc alert
Message:
Save
Cancel
Done
192.168.0.207

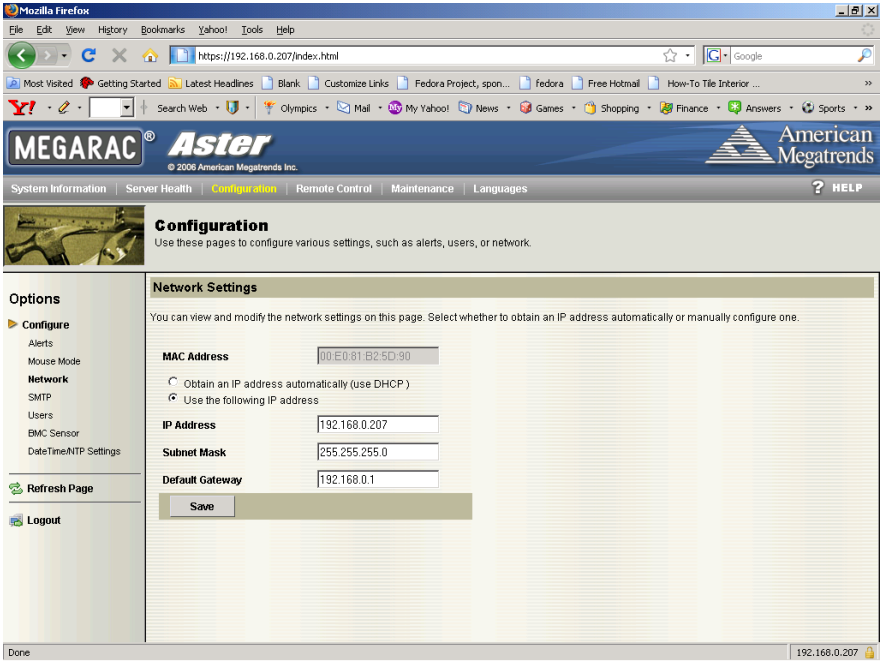
2.4.2 Mouse Mode

This configuration depends on the OS installed on Local Host. Note, it's OS on local host with AST2150, not the remote console.
Most modern Windows versions(2000/XP/2003/Vista/2008) and Mac OS X, use the Absolute Mode.
Relative mode is used by most Linux distributions (SuSE, RHEL) and older operating system like Windows 95/98.



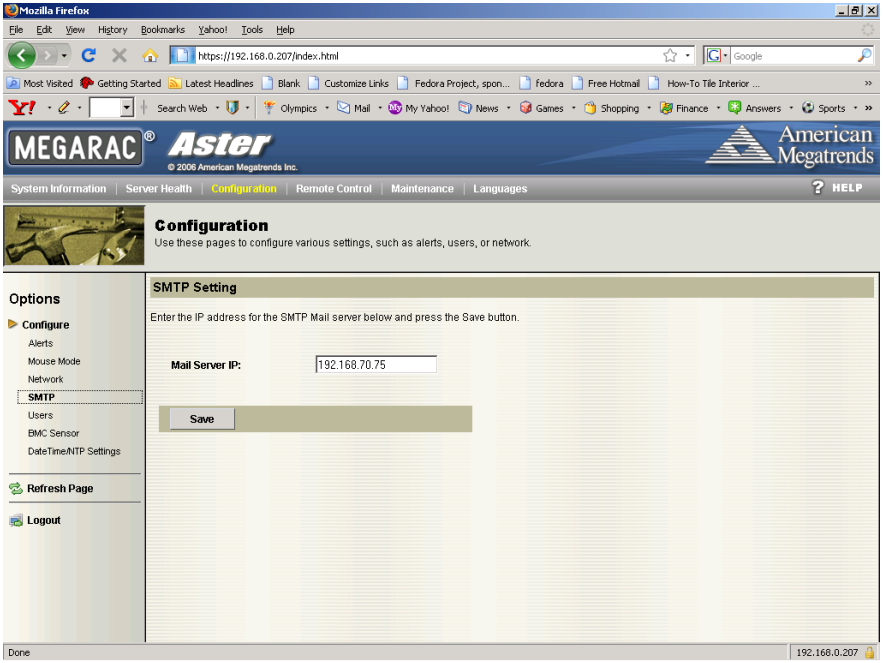
2.4.3 Network

Use this page to view and configure network settings.



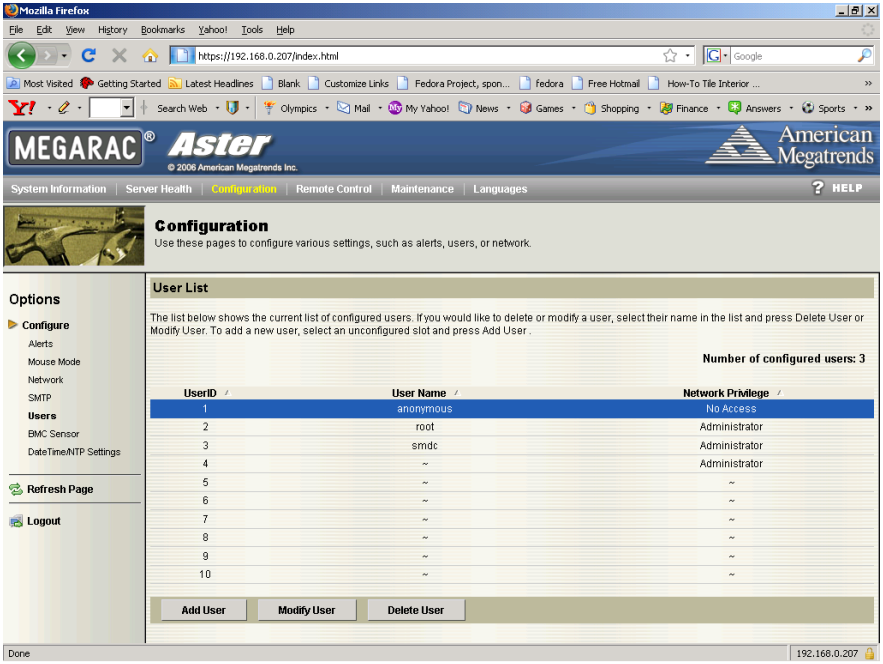
2.4.4 SMTP

For email alert, Enter and Save the SMTP mail server IP in this page.



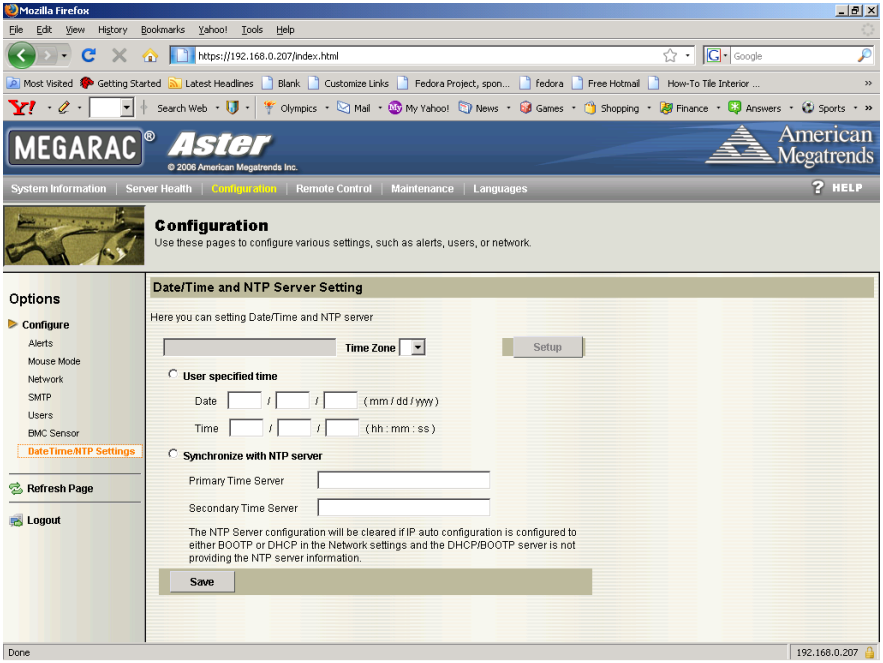
2.4.5 Users

Use this page to add, modify, and delete users. You may select “modify user” and then change each user’s name, password, and privileges.



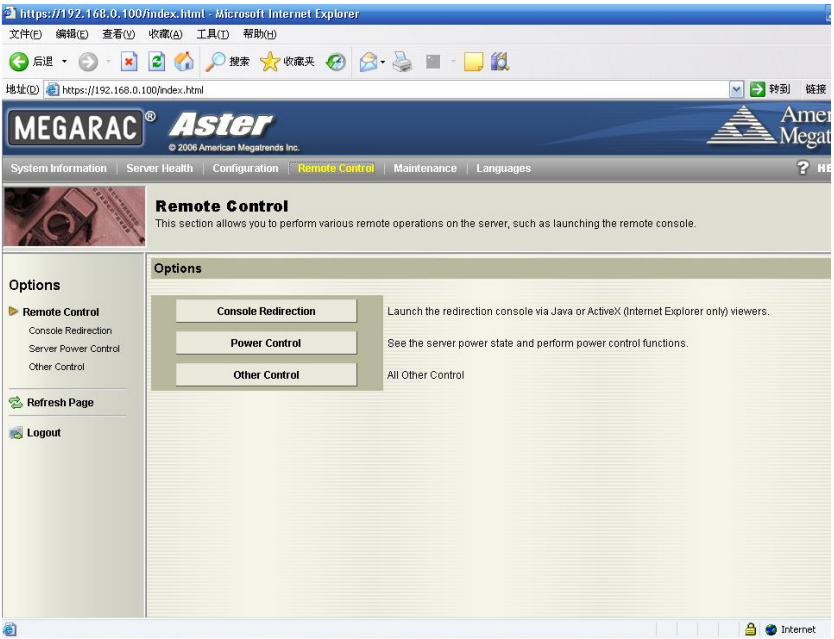
2.4.6 Date Time/NTP Settings

Select options to set date/time.



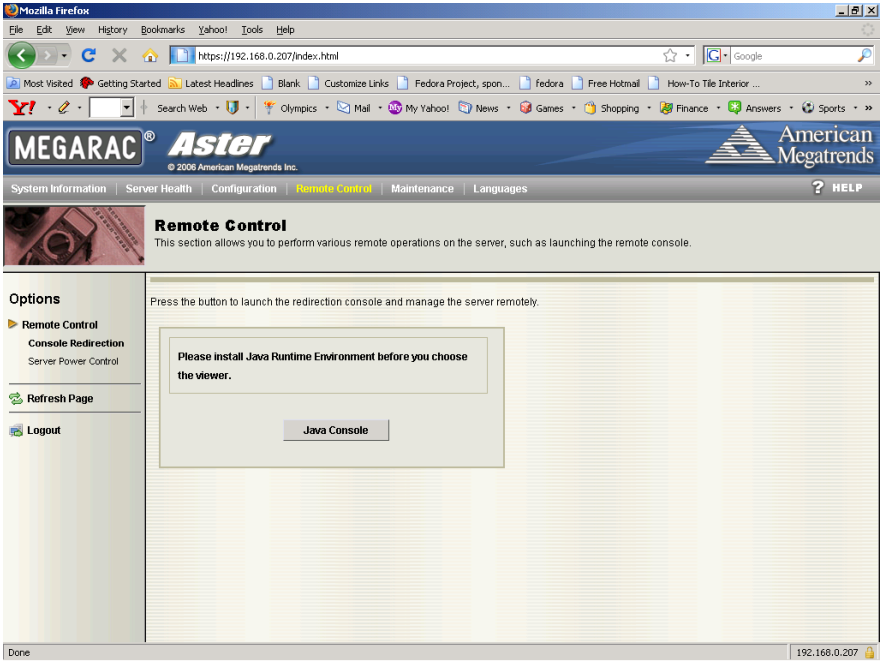
2.5 Remote Control

This page allows user to perform various remote operations such as “Console Redirection” ，“Power Control” and “ Other Control”.

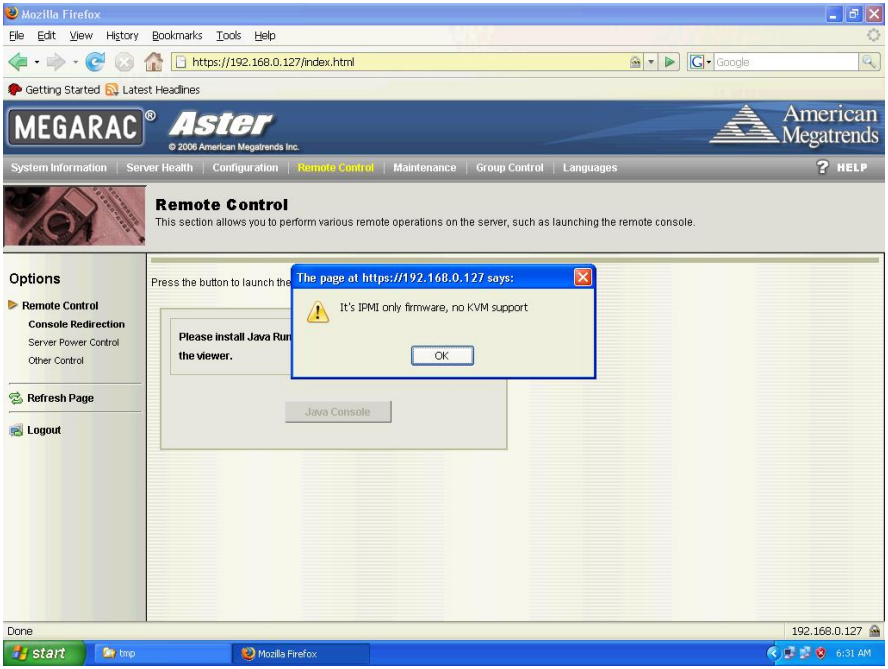


2.5.1 Remote Console Redirection

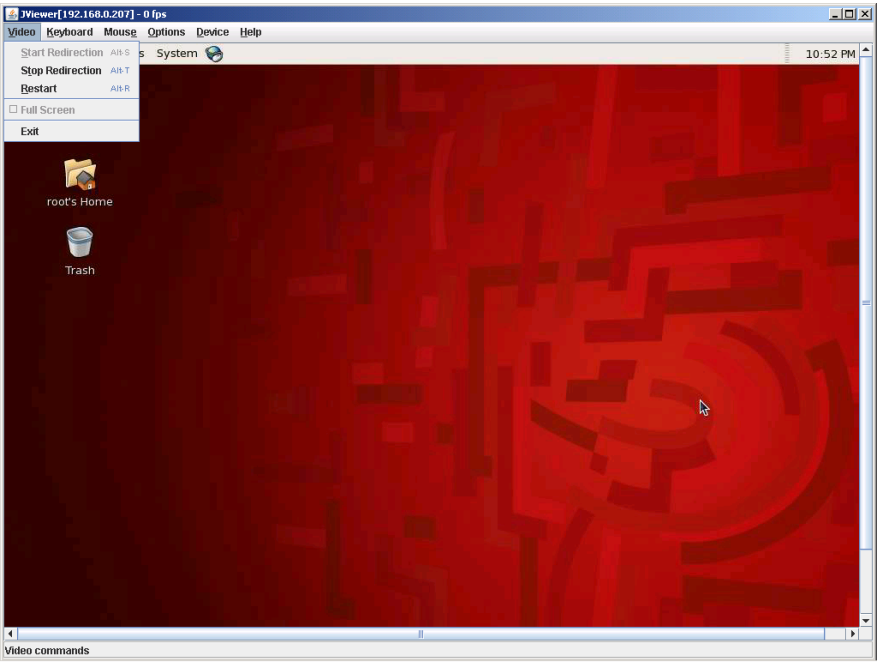
Press “Java Console” button to invoke JViewer to start KVM-over-IP session.



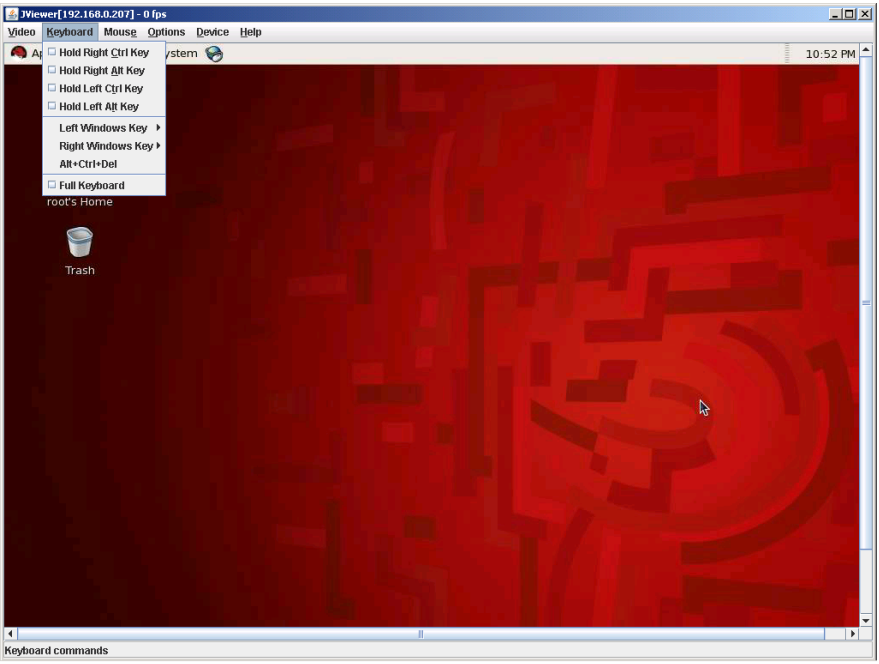
For IPMI only SKU, button “Java Console” will be grayed out and make sure users couldn’t use KVM-over-IP feature.


Mozilla Firefox
File Edit View History Bookmarks Tools Help
https://192.168.0.127/index.html
Getting Started Latest Headlines
MEGARAC® Aster
© 2006 American Megatrends Inc.
American Megatrends
System Information | Server Health | Configuration | Remote Control | Maintenance | Group Control | Languages
HELP
Remote Control
This section allows you to perform various remote operations on the server, such as launching the remote console.
Options
Remote Control
Console Redirection
Server Power Control
Other Control
Refresh Page
Logout
Press the button to launch the
Please install Java Run
the viewer.
Java Console
The page at https://192.168.0.127 says:
It's IPMI only firmware, no KVM support
OK
Done
192.168.0.127
start
tmp
Mozilla Firefox
6:31 AM

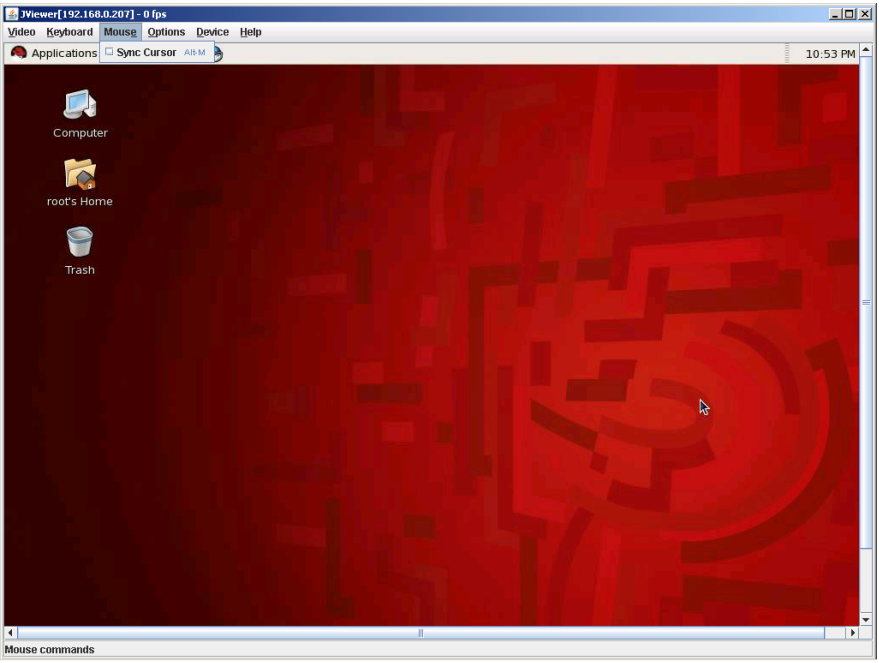
Use JViewer <Video> menu to stop/restart/exit console redirect session.



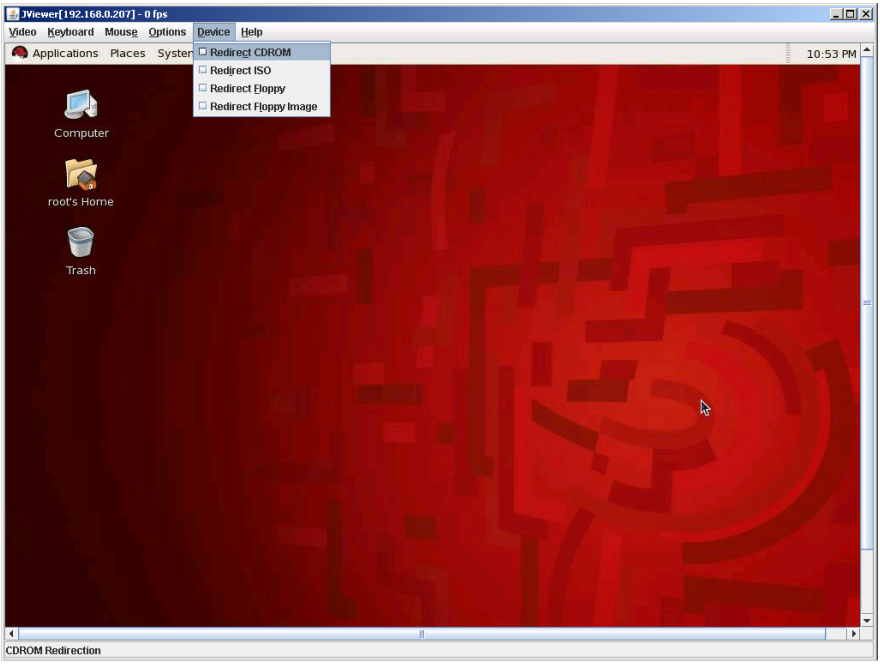
To avoid OS to intercept and interpret special key combinations, you may need to use this drop down menu to send special Key combinations to remote OS.



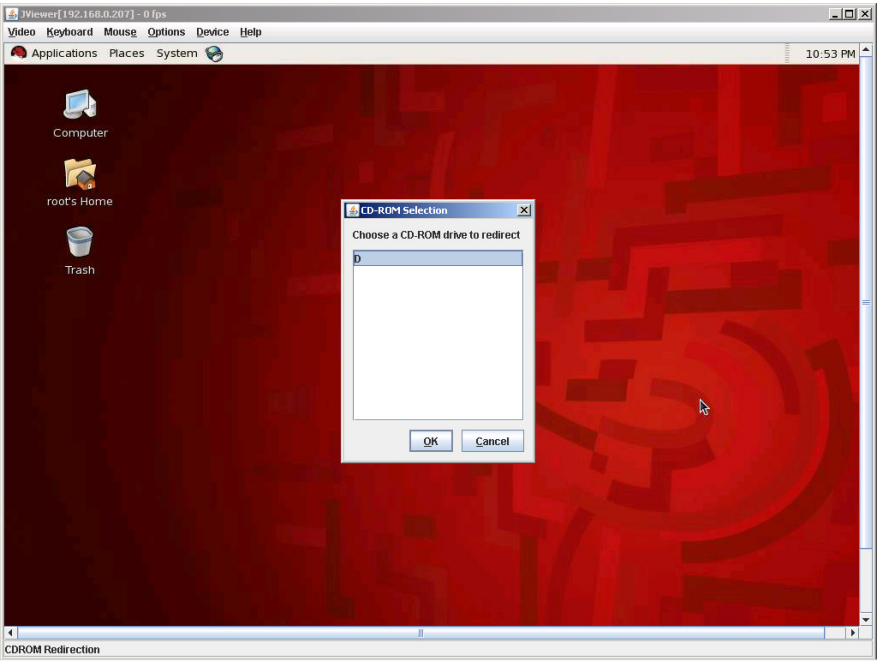
Select <Mouse sync > to allow mouse work correctly within the JViewer redirected remote screen (in sync with remote OS). Press <alt-M> to release “mouse sync” and return mouse control to local OS.



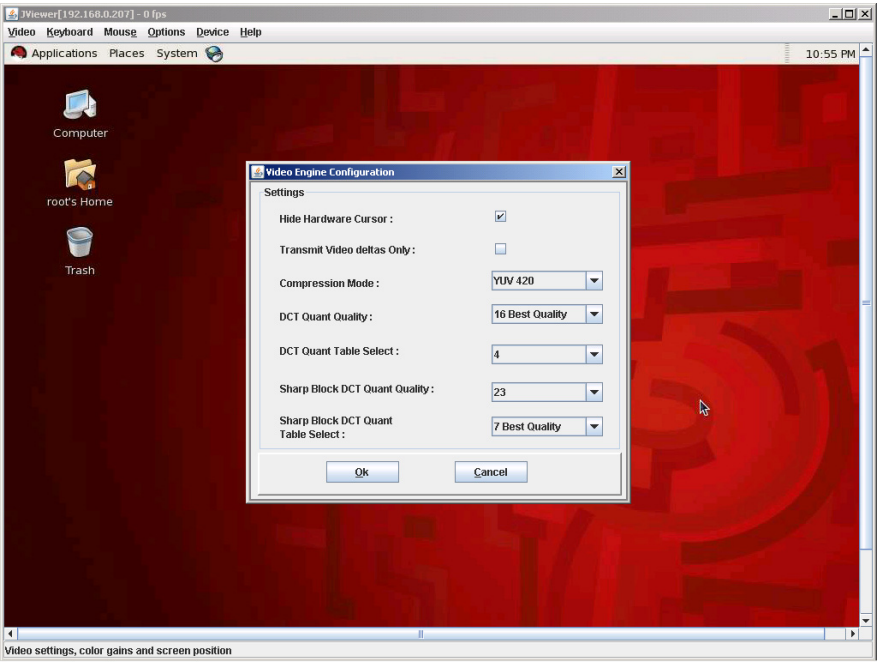
Remote CDROM /Floppy redirection selection.



Choose a local CDROM drive to redirect. Note that you need to configure “Boot order” on remote station (via remote station BIOS Setup, after select CDROM to redirect) before you can let the remote station to boot from the redirected CDROM .

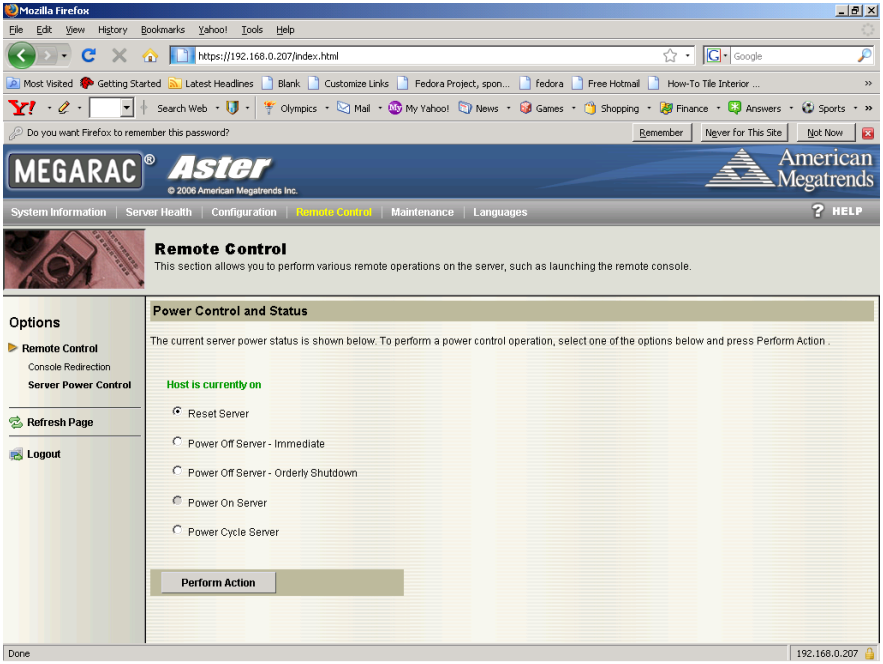


Select <Options> menu to configure KVM-over-IP Video engine.



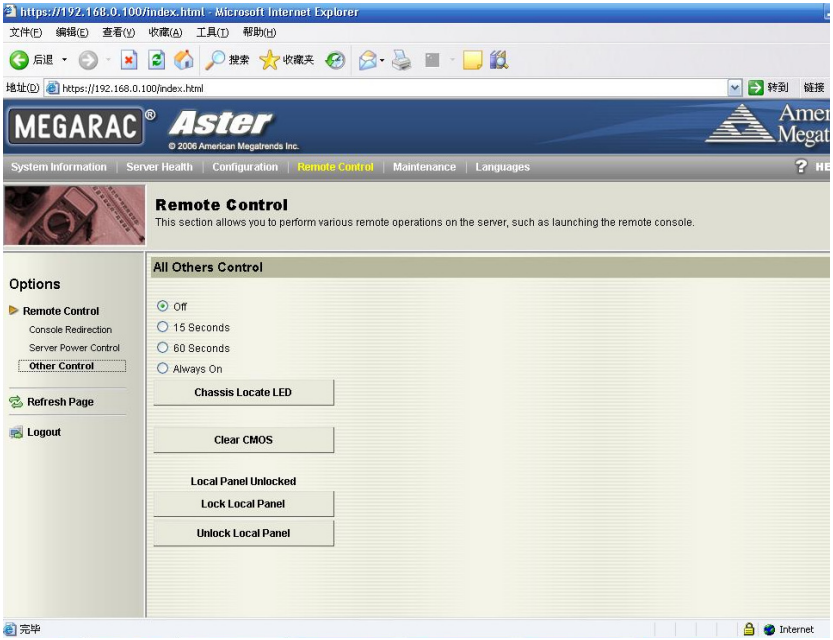
2.5.2 Remote Power Controls

Select options in this page to reset, power off, power on, or power cycle the remote station.



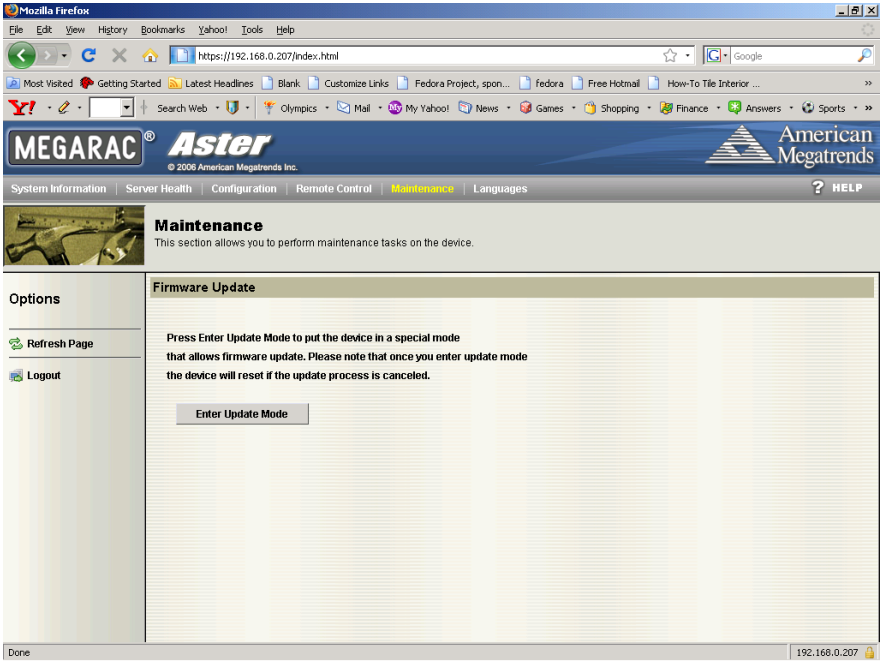
2.5.3 Other Controls

Select options in this page to chassis ID LED check, clear CMOS and local lock panel control the remote station.

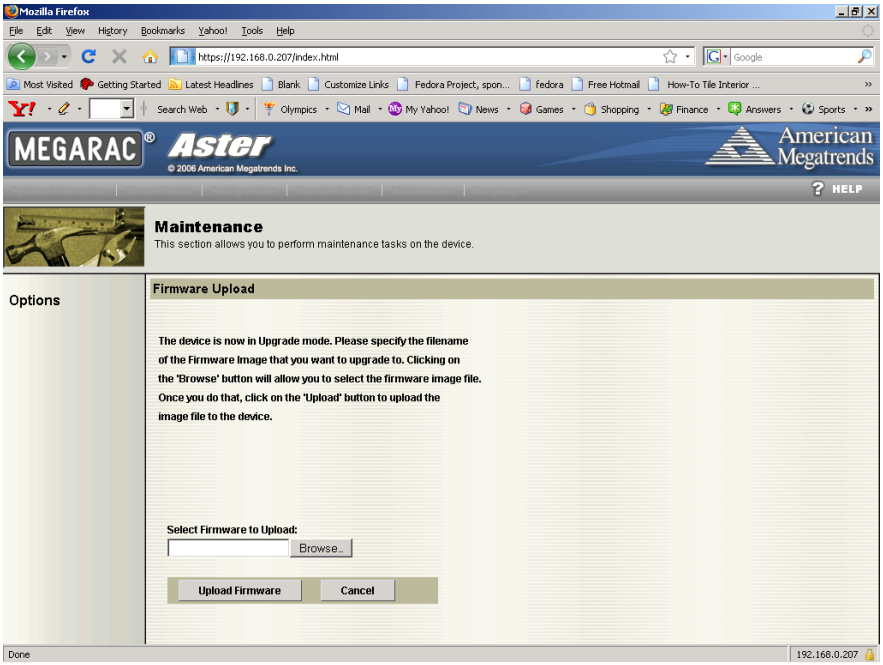


2.6 Maintenance

Need to “Enter Update Mode” in order to flash new firmware.



Select firmware to upload and then press “update firmware” button to proceed firmware update.


Mozilla Firefox
File Edit View History Bookmarks Yahoo! Tools Help
https://192.168.0.207/index.html
MEGARAC
Aster
© 2006 American Megatrends Inc.
American Megatrends
HELP
Maintenance
This section allows you to perform maintenance tasks on the device.
Options
Firmware Upload
The device is now in Upgrade mode. Please specify the filename of the Firmware Image that you want to upgrade to. Clicking on the 'Browse' button will allow you to select the firmware image file. Once you do that, click on the 'Upload' button to upload the image file to the device.
Select Firmware to Upload:
Browse...
Upload Firmware
Cancel
Done
192.168.0.207

NOTE

3. BMC Port Number

This section will list a table of the BMC Port numbers.

BMC Port Number	Web: 80, 443
	KVM: 7578
	CD-Media: 5120
	FD-Media: 5123
	SSH (Smash): 22
	RMCP (IPMI): 623
	UPnP: 1900