

ASMA

ASUS System Monitoring Agent

USER'S MANUAL

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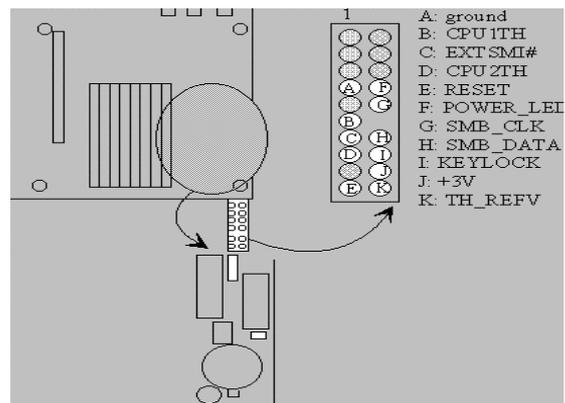
1. INTRODUCTION

ASMA contains ASMA driver for different motherboards and its SNMP agent. Through SNMP Agent, Network management software such as HP OpenView can monitor the system's fan speeds, working voltage and system temperature. SNMP Agent will report to Network Management Station immediately to in case of an error to prevent problems from getting worse when the server's in an abnormal state.

1.1 ASMM Overview

ASUS System Monitoring Module, is a hardware portion of this management environment. There are two kinds of implementation for this part. One is ISA card implementation, the other one is mainboard implementation.

Basically the ASMM card is a 8 bit ISA Server Monitoring Card which includes a 20-pin external feature connector for ASUSTek SMH (Server Monitoring Header).



The connections are classified into 2 categories: Chassis Intrusion and Fan Monitor:
Chassis Intrusion: Chassis Intrusion permits the activation of a user-installed alarm. One 3 wires cable supports the external customized chassis intrusion alarm. The pin definition are : RED (battery power), YELLOW (intrusion signal), and BLACK (ground). The external intrusion signal should be open-drained. Fan Monitor: The fan monitor provides power for up to 3 fan while monitoring the connected fans' rotation through the specially designed tachometer. Three 3 wire cables are used to extend the length of each fan connection. The pin definitions are: YELLOW (tachometer signal), RED (+12V), and BLACK (ground).

The system will be notified when the voltage/temperature/fan speed exceeds the predefined thresholds. The notification mechanism can be as simple as polling or through SMI#/IRQ

service routine, depending on the programming of LM78. Five different choices of ISA IRQ can be selected (IRQ 3,4,5,6,7) through hardware jumper. ASMM function includes the Chassis Fan, CPU1Fan, CPU2 /Power Fan, +3.3V, +5V, -5V, +12V, -12V, System Temperature, Chassis Intrusion, and Automatic Server Restart.

1.2 ASMA Overview

ASUS System Monitoring Agent is a SNMP agent. This software enable the computer to be managed by Network Management Station (NMSs) through Internet. ASUS System Monitoring Agent can report the computer fan speeds, working voltage, system temperature and chassis intrusion to NMS, it can also enable or disable Automatic Server Restart (ASR) function from NMS through the Internet. ASR is a function that reboot the computer system automatically when the computer system is hang. ASR and Chassis Intrusion functions must have ASMM card or its hardware circuit/components installed on the mainboard. There are several manageable environments for ASMA:

NT Performance Monitor

NT Event Viewer

NT Web Administration

LANDesk Server Manager

HP Openview

CA-TNG

Microsoft System Management Server (SMS)

Other SNMP Management Stations

ASUS System Monitoring Agent - it can record the history of ASUS System Monitoring Agent progress status. The status includes the time during which alert events (fan/voltage/temperature) occur and what type alert events (fatal/warning/normal) occur. The status also log the time ASR/Remote Reboot/Chassis Intrusion is enabled or disabled. These status events are all logged in the Windows NT Application event log file. Users can view these event log easily from Windows NT event viewer. These status events can be displayed in different colors (for example, red for critical events, yellow for warning events and blue for normal indication events). Through different color usage, one quick look at the screen will cover the whole scope of every computer status across the enterprise. Users can view another computer's ASUS System Monitoring Agent's event log remotely through the network by Windows NT event viewer too. ASUS System Monitoring Agent provides extensions to the Windows NT Performance Monitor utility that allow you to monitor the computer fan speeds, voltage level and system temperature on either local or remote machines without using a NMS, all you needed is the Windows NT Performance Monitor.

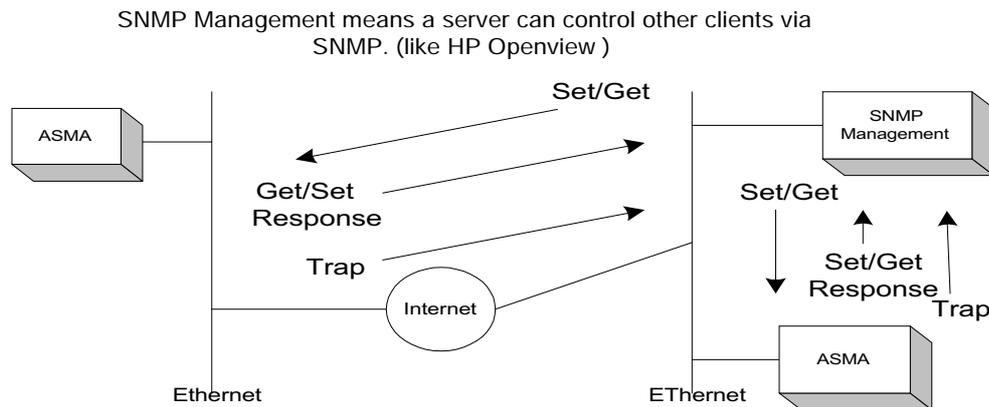
NT Performance Monitor Extension Counters - Performance Monitor groups the counters by object type. After install the ASMA into NT system, a unique set of counters exist for the ASMA system temperature, CPU temperature, Chassis Intrusion

and other object types that produce statistical information. Certain object types and their respective counters are present on all systems.

ASUS ASMM Driver - SNMP extension agent and NT performance monitor extension counters must use this driver to access and control the ASMM hardware.

1.3 SNMP Overview

Simple Network Management Protocol (SNMP) is the most popular network management protocol in the TCP/IP protocol suite. SNMP lets TCP/IP-based network management clients exchange information about the configuration and status of nodes on a TCP/IP-based Internet. The information available is defined by a set of managed objects referred to as the SNMP. The example of SNMP in a network environment is illustrated as follows.



As mentioned above, we will introduce several terminology of SNMP.

Management Information Base (MIB). The subset of managed objects comprising the TCP/IP portion of the MIB is maintained by each TCP/IP node. SNMP also generates trap messages used to report significant TCP/IP events asynchronously to interested clients.

SNMP Get – let SNMP NMS get the value of attribute of managed system, such as fan speed, working voltage and system temperature.

SNMP GetNext – allows the NMS to retrieve the next object instances from a table with an agent.

SNMP Set – set the value of attribute of managed system, such as fan speed threshold, working voltage threshold and system temperature threshold from SNMP NMS.

SNMP Response – be responsible for the response of SNMP GET, SNMP GETNext and SNMP Set.

SNMP Trap – managed computer system can inform some event to the NMS (when the interested attributes, such as fan/voltage/temperature, over or lower the thresholds) asynchronously.



2. FUNCTION DESCRIPTION

There are several functions in ASMA. These functions are described as follows.

ASMA

- is a SNMP agent, and has full SNMP operations.
- has Windows NT performance monitor extensions counter.
- use Windows NT event log to record the important events.
- is more convenient to install.
- has auto detection function for monitoring hardware of different system (such as the number of fans of mainboard).

ASMA consists of full set SNMP operations, such as SNMP Get, SNMP GetNext , SNMP GetResponse, SNMP Set and SNMP Trap, so it can be managed by any kind of SNMP management software. Even, if there is not any SNMP management software in your business, it can also be managed by Windows NT Performance Monitor. Through the ASMA driver, the system information can be retrieved and be shown to the system administrator, so the system administrator can deal with the abnormal activities to avoid the system crash. Furthermore, ASMA is easy to install, and you do not need to reboot your system when the installation is completed.

ASMA provides several different function under hardware requirements, such as monitoring system temperature, fan speed, and voltages, to enhance system stability. And then these functions are separately explained as follows.

1. Temperature monitor: system temperature, CPU 1 temperature and CPU 2 temperature. These recommendation values are illustrated in table 2-1.

Table 2-1 Default Value of Temperature Monitor

	Fatal Low Value	Warning Low Value	Warning High Value	Fatal High Value
System Temp.	-10	0	60	70
CPU1 Temp.	-10	0	60	70
CPU2 Temp.	-10	0	60	70

(Note: The unit specified in the table is in centigrade.)

2. Fan speed monitor: The fan monitor provides power for up to 3 fans while monitoring the connected fans' rotation through the specially designed tachometer. The recommendation values are illustrated in Table 2-2.

Table 2-2 Default Value of Fan Speed Monitor

	Fatal Low Value	Warning Low Value
Chassis Fan 1 (Fan 1)	1500 rpm	2000 rpm
Chassis Fan 2 (Fan 4)	1500 rpm	2000 rpm
CPU1 Fan (Fan 2)	1500 rpm	2000 rpm
CPU2/Power Fan (Fan 3)	1500 rpm	2000 rpm

Note: User must use the CPU2/Power fan with at least 2800 rpm in order to work properly.

3. Voltages monitor: +12V, +5V, +3.3V, Vcore1 (CPU 1 voltage), Vcore2 (CPU 2 voltage). In general, the high/low warning value is (normal value \pm 10%), and the high/low fatal value is (normal value \pm 15%). These recommendation values are illustrated in the following table.

Table 2-3 Default Value of Voltages Monitor

	Fatal Low Value	Warning Low Value	Warning High Value	Fatal High Value
Vcore 1 (2.8v)	2380 mv	2520 mv	3080 mv	3220 mv
Vcore 2 (2.8v)	2380 mv	2520 mv	3080 mv	3220 mv
+3.3 V	2805 mv	2970 mv	3630 mv	3795 mv
+5.0 V	4250 mv	4500 mv	5500 mv	5750 mv
+12.0 V	10200 mv	10800 mv	13200 mv	13800 mv
1.5 V	1250 mv	1350 mv	1650 mv	1750 mv
3VSB	2750mv	2900mv	3600 mv	3750 mv
5VSB	4250 mv	4500 mv	5500 mv	5750 mv
CMOS Battery	2450 mv	2600 mv	3600 mv	3750 mv
NVRAM Battery	2450 mv	2600 mv	3600 mv	3750 mv

4. Chassis intrusion: Chassis intrusion permits the activation of a user-installed alarm. Furthermore, optical chassis detection circuit is also built-in (or external intrusion detection connector is also provided).

5.ASR(Automatic Server Restart): Server can be hard reset after a system hang is detected.

6.Remote reboot: SNMP management can reboot the managed SNMP agent via network.

Besides, due to the different characteristics of each mainboard, there are different functions provided by the hardware. Table 2-4-1/2-4-2 illustrates the differences.

Table 2-4-1 ASMA function for ASMM card and ASUS mainboard

Model / Function	P2B-LS Rev. 1.03 P2B-S Rev 1.03	P2B-D2 Rev 1.02	P2B-DS Rev. 1.03	CUV4X	CUR-DLS	CUR-DLSR
Chassis Fan 1	X	X	X	X	X	X
Chassis Fan 2					X	X
CPU 1 Fan Speed	X	X	X	X	X	X
CPU 2 / Power Fan Speed	X (Power Fan)	X (CPU 2 Fan)	X (CPU 2 Fan)	X (Power Fan)	X	X
Chassis Fan Control				X	X	X
CPU1 Fan Control				X	X	X
CPU2/Power Fan Control				X (Power)	X	X
CPU 1 Vcore	X	X	X	X	X	X
CPU 2 Vcore		X	X		X	X
+3.3V	X	X	X	X	X	X
+5V	X	X	X	X	X	X
+12V	X	X	X	X	X	X
+1.5V				X	X	X
+2.5V				X	X	X
+3VSB				X	X	X
+5VSB				X	X	X
CMOS Battery				X	X	X
NVRAM Battery				X	X	X
System Temperature	X	X	X	X	X	X
CPU 1 Temperature	X	X	X	X	X	X
CPU 2 / Regulator	X (Regulator	X (CPU 2	X (CPU 2		X (CPU 2	X (CPU 2

Temperature	Temp.)	Temp.)	Temp.)		Temp.)	Temp.)
ASR	X	X	X	X	X	X
Chassis Intrusion	X	X	X	X	X	X
Remote Reboot Management	X	X	X	X	X	X
Event Action	X	X	X	X	X	X
SCSI Backplane			X		X	X

(Notes: X is mean its VALUE is VALID in this mainboard)

Table 2-4-2 ASMA function for ASMM card and ASUS mainboard

Model / Function	CUV-LSV
Chassis Fan 1	X
Chassis Fan 2	
CPU 1 Fan Speed	X
CPU 2 / Power Fan Speed	
Chassis Fan Control	X
CPU1 Fan Control	X
CPU2/Power Fan Control	
CPU 1 Vcore	X
CPU 2 Vcore	
+3.3V	X
+5V	X
+12V	X
+1.5V	X
+2.5V	X
+3VSB	X
+5VSB	X
CMOS Battery	X
NVRAM Battery	X
System Temperature	X
CPU 1 Temperature	X
CPU 2 / Regulator Temperature)

ASR	X
Chassis Intrusion	X
Remote Reboot Management	X
Event Action	X
SCSI Backplane	

(Notes: X is mean its VALUE is VALID in this mainboard)

7. ASMA can monitor the BackPlane's DriveBay status, the power system of DriveBay is good or bad, the cooling fan status of the BackPlane and the temperature of the BackPlane. When these BackPlane objects are not at normal status, the ASMA will send snmp trap to SNMP NMS. It can also automatic adjust cooling fan speed depend on the temperature of the BackPlane. Table 2-5-1 show the ASMA function on different BackPlane board . Table 2-5-2 show the ASMA function on AP1400R and AP2400R system.

Table 2-5-1 ASMA function on different BackPlane board

Function	DA-BP5 (Rev 1.03)	DA-BP5E	DA-BP4E	DA-BP3E
Temperature	X	X	X	X
Cooling Fan1 status	X	X	X	X
Cooling Fan2 status	X	X	X	X
Cooling Fan1 Speed (RPM)		X	X	X
Cooling Fan2 Speed (RPM)		X	X	X
+5V (mV)		X	X	X
+12V (mV)		X	X	X
LED/Fan Module status	X	X		
Drive(1~5) Plugin status	X	X	X	X
Drive(1~5) Power status	X	X	X	X
Cooling Fan Speed control	X			
Automatic Cooling Fan Speed Adjust	X			
Cooling Fan Enable/Disable	X	X	X	X
Backplane Configuration Remap	X	X	X	X
Drive Power off	X	X	X	X

Table 2-5-2 ASMA function on different server system

Function	AP1400R	AP2400R	AP110
Temperature	X	X	
Cooling Fan1 status			
Cooling Fan2 status			
Cooling Fan1 Speed (RPM)			
Cooling Fan2 Speed (RPM)			
+5V (mV)			
+12V (mV)			
LED/Fan Module status			
Drive(1~3) Plugin status	X	X	
Drive(1~3) Power status	X	X	
Cooling Fan Speed control			
Automatic Cooling Fan Speed Adjust			
Cooling Fan Enable/Disable			
Backplane Configuration Remap	X	X	
Power Modules Monitor		X	

8. ASMA can light the LED of BackPlane when RaidCard is rebuilding the Raid Drive. ASMA 2.0 can let user to know hard drive status (rebuild, spare, and Failure) by using light the LEDs of BackPlane. User need to install RAID driver and GUI RAID Manager for Windows NT for this feature.

9. ASMA can monitor the CPU1/CPU2/System temperature over the fatal high threshold value, then the event action will occur. The event action have reboot the system, power off the system and shutdown the system.

10. ASMA can light the LEDs to indicate the status of the thermal/fan and power modules:
 - AP1400R: Thermal LED, Fan LED
 - AP2400R: Thermal/Fan Led, Power Supply LED

11. ASMA can show you the FRU information of AP1400R and AP2400R:
 - AP1400R: Mainboard, Backplane1
 - AP2400R: Mainboard, Riser Card, Backplane 1, Backplane 2, Power Cage, Power

Module 1, Power Module 2

AP110: Mainboard

For ASUS Server, there are two method to detect Chassis Intrusion. One is Photo Sensor, another is Micro Switch. Table 2-5 describe the difference method for ASUS Server.

Table 2-5 Chassis Intrusion Detection Method for ASUS Server

ASUS Server Type	Chassis Intrusion detection Method
AP100	Photo Sensor
AP2000	Micro Switch
AP2500	Micro Switch
AP3000	Micro Switch
AP6000	Micro Switch
AP7000	Photo Sensor
AP7500	Micro Switch
AP8000	Micro Switch
AP1400R	None
AP2400R	None
AP110	None

Finally, frequencies generated by different SNMP traps are described as follows. The Fatal SNMP Trap duration is 10 sec by default. The Warning SNMP Trap duration and the Chassis Intrusion SNMP Trap duration are 20 sec and 60 sec individually. The Fatal SNMP Trap duration can be changed via set-operation of SNMP from smPollFreq MIB object. But the Warning SNMP Trap duration and the Chassis Intrusion SNMP Trap duration can not be changed to any value, and they must be the 2 and 6 multiples of the Fatal SNMP Trap duration respectively.

3. INSTALLATION PROCEDURES

ASMM card

1. Plug the ASMM card onto your computer.
 2. Make sure the ASMM card is in a ISA slot correctly.
 3. Be sure the server monitor signal connector is connecting to motherboard server connector.
 4. Be sure the CPU1 Fan and CPU 2 Fan connector is connected properly.
 5. Be sure the Reset signal connector is connecting to motherboard Panel connections.
 6. Be sure the Chassis connector is connecting to motherboard external micro-switch.
- Important! If your motherboard is equipped with the LM78 chipset, your system will report a warning since both LM78 use the same I/O address. Please refer to ASMM user's manual for more information.

Motherboards embedded ASMM

1. Make sure the motherboard is P2B-LS, P2B-DS, P2B-D2.
2. Be sure the CPU Temp. cable is connecting to motherboard connector.
(for P2B-LS → TRCPU connector)
(for P2B-DS → JP4 and JP5 connector)
(for P2B-D2 → J1601 and J1602)

3.1 Operation System Requirements

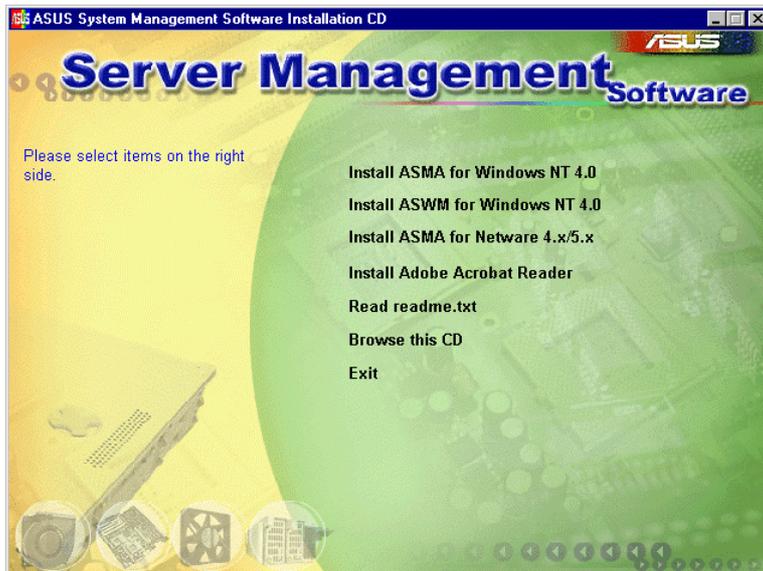
ASMA can support both Windows NT Server and Windows NT Workstation, but you must install the SNMP service first before you install the ASMA to a NT system. If you already installed a previous version of ASMA in the NT system, you must uninstall the older version before you installing the new version of ASMA into a NT system.

(Please install the NT SNMP service first)



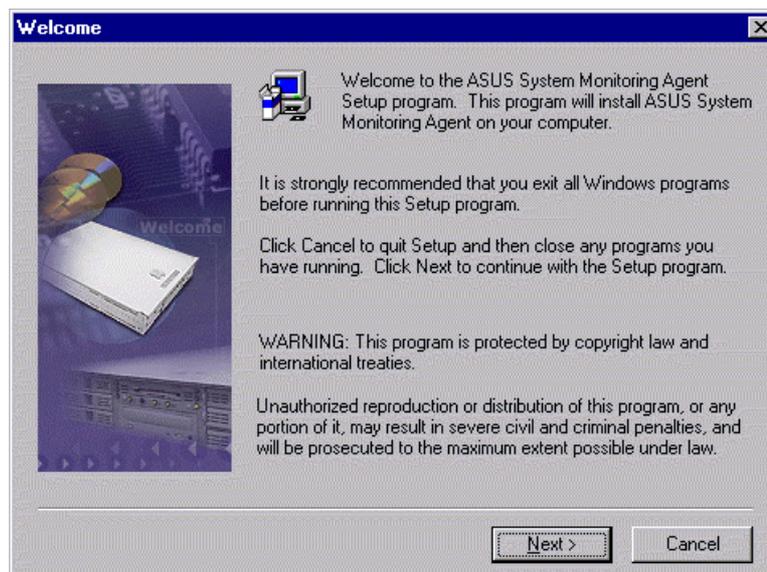
3.2 Installing ASMA into NT or Windows 2000

1. Insert the ASUS installation CD or disk. The ASUS install shell will appear. If it does not appear, run \Assetup.exe. You will be presented with a list of installed options.

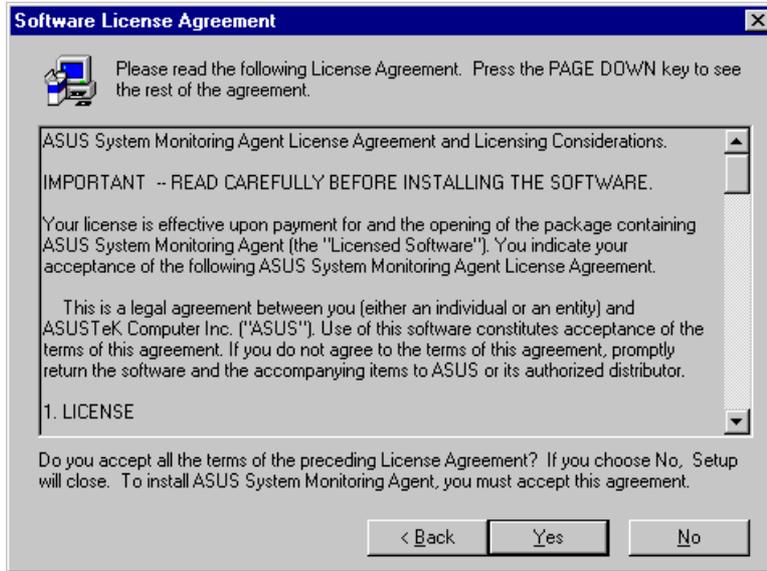


Select Install ASMA for Windows NT4.0 or Windows 2000

2. Click the install ASMA and a welcome message appears.

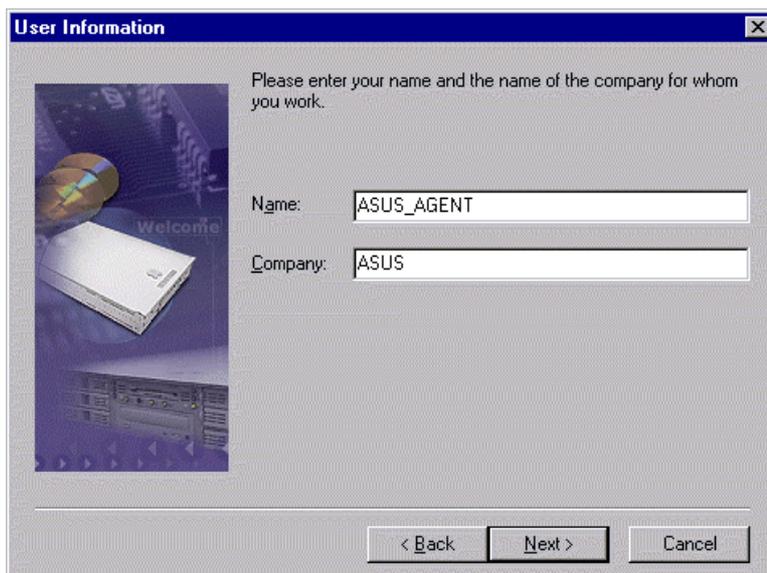


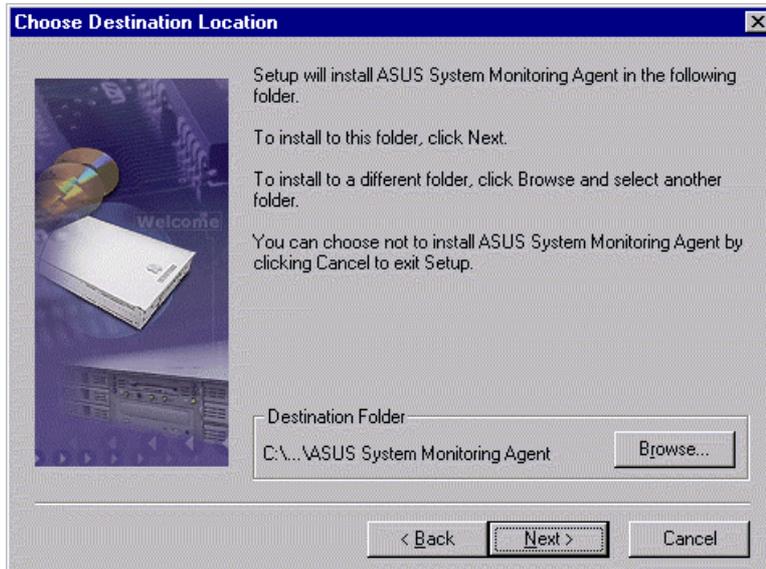
3. ASMA program will stop and restart your NT SNMP service.



Read the License Agreement, then press Yes button to install.

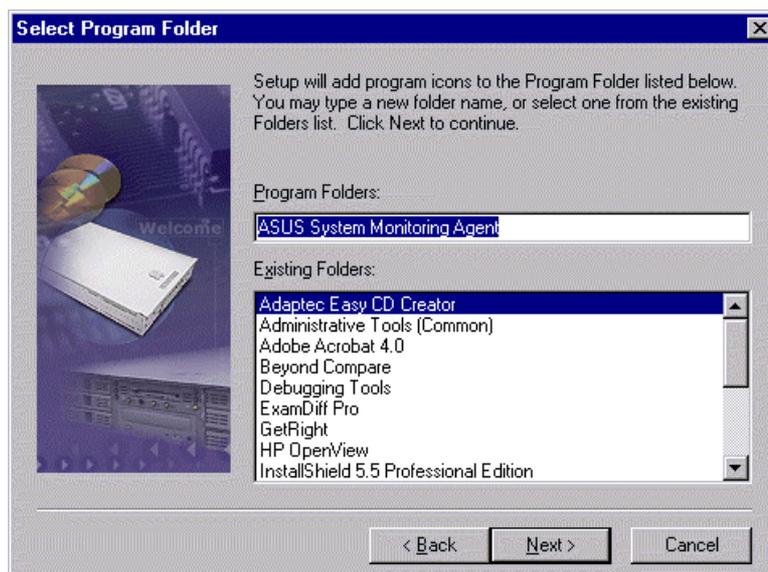
4. Please type your name and company.



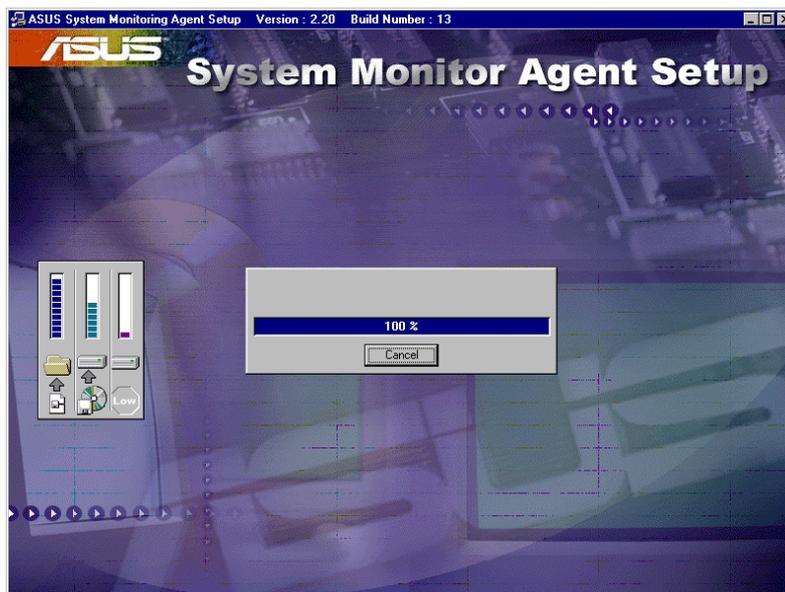
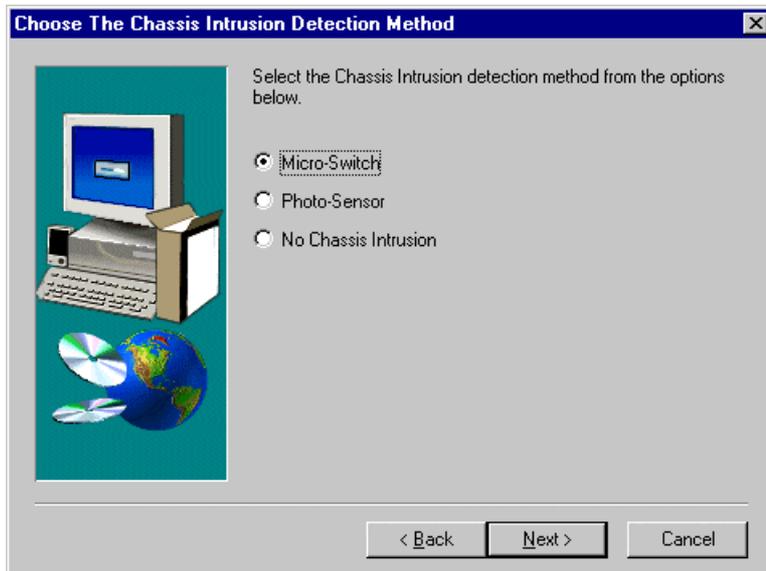


5. Choose a destination location.

6. Select program folder.

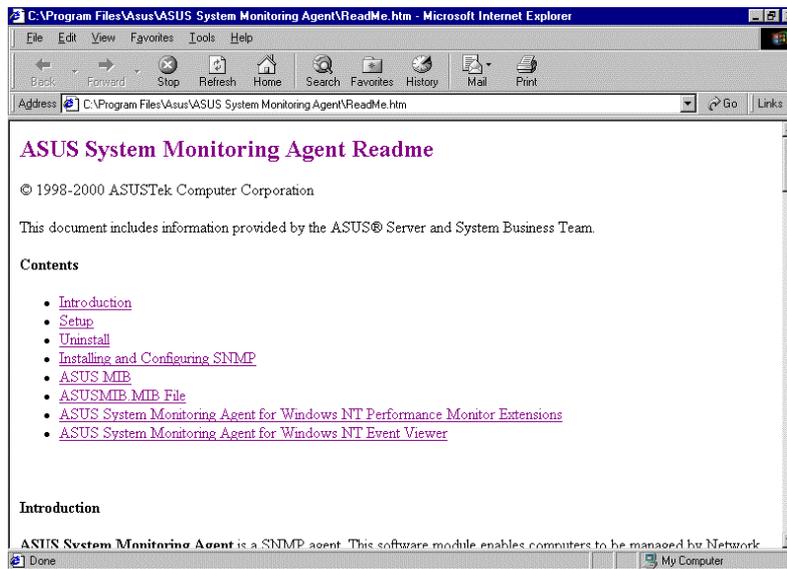
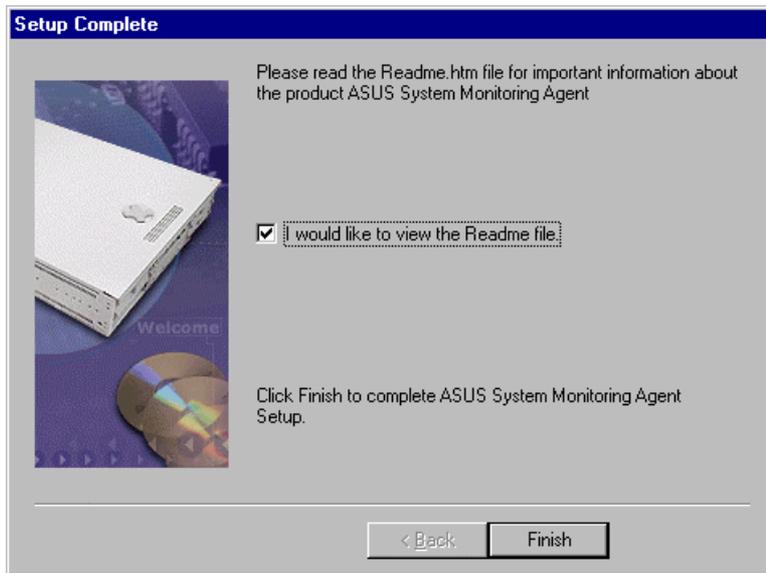


7. Select the Chassis Intrusion detection Method. (Reference Table 2-5)
- a. AP100 support Photo Sensor.
 - b. AP2000, AP2500, AP6000, AP7500 support Micro Switch.
 - c. AP7000 will not pop up this dialog box, it support Photo Sensor Only.
 - d. AP1400R and AP2400R will not pop up this dialog box.



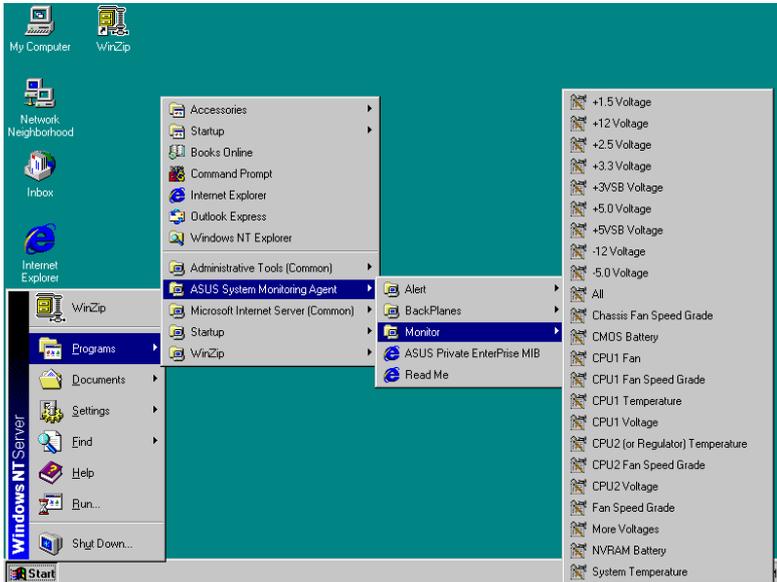
8. Start to copy files to system.

9. Click **I would like to view the Readme file**, if you want to view it.
A setup complete dialog box appears, click Finish to complete the setup.



10. Show readme.htm in web browser.

11. After the program installation is completed, you should be able to see it from the application program list menu invoked by the START button.

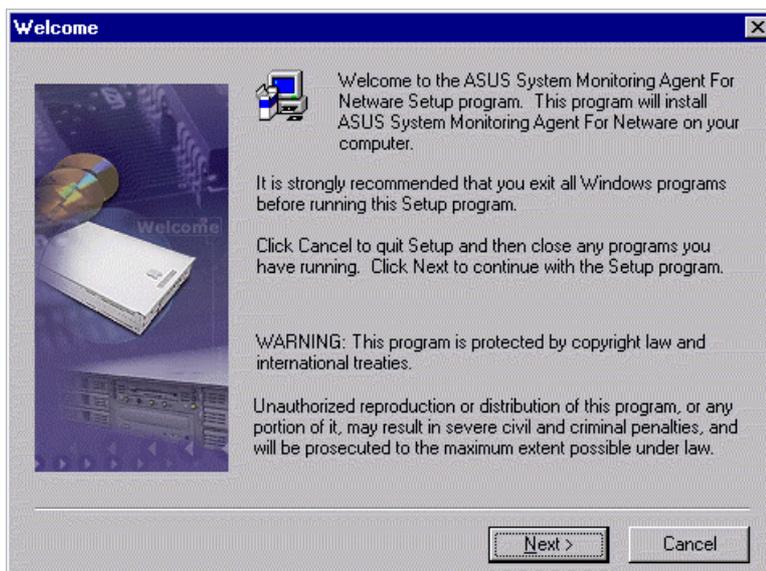


3.3 Installing ASMA into Netware 4.x/5.x

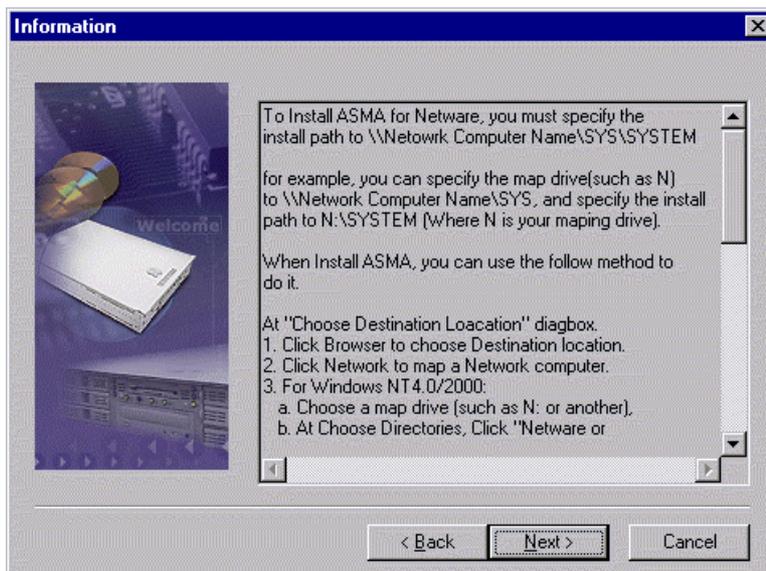
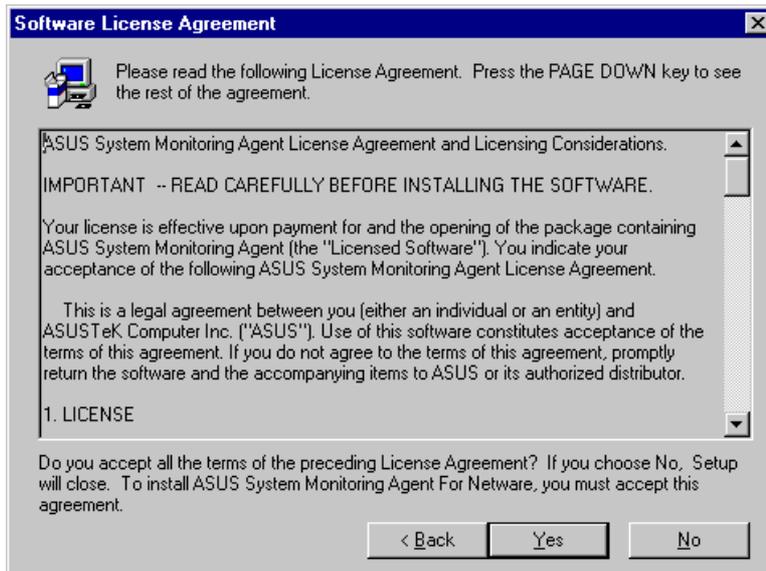
1. Insert the ASUS installation CD or disk. The ASUS install shell will appear. If it does not appear, run \Assetup.exe. You will be presented with a list of installed options. Select Install ASMA 2.0 for Netware 4.x/5.x



2. Select Next install ASMA for Netware

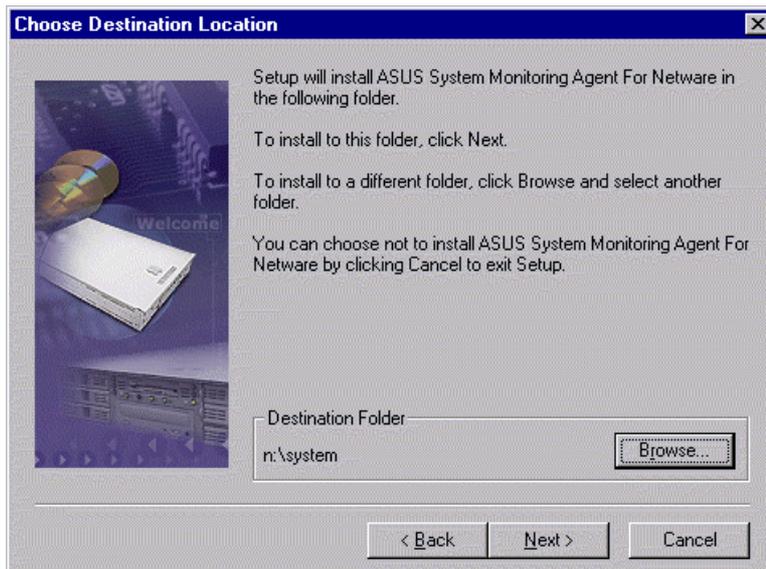
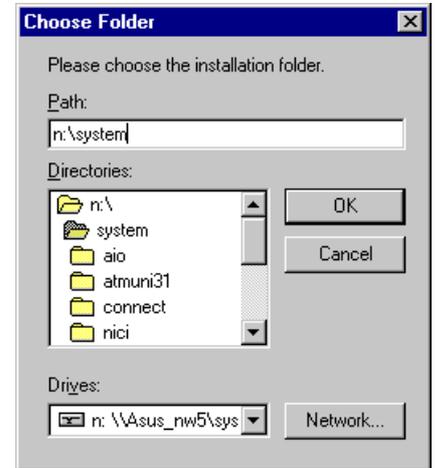
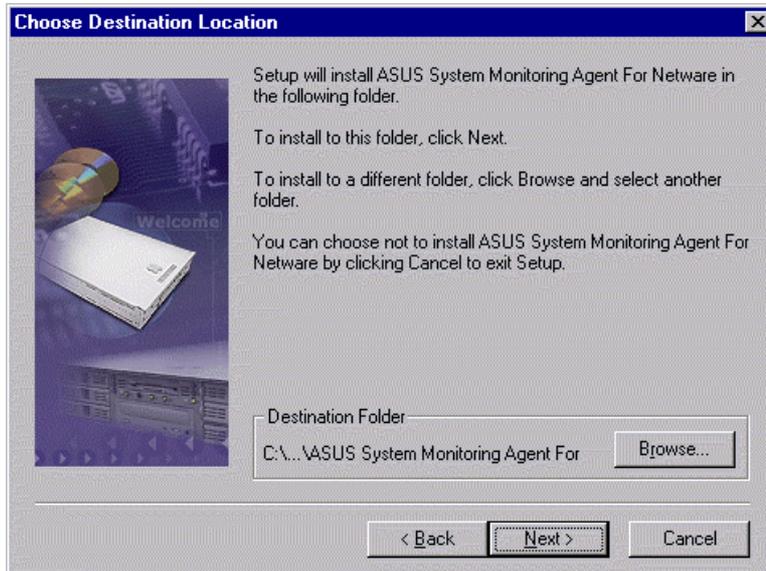


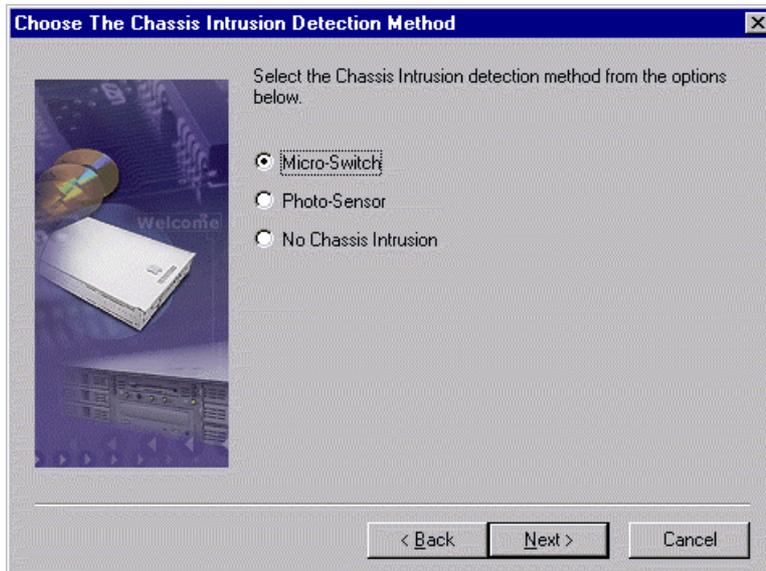
3. Read the License Agreement, then press Yes button to install



4. Check a network driver have been map , then press Yes button to install

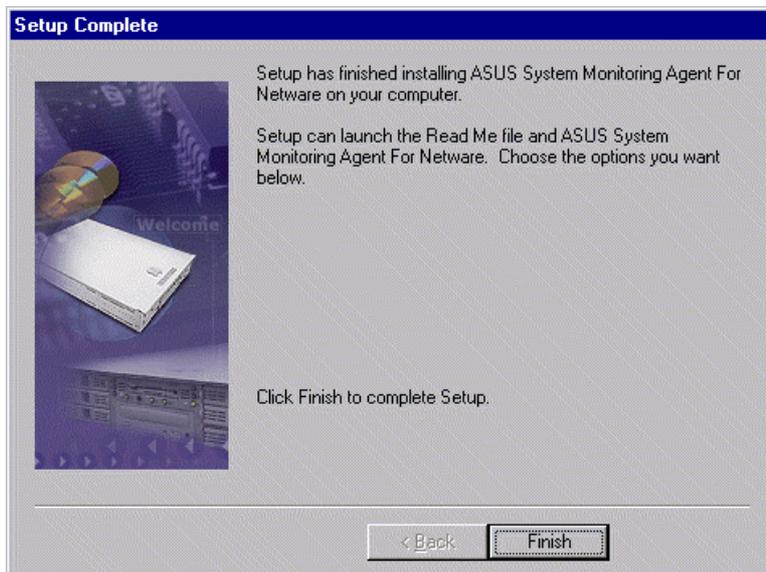
5. Using browse to choose destination driver





6. Select the Chassis Intrusion detection Method. (Reference Table 2-5)

7. Select finish to complete this installation.



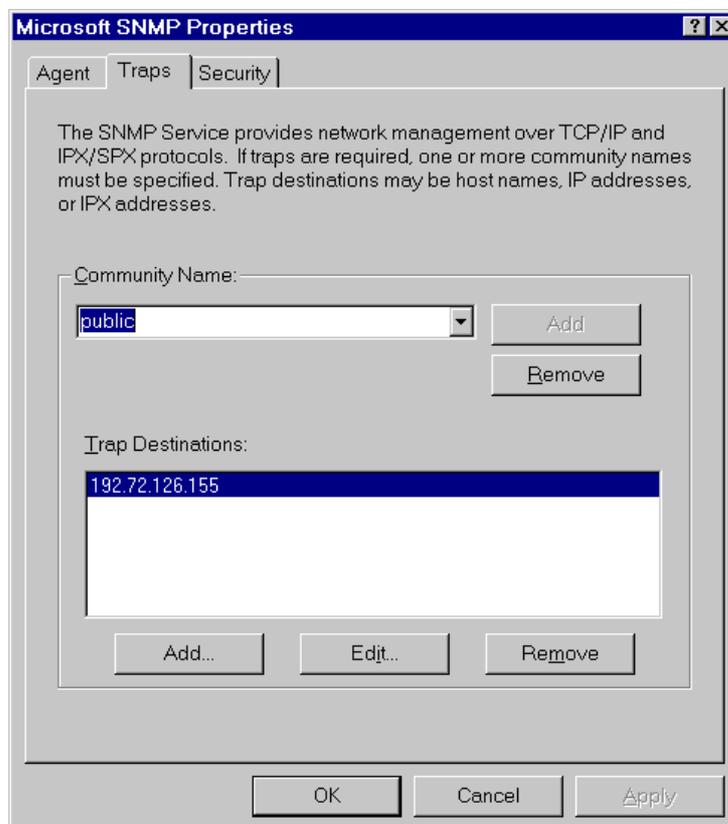
4. ASMA SOFTWARE CONFIGURATION

4.1 Configuring ASMA on Windows NT

If you monitor your PC or network by using Simple Network Management Protocol (SNMP), you can use the SNMP Management Information Bases (MIBs) provided by ASMA software program. You will need to compile the MIB files using the MIB compiler that comes with your SNMP Management software.

* Configuring SNMP Service on NT Server

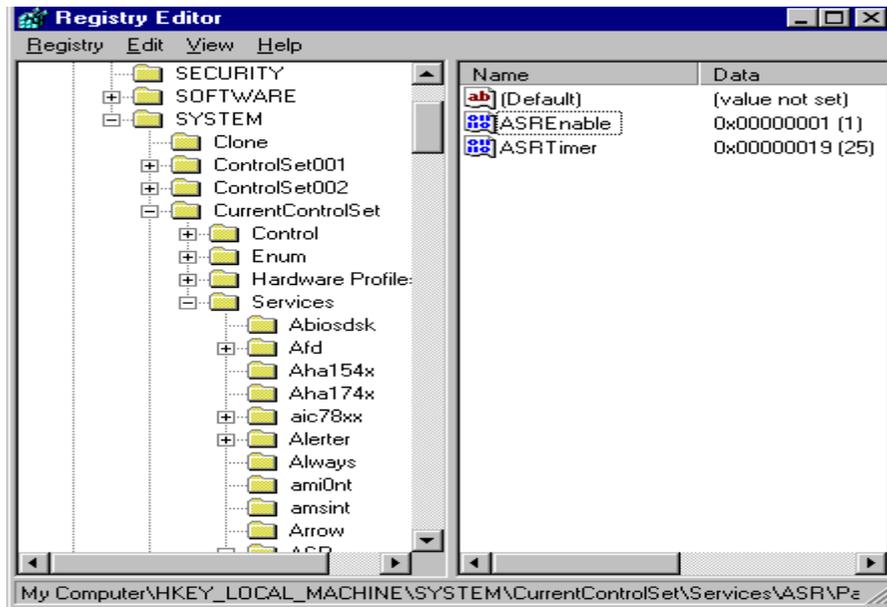
1. At the Microsoft SNMP Properties dialog, click the **Traps** tab.
2. In the **Community Name** box, type a name for the SNMP community, such as public.
3. Click the **Add** button.
4. Below the **Trap Destinations** box, click the Add button.
5. Type the **IP address** or **computer name** of your network's SNMP management station
6. Click the **Add** button.
7. Click the **OK** button.
8. Click the **Close** button.
9. When prompted , click the **Yes** button to restart your computer.



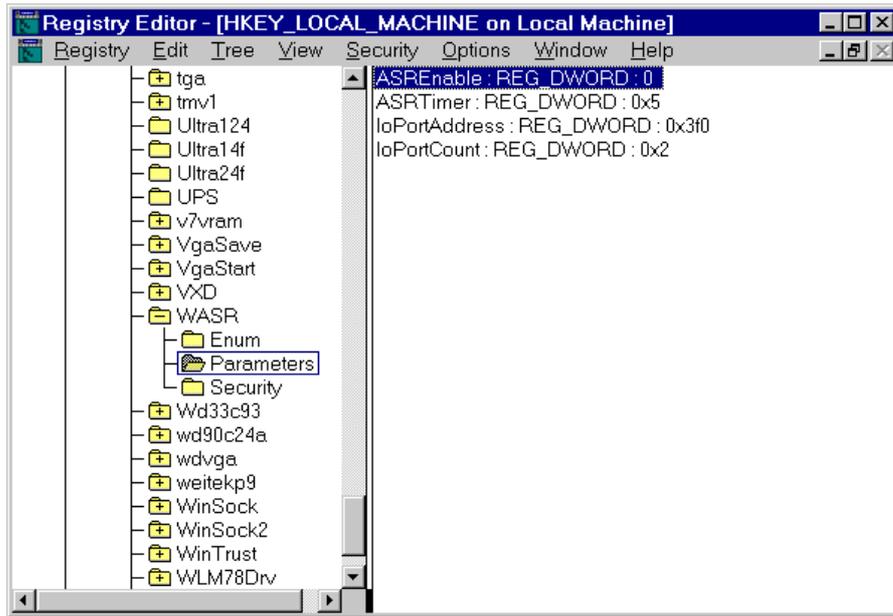
Notes: User can use the SNMP Management software to control or change those values from remote site. We strongly suggest users to use the SNMP Management Software to change the threshold value, ASR enable and Chassis Intrusion enable value. The default function of ASR and chassis intrusion are disable.

To turn ON/OFF the Automatic Server Restart:

Hkey_Local_Machine\System\CurrentControlSet\Services\ASR\Parameter\ASREnable
(for P65UP8 + ASMM card)

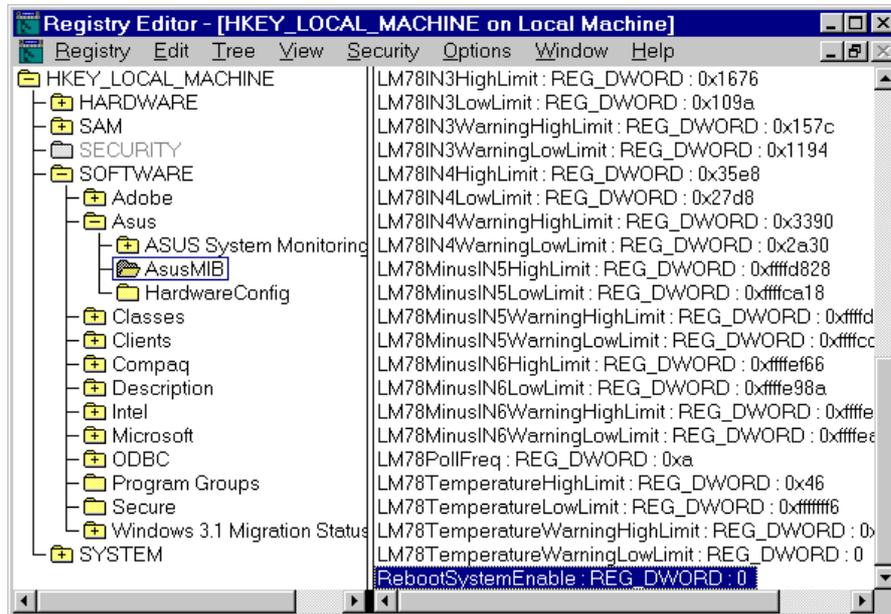


Hkey_Local_Machine\System\CurrentControlSet\Services\WASR\Parameter\ASREnable
(for P2B series, CUR serial)



To turn ON/OFF the Reboot System function:

Hkey_Local_Machine\Software\ASUS\ASUSMIB\RebootSystemEnable

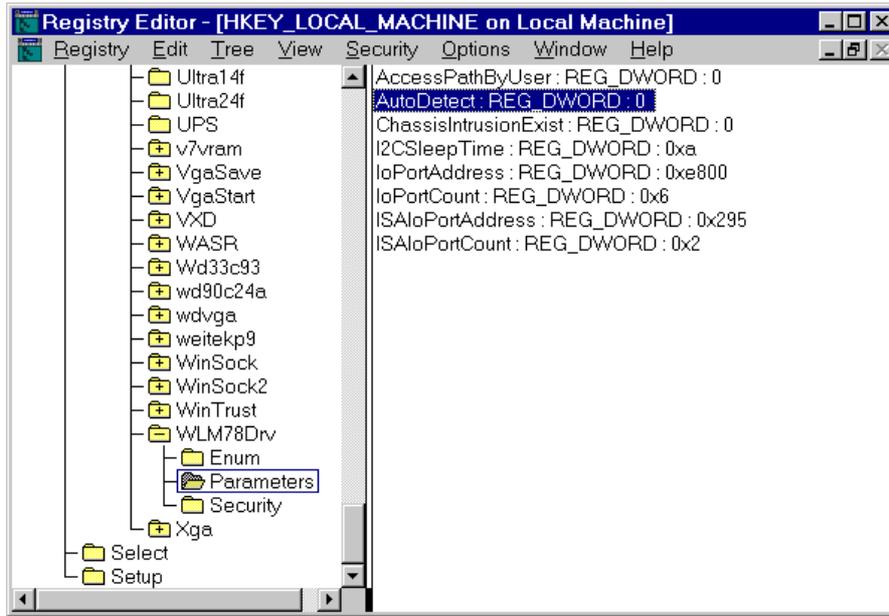


To enable the Auto hardware detect function:

Hkey_Local_Machine\System\CurrentControlSet\Services\WLM78Drv\Parameter\AutoDetect (for P2B series).

Hkey_Local_Machine\System\CurrentControlSet\Services\LM78Drv\Parameter\AutoDetect (for P65UP8 & P2L97-DS).

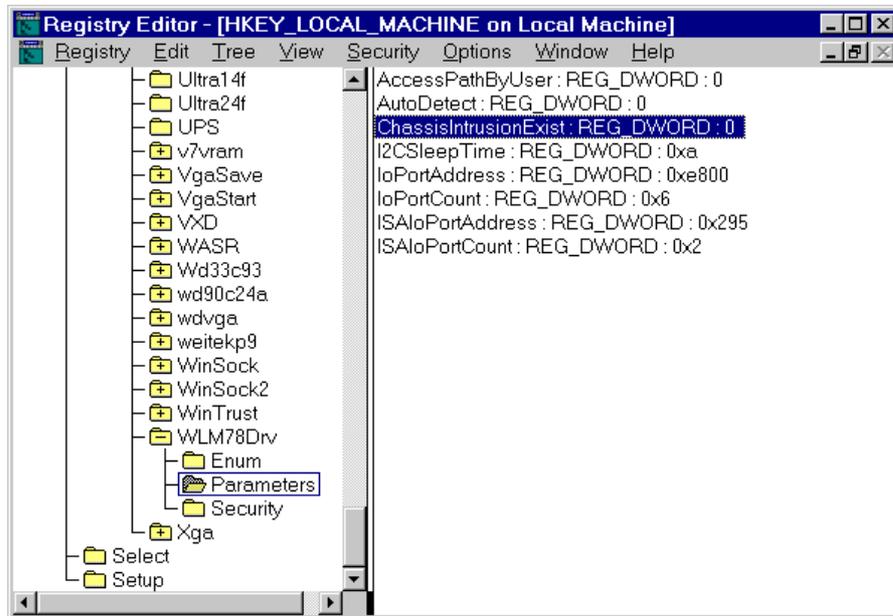
Notes: If you want to add addition hardware (like FAN) to system, you can modify the value of AutoDetect from 0 to 1 without re-install the ASMA. After you modify the value of AutoDetect, please reboot your system..



To enable the Chassis Intrusion Exist function:

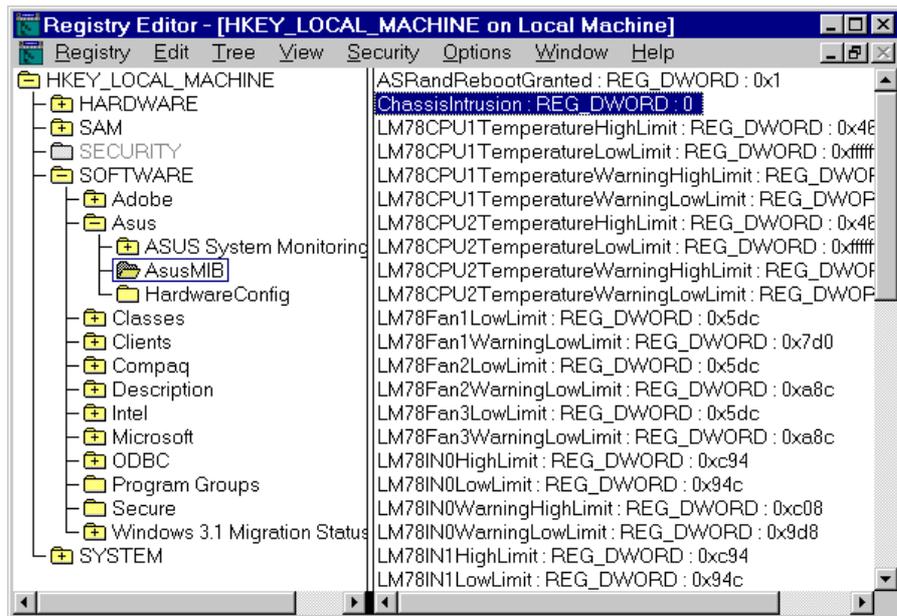
Hkey_Local_Machine\System\CurrentControlSet\Services\WLM78Drv\Parameter\ChassisIntrusionExist,

Set 0 to disable, 1 to enable Photo sensor, 2 to enable micro switch.



To turn ON/OFF the Chassis Intrusion function:

Hykey_Local_Machine\Software\ASUS\ASUSMIB\ChassisIntrusion



5. ASMA MANAGEMENT ENVIRONMENTS

In here, we introduce some ASMA management environments only. For more information or detailed description, please refer to ASUS System Management Application note.

5.1 NT Performance Monitor

NT Performance Monitor - is a graphical tool for measuring the performance of your own computer or other computers on a network. On each computer, you can view the behavior of objects, such as processors, memory, cache, threads, and processes.

The following overview lists how you use Performance Monitor to view the performance of objects: Simultaneously view data from any number of computers. View and dynamically change charts reflecting current activity and showing counter values that are updated at a user-defined frequency. Export data from charts, logs, alert logs, and reports to spreadsheet or database programs for further manipulation and printing. Add system alerts that list events in the Alert Log and notify you either by reverting to Alert view, logging the event in Event Viewer's Application log, or issuing a network alert. Run a predefined program either every time or only the first time a counter value goes over or under a user-defined value. Create log files containing data about objects on different computers. Append selected sections of existing log files to a single file, forming a long-term archive.

Performance Monitor consists of four main windows, which you display by clicking Chart, Alert, Log, or Report on the View menu. These windows contain different information and have only the menu bar, status bar, and toolbar in common. You can press the F1 key to see Help about any Performance Monitor command. On the Options menu, Data From is available in any of the four windows. Use this command to switch from working with current values for current activity (real time data) to viewing and manipulating existing log files. The default is current activity.

There are two ways that user can monitor system temperature, working voltages and fan speed from NT Performance Monitor.

Method I:

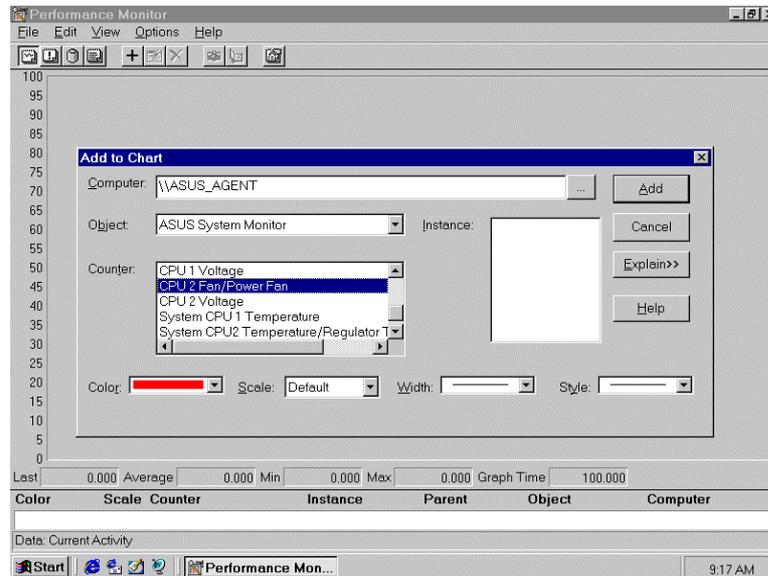
1. From the Windows NT desktop, choose **Start** select **Programs**, Select **ASUS System MonitorAgent**, Select **Monitor**.
2. From the **Monitor**, you can monitor the status of system's temperature, voltage

and fan speed.

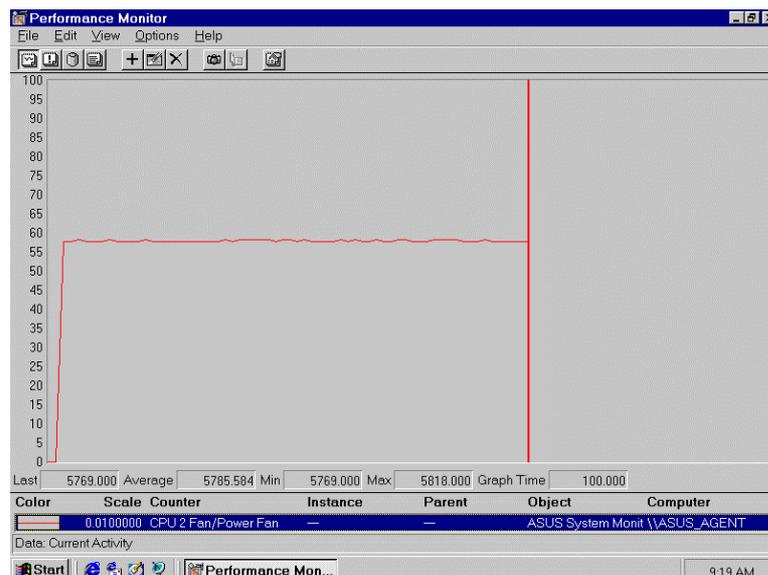
Method II:

1. From the Windows NT desktop, choose **Start | Programs | Administrative Tools | Performance Monitor**.
2. Choose **Edit** menu, Select **Add to Chart**
3. Select the computer that you want to monitor, click **OK**.
4. From the **Object Box**, select **ASUS System Monitor**. It will displays ASUS System Monitor performance list in the **Counter Box**.

- To see a description of a counter, click the **Counter** in the Computer list box, and click the **Explain** button. This displays a **Counter Definition** panel that describes the counter.
- In the **Counter** list box, click a performance counter you want to monitor, and click the **Add** button. Repeat this step for all counters you want to monitor.



- When you are finished adding counters to the chart, close the **Add to Chart** dialog box., You can now observe the color-coded graphs of the counters you have

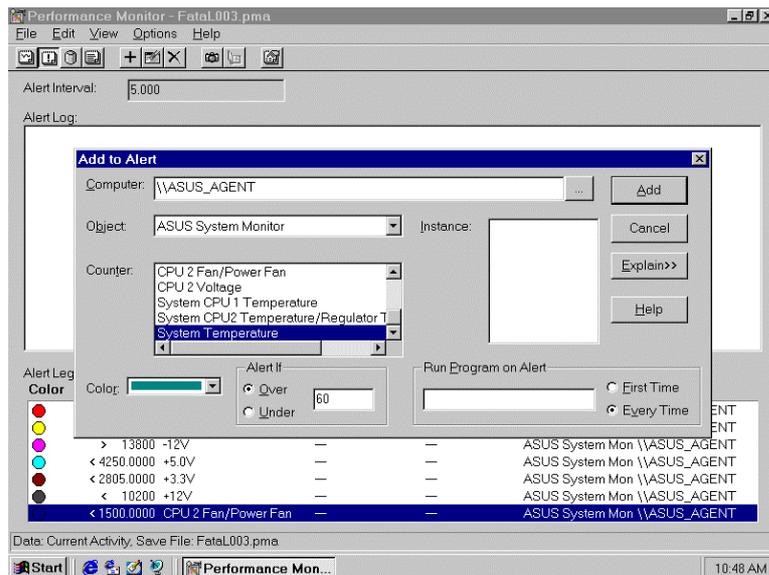


chosen as they illustrate current.

Note: Using Method II, you can monitor another computer that installed ASUS system monitor agent remotely from the network.

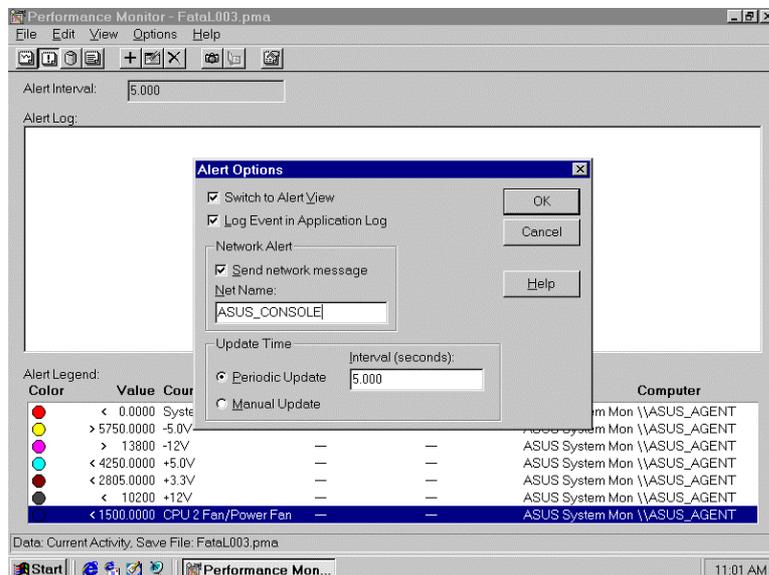
To configure the threshold of Fan/Voltage/Temperature in NT performance monitor extension

1. From **Start**, Select **Programs**, Select **ASUS System Monitoring Agent**, Select **Alert**, choose the threshold you want to monitor.
2. Choose **Edit** menu, Click **Add to Alert**
3. Select **Computer**, **object**, **counter**, Set Alert threshold value, click **Add**, click

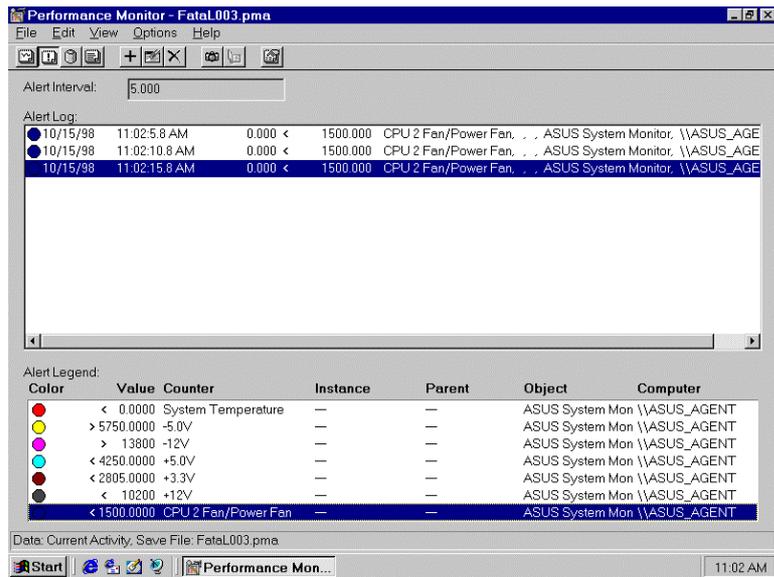


done.

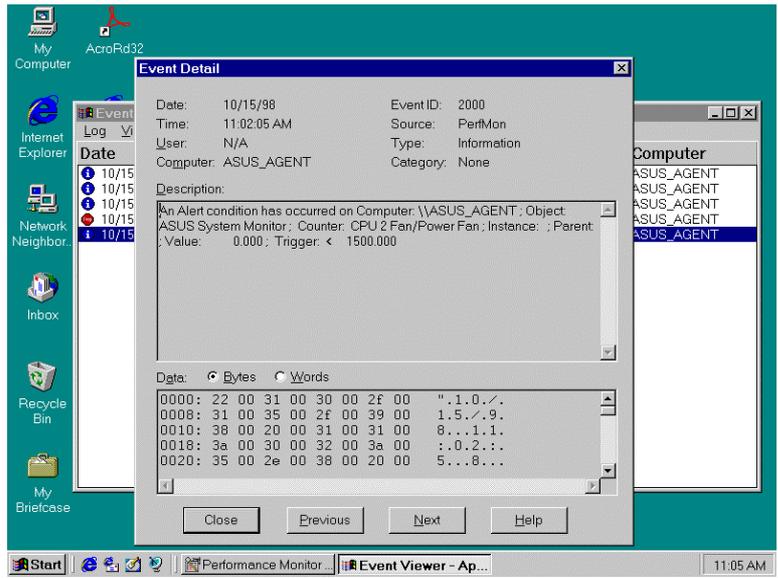
4. Choose **Options** menu, click **Alert**.
5. Select **Send network message**, Type the computer name where the alert message you want to sent.



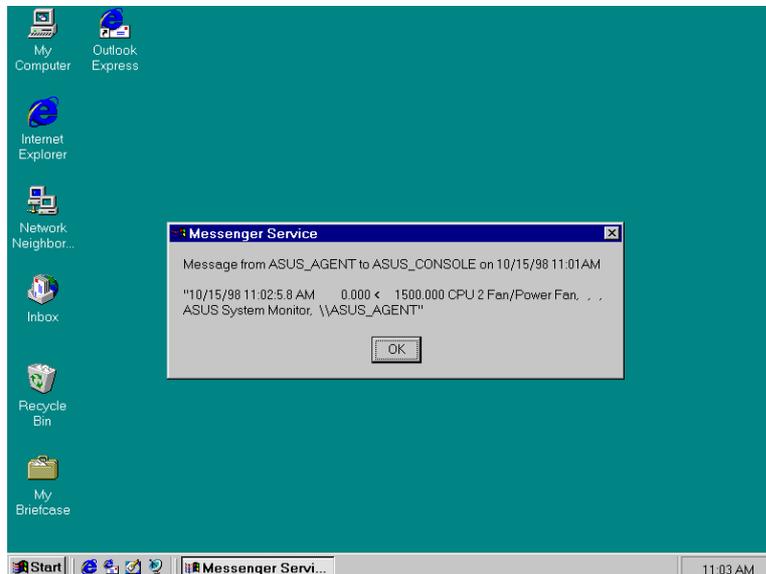
6. You can stop the CPU fan to generate a alert.



7. Using Event viewer to view this alert message.



8. This alert message will send to CONSOLE.



5.2 NT Event Viewer

Event Viewer - is the tool you can use to monitor events in your system. You can use Event Viewer to view and manage System, Security, and Application event logs.

Event: In the Windows NT operating system, an event is any significant occurrence in the system or in an application that requires users to be notified. For critical events such as a full server or an interrupted power supply, you may see a message on screen. For many other events that do not require immediate attention, the Windows NT operating system adds information to an event-log file to provide information without disturbing your usual work. This event logging service starts automatically each time you start your computer running Windows NT.

System Log: The System log records events logged by the Windows NT system components. For example, the failure of a driver or other system component to load during startup is recorded in the System log.

Security Log: The Security log records security events. This helps track changes to the security system and identify any possible breaches to security. For example, attempts to log on the system may be recorded in the Security log, depending on the Audit settings

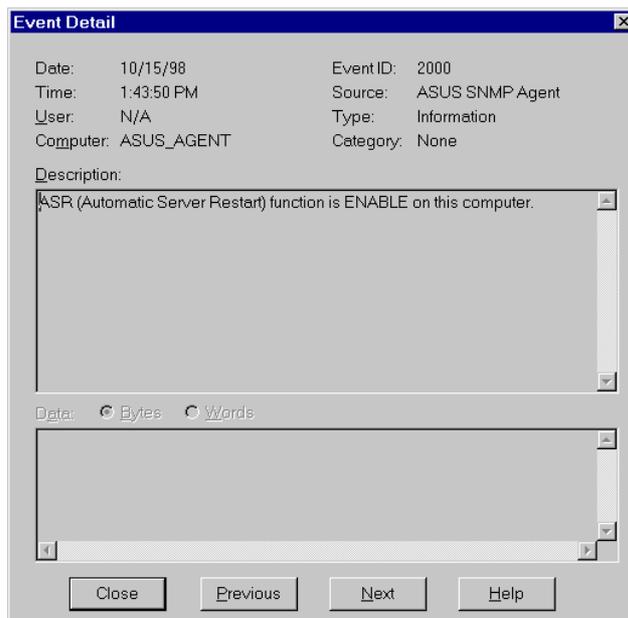
in User Manager. You can view the Security log only if you are an Administrator for a computer.

Application Log: The Application log records events logged by applications. For example, a database application might record a file error in the Application log. ASUS ASMA will generate some special events in this log.

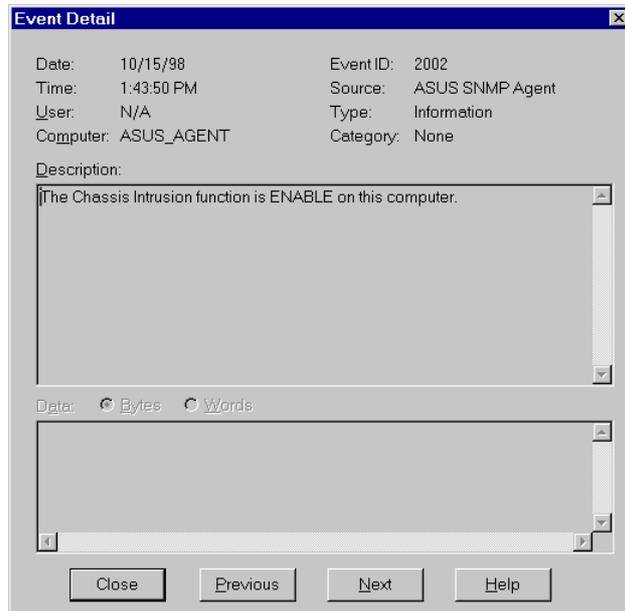
ASMA events information in Event Viewer:

Date	Time	Source	Category	Event	User	Computer
10/15/98	1:51:30 PM	ASUS SNMP Agent None		2008	N/A	ASUS_AGENT
10/15/98	1:51:20 PM	ASUS SNMP Agent None		4001	N/A	ASUS_AGENT
10/15/98	1:43:50 PM	ASUS SNMP Agent None		2005	N/A	ASUS_AGENT
10/15/98	1:43:50 PM	ASUS SNMP Agent None		2002	N/A	ASUS_AGENT
10/15/98	1:43:50 PM	ASUS SNMP Agent None		2000	N/A	ASUS_AGENT
10/15/98	1:43:50 PM	ASUS SNMP Agent None		1003	N/A	ASUS_AGENT
10/15/98	1:43:50 PM	ASUS SNMP Agent None		1004	N/A	ASUS_AGENT
10/15/98	1:43:50 PM	ASUS SNMP Agent None		1002	N/A	ASUS_AGENT

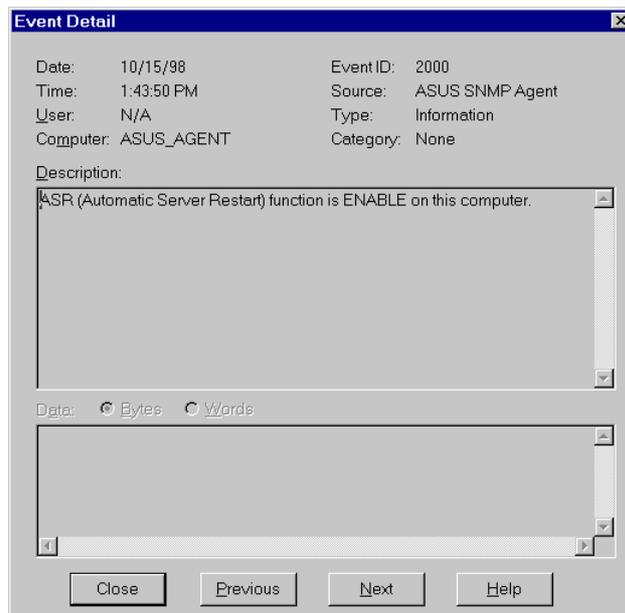
To show a Automatic Server Restart Function Enable/Disable event in Event Viewer:



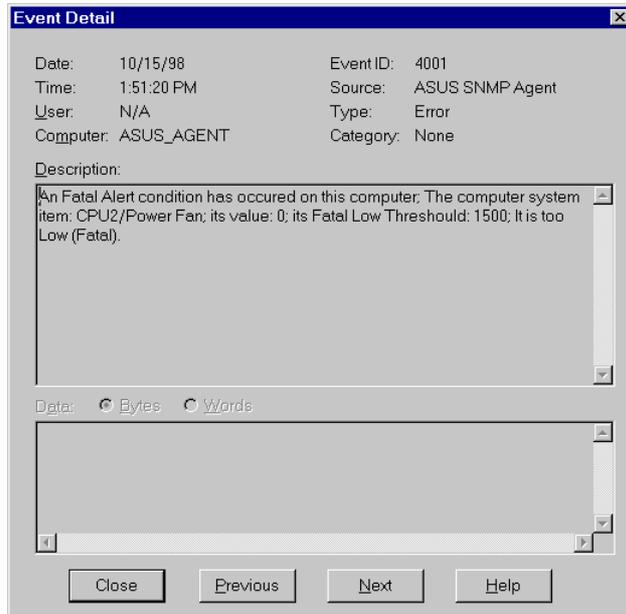
To show a Chassis Intrusion Function Enable/Disable event in Event Viewer



To show a Reboot Management function Enable/Disable event in Event Viewer:



ASMA will generate the SNMP Trap and a event of NT event log , if an alert occurs.



5.3 NT Web Administration

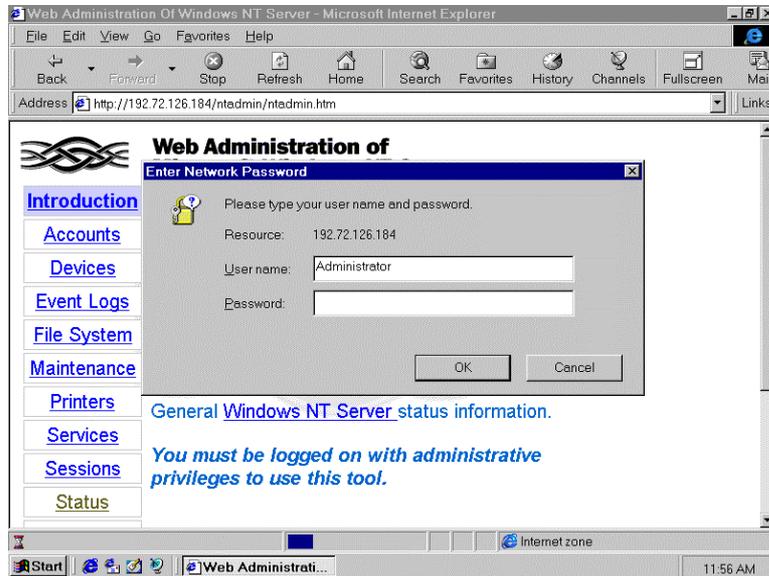
Web Administration for Microsoft Windows NT Server enables you to remotely administer Microsoft Windows NT Server using existing HTML browsers. Web Administration is not designed to replace existing administrative tools for Windows NT servers; instead, it is to enable you to perform limited administrative tasks when you are roaming, away from your usual workstation. Web administration is a tool that is implemented to work in conjunction with Microsoft Internet Information Server 2.0. User can monitor system temperature, working voltages and fan speed from Web Performance Monitor. You can install the Web Administration software on any server that run Windows NT server 4.0 and Microsoft Internet Information Server (IIS). Installing the Web Administration software on the server causes the server to publish web pages that include forms you can use to administer that particular server. The Web Administration tool is intended for existing Windows NT server administrators who have performed tasks with the regular administrative tools on Windows NT 3.51 and NT 4.0.

You may download the Web Administration program from Microsoft Web site at following URL: [http:// www.microsoft.com/ntserver/webadmin/dlnowdl.htm?](http://www.microsoft.com/ntserver/webadmin/dlnowdl.htm?)

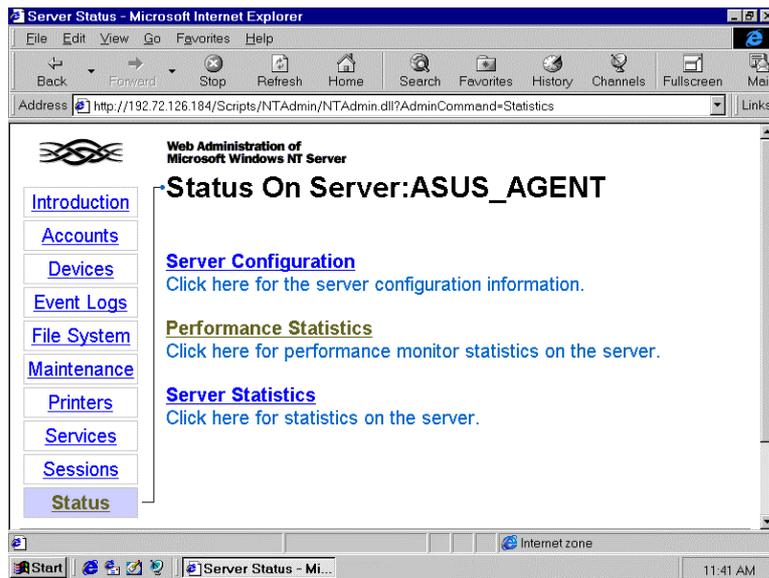
To manage the ASMM in Web Administration program:

1. Run Web Browser (IE or Netscape).
2. Type the address at your Browser such as
[http://server_name or IP address/ntadmin/ntadmin.htm](http://server_name_or_IP_address/ntadmin/ntadmin.htm).

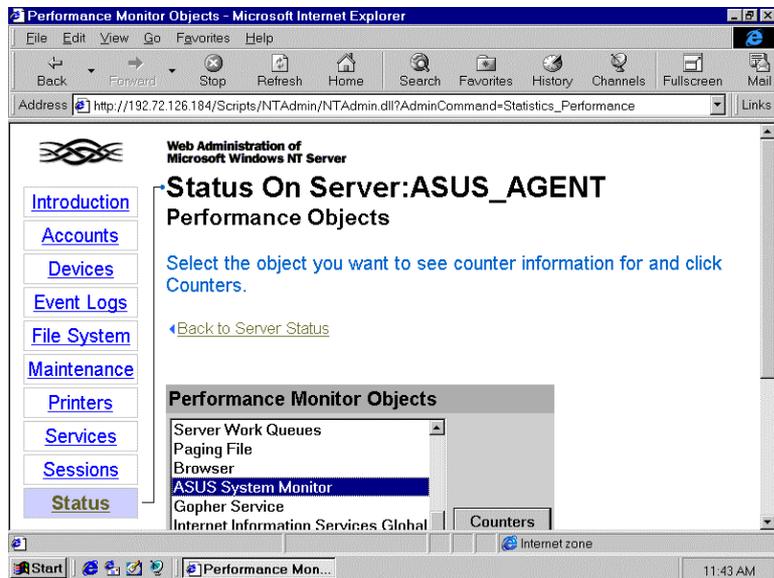
3. Click the **Status**. Type your user name, password.



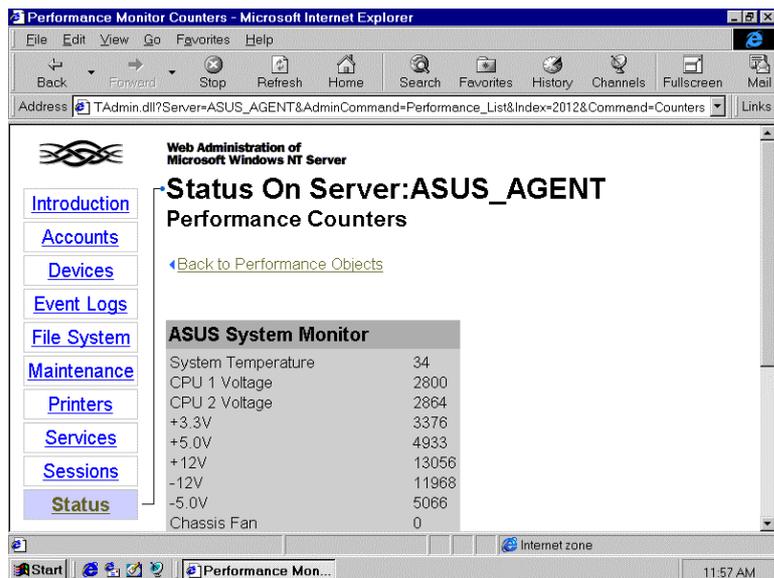
4. Click **Performance Statistics**.



5. Select **ASUS System Monitor** and Click **Counter** button



6. When prompted, you can observe the status of system's temperature, voltages fan speed, and so on.



5.4 HP Openview

The HP Openview SNMP program broadens the capabilities of SNMP-based management applications to control basic network devices and critical systems and applications. In addition to managing devices like routers, bridges, and hubs, the Extensible SNMP Agent allows you to manage applications, printers, users, and databases that are central to business success. The ability to control access to network and system resources and effortlessly monitor important network components gives you unprecedented visibility and control of your network infrastructure.

User may use HP Openview program to compile the ASUS MIB file, then user adds the compiled ASUS MIB file module to HP Openview to manage and operate the ASUS private Enterprise MIB with the computer system has installed ASUS System Monitoring Agent .

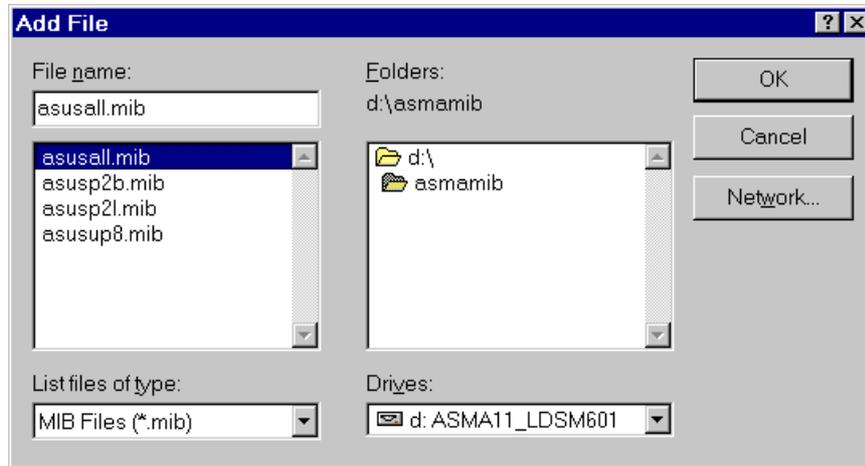
Notes: Please find the ASUS MIB file at following location:

1. From local installation directory.
(\program_files\asus\Asus System Monitoring Agent\asusmib.mib)
OR
2. From ASUS CD or disk. (\Asmamib\
(Asusall.mib file can be used when there are several different motherboards in same network)
(Asusp2b.mib for P2B-LS & P2B-DS & P2B-D2)
(Asusp2c.mib for P2L97)
(Asusup8.mib for P65UP8 + ASMM)

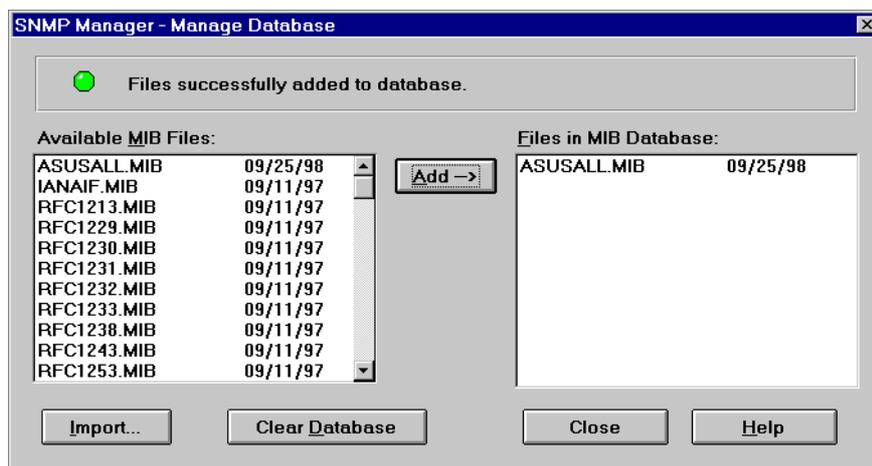
Installing ASUS MIB file to HP Openview

1. Click **Control** menu.
2. Select **SNMP Manager**.
3. Select **Manage Database**.
4. Click **Import**.

5. Select ASUS MIB file into **File Name**, Click **OK** button.

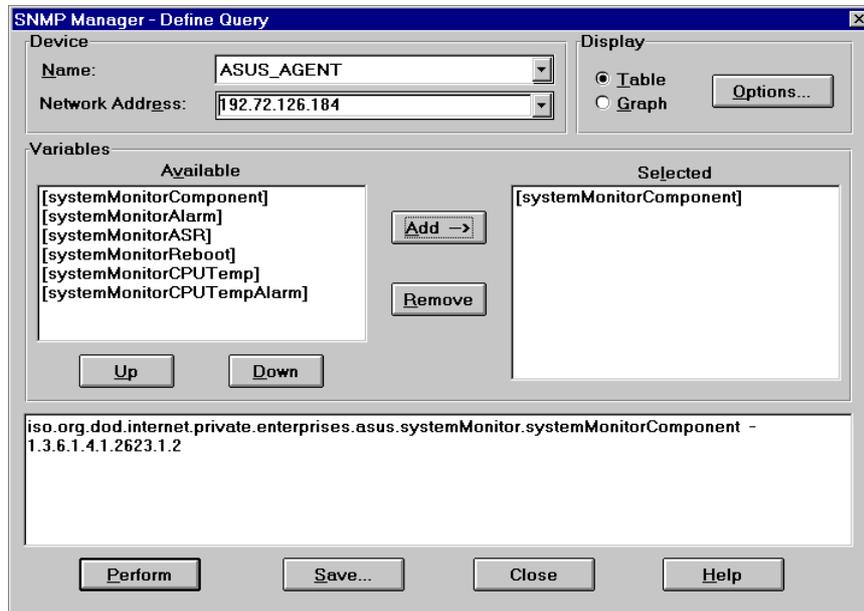


6. From Available MIB files box, select **ASUSMIB.MIB** and click **ADD** button.

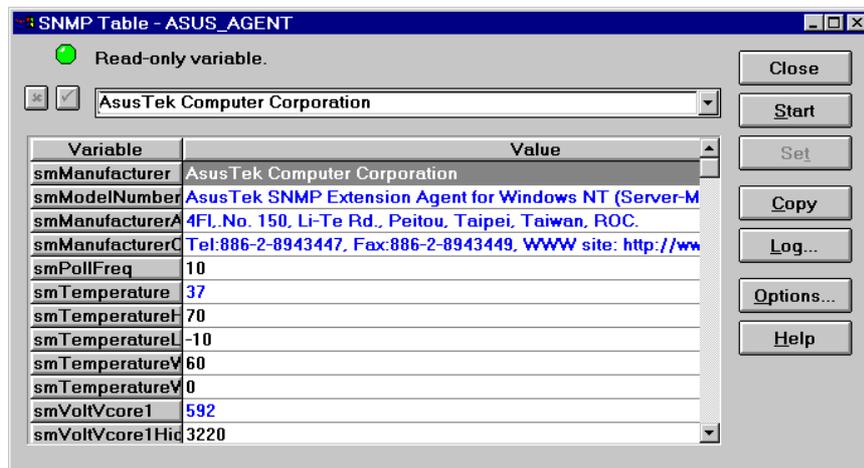


Using HP Openview to monitor ASUS Server

1. From **Control** menu, Select **SNMP Manager**, Select **Defined Query**.
2. Using **Up** and **Down** to \iso\org\dod\internet\private\enterprise\asus\systemMonitor

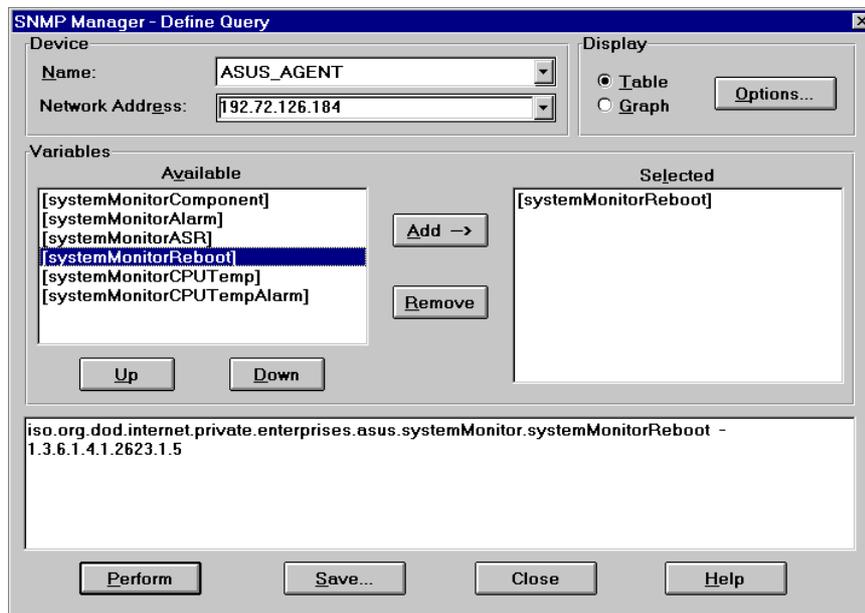


3. Select the Server name from **Name** box.
4. From **Available** box, Select **systemMointorComponent**, Click Add, Click **Perform**.
Then you can view the information about ASMA



(View / Monitor ASMA Information)

5. Select the **systemMonitorReboot**, Click **Add**, Click **Perform**.



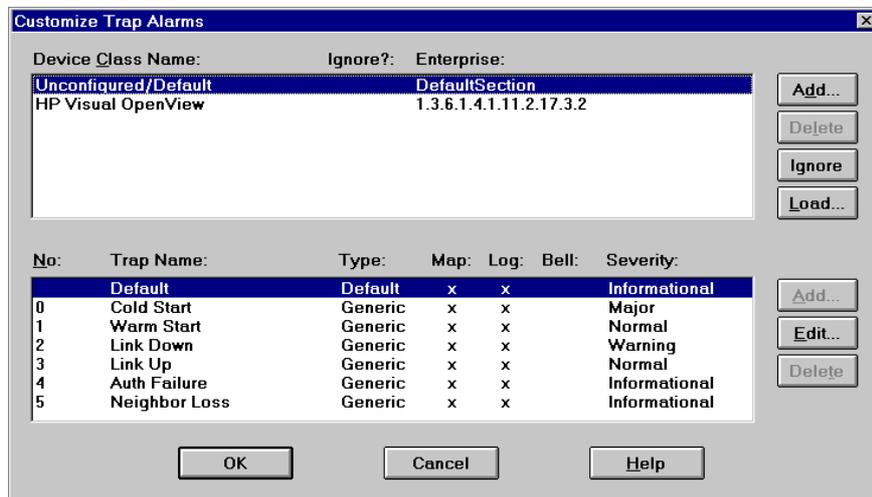
6. Modify the **rmRebootSystemEnable** variable from 0 to 1 and click **SET**.



(Configure ASMA information)

Configuring SNMP Trap for HP Openview:

1. From **Auto Discovery** menu, Select **Layout**, Select **Do Basic Layout**
2. From **Options** menu, Select **Customize Trap**
3. Select **Unconfigured/Default, Default**, Click **Add**.

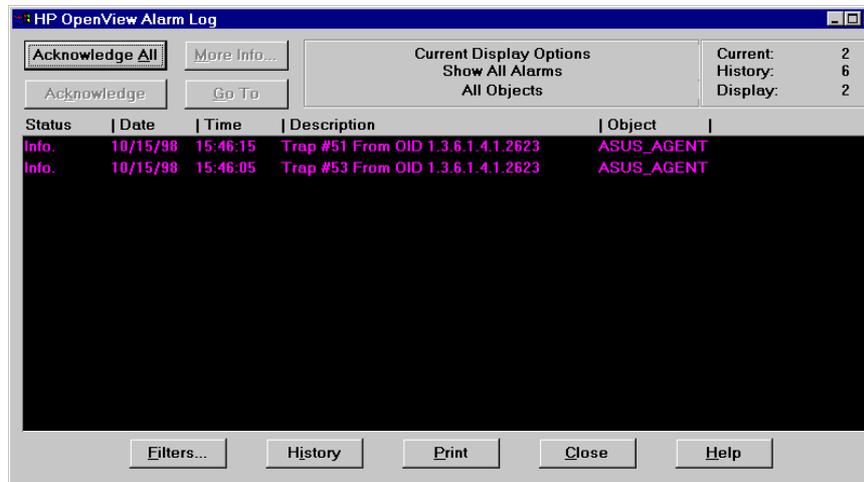


4. From **Extended Description** box, Type **\$***, Click **OK**.

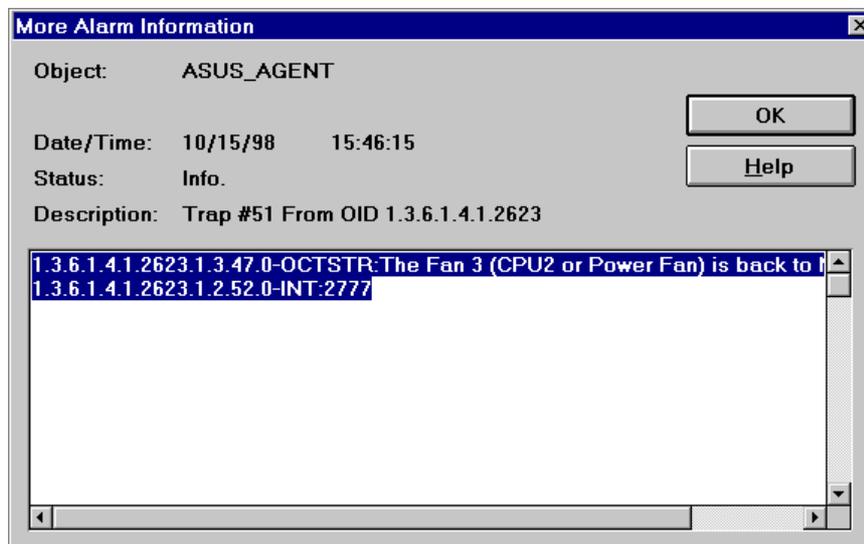


Receiving SNMP Trap

1. From **Monitor** menu, Select **Alarm Log**



2. Click **more info** to view the detail information.



Appendix A. ASMA SNMP MIB OBJECT

For different version of SNMP agents from other vendor, there are different vendor specific enterprise MIB objects. As for ASMA, it is compatible for several platforms, such as HP OpenView, Microsoft SMS, Intel LDSM, SunSoft Solstice Site/SunNet/Domain Manager, CA TNG and so on. A copy of our ASMA MIB file can be obtained from the path \ASMAMIB inside our CD , we will separately describe our MIB object as follows:

I. ASUS Private Enterprise MIB Description:

smManufacturer :

The name of the computer system manufacturer. For instance, AsusTek Computer Inc. This MIB is Read-Only.

smModelNumber :

The name of the computer system model. For instance, 1 Pentium CPU. This MIB is Read-Only.

smManufacturerAddress :

The Address of the computer system manufacturer. This MIB is Read-Only.

smManufacturerContact :

The Contact method of the computer system manufacturer. For instance, Telephone, Fax, WWW site, E-Mail Address etc. This MIB is Read-Only.

smPollFreq :

This variable informs the monitor of the system frequency. The timer unit is second. This MIB is Read-Write. User can set the value to change the monitor frequency for the computer system. The value range that user can set is from 1 to 10000. The default value is 10.

smTemperature :

This variable informs the current temperature of the system. The temperature unit is centigrade. This MIB is Read-Only.

smTemperatureHighLimit :

This variable is the threshold value for the fatal upper bound of temperature value of the system. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 70.

smTemperatureLowLimit :

This variable is the threshold value for the fatal lower bound of temperature value of the system. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is -10.

smTemperatureWarningHighLimit :

This variable is the threshold value for the warning upper bound of temperature value of the system. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 60.

smTemperatureWarningLowLimit :

This variable is the threshold value for the warning lower bound of temperature value of the system. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 0.

smVoltVcore1 :

This variable informs the current VCORE1 (CPU 1) voltage of the system. The voltage unit is milli-voltage. This MIB is Read-Only.

smVoltVcore1HighLimit :

This variable is the threshold value for the fatal upper bound of VCORE1's (CPU 1) voltage value of the system. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 1000 to 3900. The default value is 3220 (when CPU uses 2800 millivoltage). Otherwise the default value is 3795 (when CPU uses 3300 millivoltage).

smVoltVcore1LowLimit :

This variable is the threshold value for the fatal lower bound of VCORE1's (CPU 1) voltage value of the system. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 1000 to 3900. The default value is 2380 (when CPU uses 2800 millivoltage). Otherwise the default value is 2805 (when CPU uses 3300 millivoltage).

smVoltVcore1WarningHighLimit :

This variable is the threshold value for the warning upper bound of VCORE1's (CPU 1) voltage value of the system. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 1000 to 3900. The default value is 3080 (when CPU uses 2800 millivoltage). Otherwise the default value is 3630 (when CPU uses 3300 millivoltage).

smVoltVcore1WarningLowLimit :

This variable is the threshold value for the warning lower bound of VCORE1's (CPU 1) voltage value of the system. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 1000 to 3900. The default value is 2520 (when CPU uses 2800 millivoltage). Otherwise the default value is 2970 (when CPU uses 3300 millivoltage).

smVoltVcore2 :

This variable informs the current VCORE2 (CPU 2 if have otherwise the same as VCORE1) voltage of the system. The voltage unit is milli-voltage. This MIB is Read-Only.

smVoltVcore2HighLimit :

This variable is the threshold value for the fatal upper bound of VCORE2's (CPU 2 if have) voltage value of the system. The voltage unit is milli-voltage. The value range that user can set is from 1000 to 3900. The default value is 3220 (when CPU uses 2800 millivoltage). Otherwise the default value is 3795 (when CPU uses 3300 millivoltage).

smVoltVcore2LowLimit :

This variable is the threshold value for the fatal lower bound of VCORE2's (CPU 2 if have) voltage value of the system. The voltage unit is milli-voltage. The value range that user can set is from 1000 to 3900. The default value is 2380 (when CPU uses 2800 millivoltage). Otherwise the default value is 2805 (when CPU uses 3300 millivoltage).

smVoltVcore2WarningHighLimit :

This variable is the threshold value for the warning upper bound of VCORE2's (CPU 2 if have) voltage value of the system. The voltage unit is milli-voltage. The value range that user can set is from 1000 to 3900. The default value is 3080 (when CPU uses 2800 millivoltage). Otherwise the default value is 3630 (when CPU uses 3300 millivoltage).

smVoltVcore2WarningLowLimit :

This variable is the threshold value for the warning lower voltage of VCORE2's (CPU 2 if have) voltage value of the system. The voltage unit is milli-voltage. The value range that user can set is from 1000 to 3900. The default value is 2520 (when CPU uses 2800 millivoltage). Otherwise the default value is 2970 (when CPU uses 3300 millivoltage).

sm3V :

This variable informs the current +3.3 voltage of the system. The voltage unit is milli-voltage. This MIB is Read-Only.

sm3VHighLimit :

This variable is the threshold value for the fatal upper bound of +3.3 voltage value of the system. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2700 to 4100. The default value is 3995.

sm3VLowLimit :

This variable is the threshold value for the fatal lower bound of +3.3 voltage value of the system. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2700 to 4100. The default value is 2805.

sm3VWarningHighLimit :

This variable is the threshold value for the warning upper bound of +3.3 voltage value of the system. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2700 to 4100. The default value is 3830.

sm3VWarningLowLimit :

This variable is the threshold value for the warning lower bound of +3.3 voltage value of the system. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2700 to 4100. The default value is 2970.

sm5V :

This variable informs the current +5.0 voltage of the system. The voltage unit is milli-voltage. This MIB is Read-Only.

sm5VHighLimit :

This variable is the threshold value for the fatal upper bound of +5.0 voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 5750.

sm5VLowLimit :

This variable is the threshold value for the fatal lower bound of +5.0 voltage value of the system. The voltage unit is milli-voltage. The voltage unit is

milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 4250.

sm5VWarningHighLimit :

This variable is the threshold value for the warning upper bound of +5.0 voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 5500.

sm5VWarningLowLimit :

This variable is the threshold value for the warning lower bound of +5.0 voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 4500.

sm12V :

This variable informs the current +12.0 voltage of the system. The voltage unit is milli-voltage. This MIB is Read-Only.

sm12VHighLimit :

This variable is the threshold value for the fatal upper bound of +12.0 voltage value of the system. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 13800.

sm12VLowLimit :

This variable is the threshold value for the fatal lower bound of +12.0 voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 10200.

sm12VWarningHighLimit :

This variable is the threshold value for the warning upper bound of +12.0 voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 13200.

sm12VWarningLowLimit :

This variable is the threshold value for the warning lower bound of +12.0 voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 10800.

sm-12V :

This variable informs the current -12.0 voltage of the system. The voltage unit is milli-voltage. This MIB is Read-Only.

sm-12VHighLimit :

This variable is the threshold value for the fatal upper bound of -12.0 voltage value of the system. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from -14000 to -10000. The default value is -10200.

sm-12VLowLimit :

This variable is the threshold value for the fatal lower bound of -12.0 voltage value of the system. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from -14000 to -10000. The default value is -13800.

sm-12VWarningHighLimit :

This variable is the threshold value for the warning upper bound of -12.0 voltage value of the system. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from -14000 to -10000. The default value is -10800.

sm-12VWarningLowLimit :

This variable is the threshold value for the warning lower bound of -12.0 voltage value of the system. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from -14000 to -10000. The default value is -13200.

sm-5V :

This variable informs the current -5.0 voltage of the system. The voltage unit is milli-voltage. This MIB is Read-Only.

sm-5VHighLimit :

This variable is the threshold value for the fatal upper bound of -5.0 voltage value of the system. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from -5800 to -4200. The default value is -4250.

sm-5VLowLimit :

This variable is the threshold value for the fatal lower bound of -5.0 voltage value of the system. The voltage unit is milli-voltage. This MIB is

Read-Write. The value range that user can set is from -5800 to -4200. The default value is -5750.

sm-5VWarningHighLimit :

This variable is the threshold value for the warning upper bound of -5.0 voltage value of the system. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from -5800 to -4200. The default value is -4500.

sm-5VWarningLowLimit :

This variable is the threshold value for the warning lower bound of -5.0 voltage value of the system. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from -5800 to -4200. The default value is -5500.

smFan1 :

This variable informs the current Fan 1 (Chassis Fan) of the system. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Only.

smFan1LowLimit :

This variable is the threshold value for the fatal lower bound of Fan 1 (Chassis Fan) value of the system. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Write. The value range that user can set is from 1500 to 2000. The default value is 1500.

smFan1WarningLowLimit :

This variable is the threshold value for the warning lower bound of Fan 1 (Chassis Fan) value of the system. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Write. The value range that user can set is from 1500 to 2000. The default value is 2000.

smFan2 :

This variable informs the current Fan 2 (CPU1 Fan) of the system. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Only.

smFan2LowLimit :

This variable is the threshold value for the fatal lower bound of Fan 2 (CPU1 Fan) value of the system. The fan rotation unit is RPM (Rotate Per Minute). The value range that user can set is from 1500 to 2700. The default value is 1500.

smFan2WarningLowLimit :

This variable is the threshold value for the warning lower bound of Fan 2

(CPU1 Fan) value of the system. The fan rotation unit is RPM (Rotate Per Minute). The value range that user can set is from 1500 to 2700. The default value is 2700.

smFan3 :

This variable informs the current Fan 3 (CPU2 or Power Fan) of the system. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Only.

smFan3LowLimit :

This variable is the threshold value for the fatal lower bound of Fan 3 (CPU2 or Power Fan) value of the system. The fan rotation unit is RPM (Rotate Per Minute). The value range that user can set is from 1500 to 2700. The default value is 1500.

smFan3WarningLowLimit :

This variable is the threshold value for the warning lower bound of Fan 3 (CPU2 or Power Fan) value of the system. The fan rotation unit is RPM (Rotate Per Minute). The value range that user can set is from 1500 to 2700. The default value is 2700.

smAutomaticServerRestart :

This variable is for Automatic Server Restart enable(1)/disable(0) when computer system hang. The value range that user can set is either 1 (enable) or 0 (disable). The default value is 0, ie. the ASR (Automatic Server Restart) is disable.

smChassisIntrusionEnable :

This variable is for the computer system Chassis Intrusion enable(1)/disable(0). The value range that user can set is either 1 (enable) or 0 (disable). The default value is 0, ie. the Chassis Intrusion is disable.

smChassisIntrusionStatus :

This variable is for detect the computer system Chassis Intrusion flag status Intrusion(1)/No Intrusion(0).

smRebootSystemEnable :

This variable enable(1)/disable(0) the current system remote reboot function. The Default value is 0.

smRebootSystemNow :

This variable reboot the system. The set value is 1.

smCPU1Temperature :

This variable informs the current CPU1 temperature of the system. The temperature unit is centigrade. This MIB is Read-Only.

smCPU1TemperatureHighLimit :

This variable is the threshold value for the fatal upper bound of CPU1 temperature value of the system. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 70.

smCPU1TemperatureLowLimit :

This variable is the threshold value for the fatal lower bound of CPU1 temperature value of the system. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is -10.

smCPU1TemperatureWarningHighLimit :

This variable is the threshold value for the warning upper bound of CPU1 temperature value of the system. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 60.

smCPU1TemperatureWarningLowLimit :

This variable is the threshold value for the warning lower bound of CPU1 temperature value of the system. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 0.

smCPU2Temperature :

This variable informs the current CPU2 (or Regulator) temperature of the system. The temperature unit is centigrade. This MIB is Read-Only.

smCPU2TemperatureHighLimit :

This variable is the threshold value for the fatal upper bound of CPU2 (or Regulator) temperature value of the system. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 70.

smCPU2TemperatureLowLimit :

This variable is the threshold value for the fatal lower bound of CPU2 (or Regulator) temperature value of the system. The temperature unit is centigrade.

This MIB is Read-Write. The value range that user can set is from -55 to 125.
The default value is -10.

smCPU2TemperatureWarningHighLimit :

This variable is the threshold value for the warning upper bound of CPU2 (or Regulator) temperature value of the system. The temperature unit is centigrade.
This MIB is Read-Write. The value range that user can set is from -55 to 125.
The default value is 60.

smCPU2TemperatureWarningLowLimit :

This variable is the threshold value for the warning lower bound of CPU2 (or Regulator) temperature value of the system. The temperature unit is centigrade.
This MIB is Read-Write. The value range that user can set is from -55 to 125.
The default value is 0.

smBackPlane1Exist :

This variable is displays BackPlane1 installed on the system. This MIB is Read-Only.

smBackPlane1IDSEL1 :

This variable is value of IDSEL1 to BackPlane1. This MIB is Read-Only.

smBackPlane1IDSEL0 :

This variable is value of IDSEL0 to BackPlane1. This MIB is Read-Only.

smBackPlane1RMTStart :

This variable is value of RMTStart to BackPlane1. It is meaning on DA-BP5 BackPlane only. This MIB is Read-Only.

smBackPlane1DLYStart :

This variable is value of DLYStart to BackPlane1. It is meaning on DA-BP5 BackPlane only. This MIB is Read-Only.

smBackPlane1Model :

This variable is BackPlane1 Model Name. This MIB is Read-Only.

smBackPlane1Temperature :

This variable informs the current temperature of the BackPlane1. The temperature unit is centigrade. This MIB is Read-Only.

smBackPlane1TemperatureHighLimit :

This variable is the threshold value for the fatal upper bound of temperature value of the BackPlane1. The temperature unit is centigrade. This MIB is

Read-Write. The value range that user can set is from -55 to 125. The default value is 60.

smBackPlane1TemperatureLowLimit :

This variable is the threshold value for the fatal lower bound of temperature value of the BackPlane1. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is -10.

smBackPlane1TemperatureWarningHighLimit :

This variable is the threshold value for the warning upper bound of temperature value of the BackPlane1. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 50.

smBackPlane1TemperatureWarningLowLimit :

This variable is the threshold value for the warning lower bound of temperature value of the BackPlane1. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 0.

smBackPlane1_5V :

This variable informs the current +5.0 voltage of the BackPlane1. The voltage unit is milli-voltage. This MIB is Read-Only.

smBackPlane1_5VHighLimit :

This variable is the threshold value for the fatal upper bound of +5.0 voltage value of the BackPlane1. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 5750.

smBackPlane1_5VLowLimit :

This variable is the threshold value for the fatal lower bound of +5.0 voltage value of the BackPlane1. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 4250.

smBackPlane1_5VWarningHighLimit :

This variable is the threshold value for the warning upper bound of +5.0 voltage value of the BackPlane1. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 5500.

smBackPlane1_5VWarningLowLimit :

This variable is the threshold value for the warning lower bound of +5.0 voltage value of the BackPlane1. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 4500.

smBackPlane1_12V :

This variable informs the current +12.0 voltage of the BackPlane1. The voltage unit is milli-voltage. This MIB is Read-Only.

smBackPlane1_12VHighLimit :

This variable is the threshold value for the fatal upper bound of +12.0 voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 13800.

smBackPlane1_12VLowLimit :

This variable is the threshold value for the fatal lower bound of +12.0 voltage value of the BackPlane1. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 10200.

smBackPlane1_12VWarningHighLimit :

This variable is the threshold value for the warning upper bound of +12.0 voltage value of the BackPlane1. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 13200.

smBackPlane1_12VWarningLowLimit :

This variable is the threshold value for the warning lower bound of +12.0 voltage value of the BackPlane1. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 10800.

smBackPlane1CoolingFan1Speed :

This variable informs the current Fan 1 (Chassis Fan) of the BackPlane1. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Only.

smBackPlane1CoolingFan1SpeedLowLimit :

This variable is the threshold value for the fatal lower bound of Cooling Fan 1 value of the BackPlane1. The fan rotation unit is RPM (Rotate Per Minute).

This MIB is Read-Write. The value range that user can set is from 1500 to 3200. The default value is 1500.

smBackPlane1CoolingFan1SpeedWarningLowLimit :

This variable is the threshold value for the warning lower bound of Cooling Fan 1 value of the BackPlane1. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Write. The value range that user can set is from 1500 to 3200. The default value is 2000.

smBackPlane1CoolingFan2Speed :

This variable informs the current Cooling Fan 2 of the BackPlane1. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Only.

smBackPlane1CoolingFan2SpeedLowLimit :

This variable is the threshold value for the fatal lower bound of Cooling Fan 2 value of the BackPlane1. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Write. The value range that user can set is from 1500 to 3200. The default value is 1500.

smBackPlane1CoolingFan2SpeedWarningLowLimit :

This variable is the threshold value for the warning lower bound of Fan 2 value of the BackPlane1. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Write. The value range that user can set is from 1500 to 3200. The default value is 2000.

smBackPlane1LEDFanModuleExist :

This variable is displays the LED/Fan Moduled of BackPlane1 installed. (0=>not available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane1CoolingFan1Status :

This variable is displays the status of Cooling Fan1 of BackPlane1. (0=>not available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane1CoolingFan2Status :

This variable is displays the status of Cooling Fan2 of BackPlane1. (0=>not available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane1DriveBay1Plugin :

This variable is displays the Plugin status of DriveBay1 of BackPlane1. (0=>not

available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane1DriveBay1SCSIid :

This variable is displays the SCSI ID of DriveBay1 of BackPlane1. This MIB is Read-Only

smBackPlane1DriveBay1PowerStatus :

This variable is displays the Power status of DriveBay1 of BackPlane1. (0=>not available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane1DriveBay2Plugin :

This variable is displays the Plugin status of DriveBay2 of BackPlane1. (0=>not available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane1DriveBay2SCSIid :

This variable is displays the SCSI ID of DriveBay2 of BackPlane1. This MIB is Read-Only

smBackPlane1DriveBay2PowerStatus :

This variable is displays the Power status of DriveBay2 of BackPlane1. (0=>not available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane1DriveBay3Plugin :

This variable is displays the Plugin status of DriveBay3 of BackPlane1. (0=>not available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane1DriveBay3SCSIid :

This variable is displays the SCSI ID of DriveBay3 of BackPlane1. This MIB is Read-Only

smBackPlane1DriveBay3PowerStatus :

This variable is displays the Power status of DriveBay3 of BackPlane1. (0=>not available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane1DriveBay4Plugin :

This variable is displays the Plugin status of DriveBay4 of BackPlane1. (0=>not

available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane1DriveBay4SCSIid :

This variable is displays the SCSI ID of DriveBay4 of BackPlane1. This MIB is Read-Only

smBackPlane1DriveBay4PowerStatus :

This variable is displays the Power status of DriveBay4 of BackPlane1. (0=>not available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane1DriveBay5Plugin :

This variable is displays the Plugin status of DriveBay5 of BackPlane1. (0=>not available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane1DriveBay5SCSIid :

This variable is displays the SCSI ID of DriveBay5 of BackPlane1. This MIB is Read-Only

smBackPlane1DriveBay5PowerStatus :

This variable is displays the Power status of DriveBay5 of BackPlane1. (0=>not available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane1AutoAdjustCoolingFanSpeedEnable :

This variable is enable(1)/disable(0) Automatic adjust Cooling Fan Speed. It is meaning for DA-BP5 only. This MIB is Read-Write

smBackPlane1AutoAdjustCoolingFanTimeInterval :

This variable is the time interval for Cooling Fan change speed grade. It is meaning for DA-BP5 only. This MIB is Read-Write

smBackPlane1CoolingFanSpeedGrade :

This variable is the Cooling Fan Speed Grade. This MIB is Read-Write

smBackPlane1CoolingFanDisable :

This variable is the Disable(1)/Enable(0) Cooling Fan. This MIB is Read-Write

smBackPlane1Remap :

This variable is Remap BackPlane1 Configuration. When the BackPlane1 need to update configuration This MIB is Read-Write

smBackPlane1DrivePowerOff :

This variable is the Power off DriveBay of the BackPlane1. It is meaning for DA-BP5 only. This MIB is Read-Write

smBackPlane2Exist :

This variable is displays BackPlane2 installed on the system. This MIB is Read-Only.

smBackPlane2IDSEL1 :

This variable is value of IDSEL1 to BackPlane2. This MIB is Read-Only.

smBackPlane2IDSEL0 :

This variable is value of IDSEL0 to BackPlane2. This MIB is Read-Only.

smBackPlane2RMTStart :

This variable is value of RMTStart to BackPlane2. It is meaning on DA-BP5 BackPlane only. This MIB is Read-Only.

smBackPlane2DLYStart :

This variable is value of DLYStart to BackPlane2. It is meaning on DA-BP5 BackPlane only. This MIB is Read-Only.

smBackPlane2Model :

This variable is BackPlane2 Model Name. This MIB is Read-Only.

smBackPlane2Temperature :

This variable informs the current temperature of the BackPlane2. The temperature unit is centigrade. This MIB is Read-Only.

smBackPlane2TemperatureHighLimit :

This variable is the threshold value for the fatal upper bound of temperature value of the BackPlane2. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 60.

smBackPlane2TemperatureLowLimit :

This variable is the threshold value for the fatal lower bound of temperature value of the BackPlane2. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is -10.

smBackPlane2TemperatureWarningHighLimit :

This variable is the threshold value for the warning upper bound of temperature

value of the BackPlane2. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 50.

smBackPlane2TemperatureWarningLowLimit :

This variable is the threshold value for the warning lower bound of temperature value of the BackPlane2. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 0.

smBackPlane2_5V :

This variable informs the current +5.0 voltage of the BackPlane2. The voltage unit is milli-voltage. This MIB is Read-Only.

smBackPlane2_5VHighLimit :

This variable is the threshold value for the fatal upper bound of +5.0 voltage value of the BackPlane2. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 5750.

smBackPlane2_5VLowLimit :

This variable is the threshold value for the fatal lower bound of +5.0 voltage value of the BackPlane2. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 4250.

smBackPlane2_5VWarningHighLimit :

This variable is the threshold value for the warning upper bound of +5.0 voltage value of the BackPlane2. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 5500.

smBackPlane2_5VWarningLowLimit :

This variable is the threshold value for the warning lower bound of +5.0 voltage value of the BackPlane2. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 4500.

smBackPlane2_12V :

This variable informs the current +12.0 voltage of the BackPlane2. The voltage unit is milli-voltage. This MIB is Read-Only.

smBackPlane2_12VHighLimit :

This variable is the threshold value for the fatal upper bound of +12.0 voltage value of the BackPlane2. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 13800.

smBackPlane2_12VLowLimit :

This variable is the threshold value for the fatal lower bound of +12.0 voltage value of the BackPlane2. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 10200.

smBackPlane2_12VWarningHighLimit :

This variable is the threshold value for the warning upper bound of +12.0 voltage value of the BackPlane2. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 13200.

smBackPlane2_12VWarningLowLimit :

This variable is the threshold value for the warning lower bound of +12.0 voltage value of the BackPlane2. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 10800.

smBackPlane2CoolingFan1Speed :

This variable informs the current Fan 1 of the BackPlane2. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Only.

smBackPlane2CoolingFan1SpeedLowLimit :

This variable is the threshold value for the fatal lower bound of Cooling Fan 1 value of the BackPlane2. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Write. The value range that user can set is from 1500 to 3200. The default value is 1500.

smBackPlane2CoolingFan1SpeedWarningLowLimit :

This variable is the threshold value for the warning lower bound of Cooling Fan 1 value of the BackPlane2. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Write. The value range that user can set is from 1500 to 3200. The default value is 2000.

smBackPlane2CoolingFan2Speed :

This variable informs the current Cooling Fan 2 of the BackPlane2. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Only.

smBackPlane2CoolingFan2SpeedLowLimit :

This variable is the threshold value for the fatal lower bound of Cooling Fan 2 value of the BackPlane2. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Write. The value range that user can set is from 1500 to 3200. The default value is 1500.

smBackPlane2CoolingFan2SpeedWarningLowLimit :

This variable is the threshold value for the warning lower bound of Fan 2 value of the BackPlane2. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Write. The value range that user can set is from 1500 to 3200. The default value is 2000.

smBackPlane2LEDFanModuleExist :

This variable is displays the LED/Fan Moduled of BackPlane2 installed. (0=>not avaiable; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane2CoolingFan1Status :

This variable is displays the status of Cooling Fan1 of BackPlane2. (0=>not avaiable; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane2CoolingFan2Status :

This variable is displays the status of Cooling Fan2 of BackPlane2. (0=>not avaiable; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane2DriveBay1Plugin :

This variable is displays the Plugin status of DriveBay1 of BackPlane2. (0=>not avaiable; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane2DriveBay1SCSIid :

This variable is displays the SCSI ID of DriveBay1 of BackPlane2. This MIB is Read-Only

smBackPlane2DriveBay1PowerStatus :

This variable is displays the Power status of DriveBay1 of BackPlane2. (0=>not

available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane1DriveBay2Plugin :

This variable is displays the Plugin status of DriveBay2 of BackPlane2. (0=>not available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane2DriveBay2SCSIid :

This variable is displays the SCSI ID of DriveBay2 of BackPlane2. This MIB is Read-Only

smBackPlane2DriveBay2PowerStatus :

This variable is displays the Power status of DriveBay2 of BackPlane2. (0=>not available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane2DriveBay3Plugin :

This variable is displays the Plugin status of DriveBay3 of BackPlane2. (0=>not available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane2DriveBay3SCSIid :

This variable is displays the SCSI ID of DriveBay3 of BackPlane2. This MIB is Read-Only

smBackPlane2DriveBay3PowerStatus :

This variable is displays the Power status of DriveBay3 of BackPlane2. (0=>not available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane2DriveBay4Plugin :

This variable is displays the Plugin status of DriveBay4 of BackPlane2. (0=>not available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane2DriveBay4SCSIid :

This variable is displays the SCSI ID of DriveBay4 of BackPlane2. This MIB is Read-Only

smBackPlane2DriveBay4PowerStatus :

This variable is displays the Power status of DriveBay4 of BackPlane2. (0=>not

available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane2DriveBay5Plugin :

This variable is displays the Plugin status of DriveBay5 of BackPlane2. (0=>not available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane2DriveBay5SCSIid :

This variable is displays the SCSI ID of DriveBay5 of BackPlane2. This MIB is Read-Only

smBackPlane2DriveBay5PowerStatus :

This variable is displays the Power status of DriveBay5 of BackPlane2. (0=>not available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane2AutoAdjustCoolingFanSpeedEnable :

This variable is enable(1)/disable(0) Automatic adjust Cooling Fan Speed. It is meaning for DA-BP5 only. This MIB is Read-Write

smBackPlane2AutoAdjustCoolingFanTimeInterval :

This variable is the time interval for Cooling Fan change speed grade. It is meaning for DA-BP5 only. This MIB is Read-Write

smBackPlane2CoolingFanSpeedGrade :

This variable is the Cooling Fan Speed Grade. This MIB is Read-Write

smBackPlane2CoolingFanDisable :

This variable is the Disable(1)/Enable(0) Cooling Fan. This MIB is Read-Write

smBackPlane2Remap :

This variable is Remap BackPlane2 Configuration. When the BackPlane2 need to update configuration This MIB is Read-Write

smBackPlane2DrivePowerOff :

This variable is the Power off DriveBay of the BackPlane2. It is meaning for DA-BP5 only. This MIB is Read-Write

smBackPlane3Exist :

This variable is displays BackPlane3 installed on the system. This MIB is Read-Only.

smBackPlane3IDSEL1 :

This variable is value of IDSEL1 to BackPlane3. This MIB is Read-Only.

smBackPlane3IDSEL0 :

This variable is value of IDSEL0 to BackPlane3. This MIB is Read-Only.

smBackPlane3RMTStart :

This variable is value of RMTStart to BackPlane3. It is meaning on DA-BP5 BackPlane only. This MIB is Read-Only.

smBackPlane3DLYStart :

This variable is value of DLYStart to BackPlane3. It is meaning on DA-BP5 BackPlane only. This MIB is Read-Only.

smBackPlane3Model :

This variable is BackPlane3 Model Name. This MIB is Read-Only.

smBackPlane3Temperature :

This variable informs the current temperature of the BackPlane3. The temperature unit is centigrade. This MIB is Read-Only.

smBackPlane3TemperatureHighLimit :

This variable is the threshold value for the fatal upper bound of temperature value of the BackPlane3. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 60.

smBackPlane3TemperatureLowLimit :

This variable is the threshold value for the fatal lower bound of temperature value of the BackPlane3. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is -10.

smBackPlane3TemperatureWarningHighLimit :

This variable is the threshold value for the warning upper bound of temperature value of the BackPlane3. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 50.

smBackPlane3TemperatureWarningLowLimit :

This variable is the threshold value for the warning lower bound of temperature value of the BackPlane3. The temperature unit is centigrade. This MIB is

Read-Write. The value range that user can set is from -55 to 125. The default value is 0.

smBackPlane3_5V :

This variable informs the current +5.0 voltage of the BackPlane3. The voltage unit is milli-voltage. This MIB is Read-Only.

smBackPlane3_5VHighLimit :

This variable is the threshold value for the fatal upper bound of +5.0 voltage value of the BackPlane3. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 5750.

smBackPlane3_5VLowLimit :

This variable is the threshold value for the fatal lower bound of +5.0 voltage value of the BackPlane3. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 4250.

smBackPlane3_5VWarningHighLimit :

This variable is the threshold value for the warning upper bound of +5.0 voltage value of the BackPlane3. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 5500.

smBackPlane3_5VWarningLowLimit :

This variable is the threshold value for the warning lower bound of +5.0 voltage value of the BackPlane3. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 4500.

smBackPlane3_12V :

This variable informs the current +12.0 voltage of the BackPlane3. The voltage unit is milli-voltage. This MIB is Read-Only.

smBackPlane3_12VHighLimit :

This variable is the threshold value for the fatal upper bound of +12.0 voltage value of the BackPlane3. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 13800.

smBackPlane3_12VLowLimit :

This variable is the threshold value for the fatal lower bound of +12.0 voltage value of the BackPlane3. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 10200.

smBackPlane3_12VWarningHighLimit :

This variable is the threshold value for the warning upper bound of +12.0 voltage value of the BackPlane3. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 13200.

smBackPlane3_12VWarningLowLimit :

This variable is the threshold value for the warning lower bound of +12.0 voltage value of the BackPlane3. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 10800.

smBackPlane3CoolingFan1Speed :

This variable informs the current Fan 1 of the BackPlane3. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Only.

smBackPlane3CoolingFan1SpeedLowLimit :

This variable is the threshold value for the fatal lower bound of Cooling Fan 1 value of the BackPlane3. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Write. The value range that user can set is from 1500 to 3200. The default value is 1500.

smBackPlane3CoolingFan1SpeedWarningLowLimit :

This variable is the threshold value for the warning lower bound of Cooling Fan 1 value of the BackPlane3. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Write. The value range that user can set is from 1500 to 3200. The default value is 2000.

smBackPlane3CoolingFan2Speed :

This variable informs the current Cooling Fan 2 of the BackPlane3. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Only.

smBackPlane3CoolingFan2SpeedLowLimit :

This variable is the threshold value for the fatal lower bound of Cooling Fan 2 value of the BackPlane3. The fan rotation unit is RPM (Rotate Per Minute).

This MIB is Read-Write. The value range that user can set is from 1500 to 3200. The default value is 1500.

smBackPlane3CoolingFan2SpeedWarningLowLimit :

This variable is the threshold value for the warning lower bound of Fan 2 value of the BackPlane3. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Write. The value range that user can set is from 1500 to 3200. The default value is 2000.

smBackPlane3LEDFanModuleExist :

This variable is displays the LED/Fan Moduled of BackPlane3 installed. (0=>not avaiable; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane3CoolingFan1Status :

This variable is displays the status of Cooling Fan1 of BackPlane3. (0=>not avaiable; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane3CoolingFan2Status :

This variable is displays the status of Cooling Fan2 of BackPlane3. (0=>not avaiable; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane3DriveBay1Plugin :

This variable is displays the Plugin status of DriveBay1 of BackPlane3. (0=>not avaiable; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane3DriveBay1SCSIId :

This variable is displays the SCSI ID of DriveBay1 of BackPlane3. This MIB is Read-Only

smBackPlane3DriveBay1PowerStatus :

This variable is displays the Power status of DriveBay1 of BackPlane3. (0=>not avaiable; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane3DriveBay2Plugin :

This variable is displays the Plugin status of DriveBay2 of BackPlane3. (0=>not avaiable; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane3DriveBay2SCSIId :

This variable is displays the SCSI ID of DriveBay2 of BackPlane3. This MIB is Read-Only

smBackPlane3DriveBay2PowerStatus :

This variable is displays the Power status of DriveBay2 of BackPlane3. (0=>not available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane3DriveBay3Plugin :

This variable is displays the Plugin status of DriveBay3 of BackPlane3. (0=>not available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane3DriveBay3SCSIId :

This variable is displays the SCSI ID of DriveBay3 of BackPlane3. This MIB is Read-Only

smBackPlane3DriveBay3PowerStatus :

This variable is displays the Power status of DriveBay3 of BackPlane3. (0=>not available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane3DriveBay4Plugin :

This variable is displays the Plugin status of DriveBay4 of BackPlane3. (0=>not available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane3DriveBay4SCSIId :

This variable is displays the SCSI ID of DriveBay4 of BackPlane3. This MIB is Read-Only

smBackPlane3DriveBay4PowerStatus :

This variable is displays the Power status of DriveBay4 of BackPlane3. (0=>not available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane3DriveBay5Plugin :

This variable is displays the Plugin status of DriveBay5 of BackPlane3. (0=>not available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane3DriveBay5SCSIid :

This variable is displays the SCSI ID of DriveBay5 of BackPlane3. This MIB is Read-Only

smBackPlane3DriveBay5PowerStatus :

This variable is displays the Power status of DriveBay5 of BackPlane3. (0=>not available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane3AutoAdjustCoolingFanSpeedEnable :

This variable is enable(1)/disable(0) Automatic adjust Cooling Fan Speed. It is meaning for DA-BP5 only. This MIB is Read-Write

smBackPlane3AutoAdjustCoolingFanTimeInterval :

This variable is the time interval for Cooling Fan change speed grade. It is meaning for DA-BP5 only. This MIB is Read-Write

smBackPlane3CoolingFanSpeedGrade :

This variable is the Cooling Fan Speed Grade. This MIB is Read-Write

smBackPlane3CoolingFanDisable :

This variable is the Disable(1)/Enable(0) Cooling Fan. This MIB is Read-Write

smBackPlane3Remap :

This variable is Remap BackPlane3 Configuration. When the BackPlane3 need to update configuration This MIB is Read-Write

smBackPlane3DrivePowerOff :

This variable is the Power off DriveBay of the BackPlane3. It is meaning for DA-BP5 only. This MIB is Read-Write

smBackPlane4Exist :

This variable is displays BackPlane4 installed on the system. This MIB is Read-Only.

smBackPlane4IDSEL1 :

This variable is value of IDSEL1 to BackPlane4. This MIB is Read-Only.

smBackPlane4IDSEL0 :

This variable is value of IDSEL0 to BackPlane4. This MIB is Read-Only.

smBackPlane4RMTStart :

This variable is value of RMTStart to BackPlane4. It is meaning on DA-BP5

BackPlane only. This MIB is Read-Only.

smBackPlane4DLYStart :

This variable is value of DLYStart to BackPlane4. It is meaning on DA-BP5 BackPlane only. This MIB is Read-Only.

smBackPlane4Model :

This variable is BackPlane4 Model Name. This MIB is Read-Only.

smBackPlane4Temperature :

This variable informs the current temperature of the BackPlane4. The temperature unit is centigrade. This MIB is Read-Only.

smBackPlane4TemperatureHighLimit :

This variable is the threshold value for the fatal upper bound of temperature value of the BackPlane4. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 60.

smBackPlane4TemperatureLowLimit :

This variable is the threshold value for the fatal lower bound of temperature value of the BackPlane4. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is -10.

smBackPlane4TemperatureWarningHighLimit :

This variable is the threshold value for the warning upper bound of temperature value of the BackPlane4. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 50.

smBackPlane4TemperatureWarningLowLimit :

This variable is the threshold value for the warning lower bound of temperature value of the BackPlane4. The temperature unit is centigrade. This MIB is Read-Write. The value range that user can set is from -55 to 125. The default value is 0.

smBackPlane4_5V :

This variable informs the current +5.0 voltage of the BackPlane4. The voltage unit is milli-voltage. This MIB is Read-Only.

smBackPlane4_5VHighLimit :

This variable is the threshold value for the fatal upper bound of +5.0 voltage value of the BackPlane4. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 5750.

smBackPlane4_5VLowLimit :

This variable is the threshold value for the fatal lower bound of +5.0 voltage value of the BackPlane4. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 4250.

smBackPlane4_5VWarningHighLimit :

This variable is the threshold value for the warning upper bound of +5.0 voltage value of the BackPlane4. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 5500.

smBackPlane4_5VWarningLowLimit :

This variable is the threshold value for the warning lower bound of +5.0 voltage value of the BackPlane4. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 4500.

smBackPlane4_12V :

This variable informs the current +12.0 voltage of the BackPlane3. The voltage unit is milli-voltage. This MIB is Read-Only.

smBackPlane4_12VHighLimit :

This variable is the threshold value for the fatal upper bound of +12.0 voltage value of the BackPlane4. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 13800.

smBackPlane4_12VLowLimit :

This variable is the threshold value for the fatal lower bound of +12.0 voltage value of the BackPlane4. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 10200.

smBackPlane4_12VWarningHighLimit :

This variable is the threshold value for the warning upper bound of +12.0 voltage value of the BackPlane4. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 13200.

smBackPlane4_12VWarningLowLimit :

This variable is the threshold value for the warning lower bound of +12.0 voltage value of the BackPlane4. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 10000 to 14000. The default value is 10800.

smBackPlane4CoolingFan1Speed :

This variable informs the current Fan 1 of the BackPlane4. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Only.

smBackPlane4CoolingFan1SpeedLowLimit :

This variable is the threshold value for the fatal lower bound of Cooling Fan 1 value of the BackPlane4. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Write. The value range that user can set is from 1500 to 3200. The default value is 1500.

smBackPlane4CoolingFan1SpeedWarningLowLimit :

This variable is the threshold value for the warning lower bound of Cooling Fan 1 value of the BackPlane4. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Write. The value range that user can set is from 1500 to 3200. The default value is 2000.

smBackPlane4CoolingFan2Speed :

This variable informs the current Cooling Fan 2 of the BackPlane4. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Only.

smBackPlane4CoolingFan2SpeedLowLimit :

This variable is the threshold value for the fatal lower bound of Cooling Fan 2 value of the BackPlane4. The fan rotation unit is RPM (Rotate Per Minute). This MIB is Read-Write. The value range that user can set is from 1500 to 3200. The default value is 1500.

smBackPlane4CoolingFan2SpeedWarningLowLimit :

This variable is the threshold value for the warning lower bound of Fan 2 value of the BackPlane4. The fan rotation unit is RPM (Rotate Per Minute). This MIB

is Read-Write. The value range that user can set is from 1500 to 3200. The default value is 2000.

smBackPlane4LEDFanModuleExist :

This variable is displays the LED/Fan Moduled of BackPlane4 installed. (0=>not avaiable; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane4CoolingFan1Status :

This variable is displays the status of Cooling Fan1 of BackPlane4. (0=>not avaiable; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane4CoolingFan2Status :

This variable is displays the status of Cooling Fan2 of BackPlane4. (0=>not avaiable; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane4DriveBay1Plugin :

This variable is displays the Plugin status of DriveBay1 of BackPlane4. (0=>not avaiable; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane4DriveBay1SCSIid :

This variable is displays the SCSI ID of DriveBay1 of BackPlane4. This MIB is Read-Only

smBackPlane4DriveBay1PowerStatus :

This variable is displays the Power status of DriveBay1 of BackPlane4. (0=>not avaiable; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane4DriveBay2Plugin :

This variable is displays the Plugin status of DriveBay2 of BackPlane4. (0=>not avaiable; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane4DriveBay2SCSIid :

This variable is displays the SCSI ID of DriveBay2 of BackPlane4. This MIB is Read-Only

smBackPlane4DriveBay2PowerStatus :

This variable is displays the Power status of DriveBay2 of BackPlane4. (0=>not available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane4DriveBay3Plugin :

This variable is displays the Plugin status of DriveBay3 of BackPlane4. (0=>not available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane4DriveBay3SCSIid :

This variable is displays the SCSI ID of DriveBay3 of BackPlane4. This MIB is Read-Only

smBackPlane4DriveBay3PowerStatus :

This variable is displays the Power status of DriveBay3 of BackPlane4. (0=>not available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane4DriveBay4Plugin :

This variable is displays the Plugin status of DriveBay4 of BackPlane4. (0=>not available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane4DriveBay4SCSIid :

This variable is displays the SCSI ID of DriveBay4 of BackPlane4. This MIB is Read-Only

smBackPlane4DriveBay4PowerStatus :

This variable is displays the Power status of DriveBay4 of BackPlane4. (0=>not available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane4DriveBay5Plugin :

This variable is displays the Plugin status of DriveBay5 of BackPlane4. (0=>not available; 1=>pullout by someone; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane4DriveBay5SCSIid :

This variable is displays the SCSI ID of DriveBay5 of BackPlane4. This MIB is Read-Only

smBackPlane4DriveBay5PowerStatus :

This variable is displays the Power status of DriveBay5 of BackPlane4. (0=>not available; 1=>Short-Circuit/Power-off; 2=>OK. Normal Status.) This MIB is Read-Only

smBackPlane4AutoAdjustCoolingFanSpeedEnable :

This variable is enable(1)/disable(0) Automatic adjust Cooling Fan Speed. It is meaning for DA-BP5 only. This MIB is Read-Write

smBackPlane4AutoAdjustCoolingFanTimeInterval :

This variable is the time interval for Cooling Fan change speed grade. It is meaning for DA-BP5 only. This MIB is Read-Write

smBackPlane4CoolingFanSpeedGrade :

This variable is the Cooling Fan Speed Grade. This MIB is Read-Write

smBackPlane4CoolingFanDisable :

This variable is the Disable(1)/Enable(0) Cooling Fan. This MIB is Read-Write

smBackPlane4Remap :

This variable is Remap BackPlane4 Configuration. When the BackPlane4 need to update configuration This MIB is Read-Write

smBackPlane4DrivePowerOff :

This variable is the Power off DriveBay of the BackPlane4. It is meaning for DA-BP5 only. This MIB is Read-Write

smEventActionType :

This variable is the type of Event Action. 0=>No Event Action; 1=>Reboot; 2=>PowerOff; 3=>ShutDown. This MIB is Read-Write.

smEventActionTimer :

This variable is the timer that from fatal snmp trap occurred to event action. The time unit is second. This MIB is Read-Write.

smRepeatTrapEnable :

This variable is to Enable(1)/Disable(0) snmp trap to send repeatedly.. The default value is Enable. This MIB is Read-Write.

sm5VSB :

This variable informs the current +5VSB voltage of the system. The voltage unit is milli-voltage. This MIB is Read-Only.

sm5VSBHighLimit :

This variable is the threshold value for the fatal upper bound of +5VSB voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 5750.

sm5VSBLowLimit :

This variable is the threshold value for the fatal lower bound of +5VSB voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 4250.

sm5VSBWarningHighLimit :

This variable is the threshold value for the warning upper bound of +5VSB voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 5500.

sm5VSBWarningLowLimit :

This variable is the threshold value for the warning lower bound of +5VSB voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 4200 to 5800. The default value is 4500.

smCMOSBattery :

This variable informs the current CMOS Battery voltage of the system. The voltage unit is milli-voltage. This MIB is Read-Only.

smCMOSBatteryHighLimit :

This variable is the threshold value for the fatal upper bound of CMOS Battery voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2200 to 4400. The default value is 4250.

smCMOSBatteryLowLimit :

This variable is the threshold value for the fatal lower bound of CMOS Battery voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2200 to 4400. The default value is 2450.

smCMOSBatteryWarningHighLimit :

This variable is the threshold value for the warning upper bound of CMOS Battery voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2200 to 4400. The default value is 4100.

smCMOSBatteryWarningLowLimit :

This variable is the threshold value for the warning lower bound of CMOS Battery voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2200 to 4400. The default value is 2600.

sm2dot5V :

This variable informs the current +2.5V voltage of the system. The voltage unit is milli-voltage. This MIB is Read-Only.

sm2dot5VHighLimit :

This variable is the threshold value for the fatal upper bound of +2.5V voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2000 to 3000. The default value is 2850.

sm2dot5VLowLimit :

This variable is the threshold value for the fatal lower bound of +2.5V voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2000 to 3000. The default value is 1250.

sm2dot5VWarningHighLimit :

This variable is the threshold value for the warning upper bound of +2.5V voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2000 to 3000. The default value is 2750.

sm2dot5VWarningLowLimit :

This variable is the threshold value for the warning lower bound of +2.5V voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2000 to 3000. The default value is 1350.

sm1dot5V :

This variable informs the current +1.5V voltage of the system. The voltage unit is milli-voltage. This MIB is Read-Only.

sm1dot5VHighLimit :

This variable is the threshold value for the fatal upper bound of +1.5V voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 1000 to 2000. The default value is 1750.

sm1dot5VLowLimit :

This variable is the threshold value for the fatal lower bound of +1.5V voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 1000 to 2000. The default value is 1250.

sm1dot5VWarningHighLimit :

This variable is the threshold value for the warning upper bound of +1.5V voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 1000 to 2000. The default value is 1650.

sm1dot5VWarningLowLimit :

This variable is the threshold value for the warning lower bound of +1.5V voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 1000 to 2000. The default value is 1350.

smNVRAMBattery :

This variable informs the current NVRAM Battery voltage of the system. The voltage unit is milli-voltage. This MIB is Read-Only.

smNVRAMBatteryHighLimit :

This variable is the threshold value for the fatal upper bound of NVRAM Battery voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2200 to 4400. The default value is 4250.

smNVRAMBatteryLowLimit :

This variable is the threshold value for the fatal lower bound of NVRAM Battery voltage value of the system. The voltage unit is milli-voltage. The

voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2200 to 4400. The default value is 2450.

smNVRAMBatteryWarningHighLimit :

This variable is the threshold value for the warning upper bound of NVRAM Battery voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2200 to 4400. The default value is 4100.

smNVRAMBatteryWarningLowLimit :

This variable is the threshold value for the warning lower bound of NVRAM Battery voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2200 to 4400. The default value is 2600.

sm3VSB :

This variable informs the current +3VSB voltage of the system. The voltage unit is milli-voltage. This MIB is Read-Only.

sm3VSBHighLimit :

This variable is the threshold value for the fatal upper bound of +3VSB voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2200 to 4400. The default value is 3950.

sm3VSBLowLimit :

This variable is the threshold value for the fatal lower bound of +3VSB voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2200 to 4400. The default value is 2700.

sm3VSBWarningHighLimit :

This variable is the threshold value for the warning upper bound of +3VSB voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2200 to 4400. The default value is 3800.

sm3VSBWarningLowLimit :

This variable is the threshold value for the warning lower bound of +3VSB voltage value of the system. The voltage unit is milli-voltage. The voltage unit is milli-voltage. This MIB is Read-Write. The value range that user can set is from 2200 to 4400. The default value is 2900.

smAutoAdjustCPUFanSpeedEnable :

This variable is enable(1)/disable(0) Automatic adjust CPU Fan Speed. The default value is disable. This MIB is Read-Write

smAutoAdjustCPUFanTimeInterval :

This variable is the time interval for CPU Fan change speed grade. This MIB is Read-Write

smCPUFanSpeedGrade :

This variable is the CPU Fan Speed Grade. This MIB is Read-Write

smAutoAdjustChassisFanSpeedEnable :

This variable is enable(1)/disable(0) Automatic adjust Chassis Fan Speed. The default value is disable. This MIB is Read-Write

smAutoAdjustChassisFanTimeInterval :

This variable is the time interval for Chassis Fan change speed grade. This MIB is Read-Write

smChassisFanSpeedGrade :

This variable is the Chassis Fan Speed Grade. This MIB is Read-Write

PS : User must always set the threshold's values as following:

smXXXHighLimit > smXXXWarningHighLimit > smXXXWarningLowLimit > smXXXLowLimit

II. ASUS Private Enterprise Alarm MIB Description :

smTemperatureNormalAlarm :

This variable is for trap to inform when the Normal temperature of the system is occurred.

smTemperatureHighLimitAlarm :

This variable is for trap to inform when the fatal high temperature of the system is occurred.

smTemperatureLowLimitAlarm :

This variable is for trap to inform when the fatal low temperature of the system is occurred.

smTemperatureWarningHighLimitAlarm :

This variable is for trap to inform when the warning high temperature of the system is occurred.

smTemperatureWarningLowLimitAlarm :

This variable is for trap to inform when the warning low temperature of the system is occurred.

smVoltVcore1NormalAlarm :

This variable is for trap to inform when the Normal VCORE1's (CPU 1) voltage of the system is occurred.

smVoltVcore1HighLimitAlarm :

This variable is for trap to inform when the fatal high VCORE1's (CPU 1) voltage of the system is occurred.

smVoltVcore1LowLimitAlarm :

This variable is for trap to inform when the fatal low VCORE1's (CPU 1) voltage of the system is occurred.

smVoltVcore1WarningHighLimitAlarm :

This variable is for trap to inform when the warning high VCORE1's (CPU 1) voltage of the system is occurred.

smVoltVcore1WarningLowLimitAlarm :

This variable is for trap to inform when the warning low VCORE1's (CPU 1) voltage of the system is occurred.

smVoltVcore2NormalAlarm :

This variable is for trap to inform when the Normal VCORE2's (CPU 2 if have otherwise CPU 1) voltage of the system is occurred.

smVoltVcore2HighLimitAlarm :

This variable is for trap to inform when the fatal high VCORE2's (CPU 2 if have otherwise CPU 1) voltage of the system is occurred.

smVoltVcore2LowLimitAlarm :

This variable is for trap to inform when the fatal low VCORE2's (CPU 2 if have otherwise CPU 1) voltage of the system is occurred.

smVoltVcore2WarningHighLimitAlarm :

This variable is for trap to inform when the warning high VCORE2's (CPU 2 if have otherwise CPU 1) voltage of the system is occurred.

smVoltVcore2WarningLowLimitAlarm :

This variable is for trap to inform when the warning low VCORE2's (CPU 2 if have otherwise CPU 1) voltage of the system is occurred.

sm3VNormalAlarm :

This variable is for trap to inform when the Normal +3.3 voltage of the system is occurred.

sm3VHighLimitAlarm :

This variable is for trap to inform when the fatal high +3.3 voltage of the system is occurred.

sm3VLowLimitAlarm :

This variable is for trap to inform when the fatal low +3.3 voltage of the system is occurred.

sm3VWarningHighLimitAlarm :

This variable is for trap to inform when the warning high +3.3 voltage of the system is occurred.

sm3VWarningLowLimitAlarm :

This variable is for trap to inform when the warning low +3.3 voltage of the system is occurred.

sm5VNormaltAlarm :

This variable is for trap to inform when the Normal +5.0 voltage of the system is occurred.

sm5VHighLimitAlarm :

This variable is for trap to inform when the fatal high +5.0 voltage of the system is occurred.

sm5VLowLimitAlarm :

This variable is for trap to inform when the fatal low +5.0 voltage of the system is occurred.

sm5VWarningHighLimitAlarm :

This variable is for trap to inform when the warning high +5.0 voltage of the system is occurred.

sm5VWarningLowLimitAlarm :

This variable is for trap to inform when the warning low +5.0 voltage of the system is occurred.

sm12VNormalAlarm :

This variable is for trap to inform when the Normal +12.0 voltage of the system is occurred.

sm12VHighLimitAlarm :

This variable is for trap to inform when the fatal high +12.0 voltage of the system is occurred.

sm12VLowLimitAlarm :

This variable is for trap to inform when the fatal low +12.0 voltage of the system is occurred.

sm12VWarningHighLimitAlarm :

This variable is for trap to inform when the warning high +12.0 voltage of the system is occurred.

sm12VWarningLowLimitAlarm :

This variable is for trap to inform when the warning low +12.0 voltage of the system is occurred.

sm-12VNormalAlarm :

This variable is for trap to inform when the Normal -12.0 voltage of the system is occurred.

sm-12VHighLimitAlarm :

This variable is for trap to inform when the fatal high -12.0 voltage of the system is occurred.

sm-12VLowLimitAlarm :

This variable is for trap to inform when the fatal low -12.0 voltage of the system is occurred.

sm-12VWarningHighLimitAlarm :

This variable is for trap to inform when the warning high -12.0 voltage of the system is occurred.

sm-12VWarningLowLimitAlarm :

This variable is for trap to inform when the warning low -12.0 voltage of the system is occurred.

sm-5VNormaltAlarm :

This variable is for trap to inform when the Normal -5.0 voltage of the system is occurred.

sm-5VHighLimitAlarm :

This variable is for trap to inform when the fatal high -5.0 voltage of the system is occurred.

sm-5VLowLimitAlarm :

This variable is for trap to inform when the fatal low -5.0 voltage of the system is occurred.

sm-5VWarningHighLimitAlarm :

This variable is for trap to inform when the warning high -5.0 voltage of the system is occurred.

sm-5VWarningLowLimitAlarm :

This variable is for trap to inform when the warning low -5.0 voltage of the system is occurred.

smFan1NormalAlarm :

This variable is for trap to inform when the Normal Fan 1 (Chassis Fan) of the system is occurred.

smFan1LowLimitAlarm :

This variable is for trap to inform when the fatal low Fan 1 (Chassis Fan) of the system is occurred.

smFan1WarningLowLimitAlarm :

This variable is for trap to inform when the warning low Fan 1 (Chassis Fan) of the system is occurred.

smFan2NormalAlarm :

This variable is for trap to inform when the Normal Fan 2 (CPU1 Fan) of the system is occurred.

smFan2LowLimitAlarm :

This variable is for trap to inform when the fatal low Fan 2 (CPU1 Fan) of the system is occurred.

smFan2WarningLowLimitAlarm :

This variable is for trap to inform when the warning low Fan 2 (CPU1 Fan) of the system is occurred.

smFan3NormalAlarm :

This variable is for trap to inform when the Normal Fan 3 (CPU2 or Power Fan) of the system is occurred.

smFan3LowLimitAlarm :

This variable is for trap to inform when the fatal low Fan 3 (CPU2 or Power Fan) of the system is occurred.

smFan3WarningLowLimitAlarm :

This variable is for trap to inform when the warning low Fan 3 (CPU2 or Power Fan) of the system is occurred.

smChassisIntrusionNormalAlarm :

This variable is for trap to inform when the computer system Chassis Intrusion is resolved.

smChassisIntrusionAlarm :

This variable is for trap to inform when the computer system Chassis Intrusion is occurred.

smCPU1TemperatureNormalAlarm :

This variable is for trap to inform when the Normal CPU1 temperature of the system is occurred.

smCPU1TemperatureHighLimitAlarm :

This variable is for trap to inform when the fatal high CPU1 temperature of the system is occurred.

smCPU1TemperatureLowLimitAlarm :

This variable is for trap to inform when the fatal low CPU1 temperature of the system is occurred.

smCPU1TemperatureWarningHighLimitAlarm :

This variable is for trap to inform when the warning high CPU1 temperature of the system is occurred.

smCPU1TemperatureWarningLowLimitAlarm :

This variable is for trap to inform when the warning low CPU1 temperature of the system is occurred.

smCPU2TemperatureNormalAlarm :

This variable is for trap to inform when the Normal CPU2 (or Regulator) temperature of the system is occurred.

smCPU2TemperatureHighLimitAlarm :

This variable is for trap to inform when the fatal high CPU2 (or Regulator) temperature of the system is occurred.

smCPU2TemperatureLowLimitAlarm :

This variable is for trap to inform when the fatal low CPU2 (or Regulator) temperature of the system is occurred.

smCPU2TemperatureWarningHighLimitAlarm :

This variable is for trap to inform when the warning high CPU2 (or Regulator) temperature of the system is occurred.

smCPU2TemperatureWarningLowLimitAlarm :

This variable is for trap to inform when the warning low CPU2 (or Regulator) temperature of the system is occurred.

smBackPlane1TemperatureNormalAlarm :

This variable is for trap to inform when the Normal temperature of the BackPlane1 is occurred.

smBackPlane1TemperatureHighLimitAlarm :

This variable is for trap to inform when the fatal high temperature of the BackPlane1 is occurred.

smBackPlane1TemperatureLowLimitAlarm :

This variable is for trap to inform when the fatal low temperature of the BackPlane1 is occurred.

smBackPlane1TemperatureWarningHighLimitAlarm :

This variable is for trap to inform when the warning high temperature of the BackPlane1 is occurred.

smBackPlane1TemperatureWarningLowLimitAlarm :

This variable is for trap to inform when the warning low temperature of the BackPlane1 is occurred.

smBackPlane1_5VNormalAlarm :

This variable is for trap to inform when the Normal +5.0 voltage of the BackPlane1 is occurred.

smBackPlane1_5VHighLimitAlarm :

This variable is for trap to inform when the fatal high +5.0 voltage of the BackPlane1 is occurred.

smBackPlane1_5VLowLimitAlarm :

This variable is for trap to inform when the fatal low +5.0 voltage of the BackPlane1 is occurred.

smBackPlane1_5VWarningHighLimitAlarm :

This variable is for trap to inform when the warning high +5.0 voltage of the BackPlane1 is occurred.

smBackPlane1_5VWarningLowLimitAlarm :

This variable is for trap to inform when the warning low +5.0 voltage of the BackPlane1 is occurred.

smBackPlane1_12VNormaltAlarm :

This variable is for trap to inform when the Normal +12.0 voltage of the BackPlane1 is occurred.

smBackPlane1_12VHighLimitAlarm :

This variable is for trap to inform when the fatal high +12.0 voltage of the BackPlane1 is occurred.

smBackPlane1_12VLowLimitAlarm :

This variable is for trap to inform when the fatal low +12.0 voltage of the BackPlane1 is occurred.

smBackPlane1_12VWarningHighLimitAlarm :

This variable is for trap to inform when the warning high +12.0 voltage of the BackPlane1 is occurred.

smBackPlane1_12VWarningLowLimitAlarm :

This variable is for trap to inform when the warning low +12.0 voltage of the BackPlane1 is occurred.

smBackPlane1CoolingFan1SpeedNormalAlarm :

This variable is for trap to inform when the Normal CoolingFan1 Speed of the BackPlane1 is occurred.

smBackPlane1CoolingFan1SpeedLowLimitAlarm :

This variable is for trap to inform when the fatal low CoolingFan1 Speed of the BackPlane1 is occurred.

smBackPlane1CoolingFan1SpeedWarningLowLimitAlarm :

This variable is for trap to inform when the warning low CoolingFan1 Speed of the BackPlane1 is occurred.

smBackPlane1CoolingFan2SpeedNormalAlarm :

This variable is for trap to inform when the Normal CoolingFan2 Speed of the BackPlane1 is occurred.

smBackPlane1CoolingFan2SpeedLowLimitAlarm :

This variable is for trap to inform when the fatal low CoolingFan2 Speed of the BackPlane1 is occurred.

smBackPlane1CoolingFan2SpeedWarningLowLimitAlarm :

This variable is for trap to inform when the warning low CoolingFan2 Speed of the BackPlane1 is occurred.

smBackPlane1LEDFanExistNormalAlarm :

This variable is for trap informs the LED/Fan Module of the BackPlane1 is PlugIn.

smBackPlane1LEDFanExistAlarm :

This variable is for trap informs the LED/Fan Module of the BackPlane1 is PullOut.

smBackPlane1CoolingFan1StatusNormalAlarm :

This variable is for trap informs the Cooling Fan1 of the BackPlane1 is back to Normal Status.

smBackPlane1CoolingFan1StatusAlarm :

This variable is for trap informs the Cooling Fan1 of the BackPlane1 is abnormal status (stop or pullout).

smBackPlane1CoolingFan2StatusNormalAlarm :

This variable is for trap informs the Cooling Fan2 of the BackPlane1 is back to Normal Status.

smBackPlane1CoolingFan2StatusAlarm :

This variable is for trap informs the Cooling Fan2 of the BackPlane1 is abnormal status (stop or pullout).

smBackPlane1DriveBay1PluginNormalAlarm :

This variable is for trap informs the Drive Bay1 of the BackPlane1 is back to Normal Status.

smBackPlane1DriveBay1PluginAlarm :

This variable is for trap informs the Drive Bay1 of the BackPlane1 is pull out by someone.

smBackPlane1DriveBay1PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay1 of the BackPlane1 is back to Normal Status.

smBackPlane1DriveBay1PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay1 of the BackPlane1 is short-circuit/Off.

smBackPlane1DriveBay2PluginNormalAlarm :

This variable is for trap informs the Drive Bay2 of the BackPlane1 is back to Normal Status.

smBackPlane1DriveBay2PluginAlarm :

This variable is for trap informs the Drive Bay2 of the BackPlane1 is pull out by someone.

smBackPlane1DriveBay2PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay2 of the BackPlane1 is back to Normal Status.

smBackPlane1DriveBay2PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay2 of the BackPlane1 is short-circuit/Off.

smBackPlane1DriveBay3PluginNormalAlarm :

This variable is for trap informs the Drive Bay3 of the BackPlane1 is back to Normal Status.

smBackPlane1DriveBay3PluginAlarm :

This variable is for trap informs the Drive Bay3 of the BackPlane1 is pull out by someone.

smBackPlane1DriveBay3PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay3 of the BackPlane1 is back to Normal Status.

smBackPlane1DriveBay3PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay3 of the BackPlane1 is short-circuit/Off.

smBackPlane1DriveBay4PluginNormalAlarm :

This variable is for trap informs the Drive Bay4 of the BackPlane1 is back to Normal Status.

smBackPlane1DriveBay4PluginAlarm :

This variable is for trap informs the Drive Bay4 of the BackPlane1 is pull out by someone.

smBackPlane1DriveBay4PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay4 of the BackPlane1 is back to Normal Status.

smBackPlane1DriveBay4PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay4 of the BackPlane1 is short-circuit/Off.

smBackPlane1DriveBay5PluginNormalAlarm :

This variable is for trap informs the Drive Bay5 of the BackPlane1 is back to Normal Status.

smBackPlane1DriveBay5PluginAlarm :

This variable is for trap informs the Drive Bay5 of the BackPlane1 is pull out by someone.

smBackPlane1DriveBay5PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay5 of the BackPlane1 is back to Normal Status.

smBackPlane1DriveBay5PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay5 of the BackPlane1 is short-circuit/Off.

smBackPlane2TemperatureNormalAlarm :

This variable is for trap to inform when the Normal temperature of the BackPlane2 is occurred.

smBackPlane2TemperatureHighLimitAlarm :

This variable is for trap to inform when the fatal high temperature of the BackPlane2 is occurred.

smBackPlane2TemperatureLowLimitAlarm :

This variable is for trap to inform when the fatal low temperature of the BackPlane2 is occurred.

smBackPlane2TemperatureWarningHighLimitAlarm :

This variable is for trap to inform when the warning high temperature of the BackPlane2 is occurred.

smBackPlane2TemperatureWarningLowLimitAlarm :

This variable is for trap to inform when the warning low temperature of the BackPlane2 is occurred.

smBackPlane2_5VNormaltAlarm :

This variable is for trap to inform when the Normal +5.0 voltage of the BackPlane2 is occurred.

smBackPlane2_5VHighLimitAlarm :

This variable is for trap to inform when the fatal high +5.0 voltage of the BackPlane2 is occurred.

smBackPlane2_5VLowLimitAlarm :

This variable is for trap to inform when the fatal low +5.0 voltage of the BackPlane2 is occurred.

smBackPlane2_5VWarningHighLimitAlarm :

This variable is for trap to inform when the warning high +5.0 voltage of the BackPlane2 is occurred.

smBackPlane2_5VWarningLowLimitAlarm :

This variable is for trap to inform when the warning low +5.0 voltage of the BackPlane2 is occurred.

smBackPlane2_12VNormalAlarm :

This variable is for trap to inform when the Normal +12.0 voltage of the BackPlane2 is occurred.

smBackPlane2_12VHighLimitAlarm :

This variable is for trap to inform when the fatal high +12.0 voltage of the BackPlane2 is occurred.

smBackPlane2_12VLowLimitAlarm :

This variable is for trap to inform when the fatal low +12.0 voltage of the BackPlane2 is occurred.

smBackPlane2_12VWarningHighLimitAlarm :

This variable is for trap to inform when the warning high +12.0 voltage of the BackPlane2 is occurred.

smBackPlane2_12VWarningLowLimitAlarm :

This variable is for trap to inform when the warning low +12.0 voltage of the BackPlane2 is occurred.

smBackPlane2CoolingFan1SpeedNormalAlarm :

This variable is for trap to inform when the Normal CoolingFan1 Speed of the BackPlane2 is occurred.

smBackPlane2CoolingFan1SpeedLowLimitAlarm :

This variable is for trap to inform when the fatal low CoolingFan1 Speed of the BackPlane2 is occurred.

smBackPlane2CoolingFan1SpeedWarningLowLimitAlarm :

This variable is for trap to inform when the warning low CoolingFan1 Speed of the BackPlane2 is occurred.

smBackPlane2CoolingFan2SpeedNormalAlarm :

This variable is for trap to inform when the Normal CoolingFan2 Speed of the BackPlane2 is occurred.

smBackPlane2CoolingFan2SpeedLowLimitAlarm :

This variable is for trap to inform when the fatal low CoolingFan2 Speed of the BackPlane2 is occurred.

smBackPlane2CoolingFan2SpeedWarningLowLimitAlarm :

This variable is for trap to inform when the warning low CoolingFan2 Speed of the BackPlane2 is occurred.

smBackPlane2LEDFanExistNormalAlarm :

This variable is for trap informs the LED/Fan Module of the BackPlane2 is PlugIn.

smBackPlane2LEDFanExistAlarm :

This variable is for trap informs the LED/Fan Module of the BackPlane2 is PullOut.

smBackPlane2CoolingFan1StatusNormalAlarm :

This variable is for trap informs the Cooling Fan1 of the BackPlane2 is back to Normal Status.

smBackPlane2CoolingFan1StatusAlarm :

This variable is for trap informs the Cooling Fan1 of the BackPlane2 is abnormal status (stop or pullout).

smBackPlane2CoolingFan2StatusNormalAlarm :

This variable is for trap informs the Cooling Fan2 of the BackPlane2 is back to Normal Status.

smBackPlane2CoolingFan2StatusAlarm :

This variable is for trap informs the Cooling Fan2 of the BackPlane2 is abnormal status (stop or pullout).

smBackPlane2DriveBay1PluginNormalAlarm :

This variable is for trap informs the Drive Bay1 of the BackPlane2 is back to Normal Status.

smBackPlane2DriveBay1PluginAlarm :

This variable is for trap informs the Drive Bay1 of the BackPlane2 is pull out by someone.

smBackPlane2DriveBay1PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay1 of the BackPlane2 is back to Normal Status.

smBackPlane2DriveBay1PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay1 of the BackPlane2 is short-circuit/Off.

smBackPlane2DriveBay2PluginNormalAlarm :

This variable is for trap informs the Drive Bay2 of the BackPlane2 is back to Normal Status.

smBackPlane2DriveBay2PluginAlarm :

This variable is for trap informs the Drive Bay2 of the BackPlane2 is pull out by someone.

smBackPlane2DriveBay2PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay2 of the BackPlane2 is back to Normal Status.

smBackPlane2DriveBay2PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay2 of the BackPlane2 is short-circuit/Off.

smBackPlane2DriveBay3PluginNormalAlarm :

This variable is for trap informs the Drive Bay3 of the BackPlane2 is back to Normal Status.

smBackPlane2DriveBay3PluginAlarm :

This variable is for trap informs the Drive Bay3 of the BackPlane2 is pull out by someone.

smBackPlane2DriveBay3PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay3 of the BackPlane2 is back to Normal Status.

smBackPlane2DriveBay3PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay3 of the BackPlane2 is short-circuit/Off.

smBackPlane2DriveBay4PluginNormalAlarm :

This variable is for trap informs the Drive Bay4 of the BackPlane2 is back to Normal Status.

smBackPlane2DriveBay4PluginAlarm :

This variable is for trap informs the Drive Bay4 of the BackPlane2 is pull out by someone.

smBackPlane2DriveBay4PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay4 of the BackPlane2 is back to Normal Status.

smBackPlane2DriveBay4PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay4 of the BackPlane2 is short-circuit/Off.

smBackPlane2DriveBay5PluginNormalAlarm :

This variable is for trap informs the Drive Bay5 of the BackPlane2 is back to Normal Status.

smBackPlane2DriveBay5PluginAlarm :

This variable is for trap informs the Drive Bay5 of the BackPlane2 is pull out by someone.

smBackPlane2DriveBay5PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay5 of the BackPlane2 is back to Normal Status.

smBackPlane2DriveBay5PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay5 of the BackPlane2 is short-circuit/Off.

smBackPlane3TemperatureNormalAlarm :

This variable is for trap to inform when the Normal temperature of the BackPlane3 is occurred.

smBackPlane3TemperatureHighLimitAlarm :

This variable is for trap to inform when the fatal high temperature of the BackPlane3 is occurred.

smBackPlane3TemperatureLowLimitAlarm :

This variable is for trap to inform when the fatal low temperature of the BackPlane3 is occurred.

smBackPlane3TemperatureWarningHighLimitAlarm :

This variable is for trap to inform when the warning high temperature of the BackPlane3 is occurred.

smBackPlane3TemperatureWarningLowLimitAlarm :

This variable is for trap to inform when the warning low temperature of the BackPlane3 is occurred.

smBackPlane3_5VNormaltAlarm :

This variable is for trap to inform when the Normal +5.0 voltage of the BackPlane3 is occurred.

smBackPlane3_5VHighLimitAlarm :

This variable is for trap to inform when the fatal high +5.0 voltage of the BackPlane3 is occurred.

smBackPlane3_5VLowLimitAlarm :

This variable is for trap to inform when the fatal low +5.0 voltage of the BackPlane3 is occurred.

smBackPlane3_5VWarningHighLimitAlarm :

This variable is for trap to inform when the warning high +5.0 voltage of the BackPlane3 is occurred.

smBackPlane3_5VWarningLowLimitAlarm :

This variable is for trap to inform when the warning low +5.0 voltage of the BackPlane3 is occurred.

smBackPlane3_12VNormaltAlarm :

This variable is for trap to inform when the Normal +12.0 voltage of the BackPlane3 is occurred.

smBackPlane3_12VHighLimitAlarm :

This variable is for trap to inform when the fatal high +12.0 voltage of the BackPlane3 is occurred.

smBackPlane3_12VLowLimitAlarm :

This variable is for trap to inform when the fatal low +12.0 voltage of the BackPlane3 is occurred.

smBackPlane3_12VWarningHighLimitAlarm :

This variable is for trap to inform when the warning high +12.0 voltage of the BackPlane3 is occurred.

smBackPlane3_12VWarningLowLimitAlarm :

This variable is for trap to inform when the warning low +12.0 voltage of the BackPlane3 is occurred.

smBackPlane3CoolingFan1SpeedNormalAlarm :

This variable is for trap to inform when the Normal CoolingFan1 Speed of the BackPlane3 is occurred.

smBackPlane3CoolingFan1SpeedLowLimitAlarm :

This variable is for trap to inform when the fatal low CoolingFan1 Speed of the BackPlane3 is occurred.

smBackPlane3CoolingFan1SpeedWarningLowLimitAlarm :

This variable is for trap to inform when the warning low CoolingFan1 Speed of the BackPlane3 is occurred.

smBackPlane3CoolingFan2SpeedNormalAlarm :

This variable is for trap to inform when the Normal CoolingFan2 Speed of the BackPlane3 is occurred.

smBackPlane3CoolingFan2SpeedLowLimitAlarm :

This variable is for trap to inform when the fatal low CoolingFan2 Speed of the BackPlane3 is occurred.

smBackPlane3CoolingFan2SpeedWarningLowLimitAlarm :

This variable is for trap to inform when the warning low CoolingFan2 Speed of the BackPlane3 is occurred.

smBackPlane3LEDFanExistNormalAlarm :

This variable is for trap informs the LED/Fan Module of the BackPlane3 is PlugIn.

smBackPlane3LEDFanExistAlarm :

This variable is for trap informs the LED/Fan Module of the BackPlane3 is PullOut.

smBackPlane3CoolingFan1StatusNormalAlarm :

This variable is for trap informs the Cooling Fan1 of the BackPlane3 is back to Normal Status.

smBackPlane3CoolingFan1StatusAlarm :

This variable is for trap informs the Cooling Fan1 of the BackPlane3 is abnormal status (stop or pullout).

smBackPlane3CoolingFan2StatusNormalAlarm :

This variable is for trap informs the Cooling Fan2 of the BackPlane3 is back to Normal Status.

smBackPlane3CoolingFan2StatusAlarm :

This variable is for trap informs the Cooling Fan2 of the BackPlane3 is abnormal status (stop or pullout).

smBackPlane3DriveBay1PluginNormalAlarm :

This variable is for trap informs the Drive Bay1 of the BackPlane3 is back to Normal Status.

smBackPlane3DriveBay1PluginAlarm :

This variable is for trap informs the Drive Bay1 of the BackPlane3 is pull out by someone.

smBackPlane3DriveBay1PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay1 of the BackPlane3 is back to Normal Status.

smBackPlane3DriveBay1PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay1 of the BackPlane3 is short-circuit/Off.

smBackPlane3DriveBay2PluginNormalAlarm :

This variable is for trap informs the Drive Bay2 of the BackPlane3 is back to Normal Status.

smBackPlane3DriveBay2PluginAlarm :

This variable is for trap informs the Drive Bay2 of the BackPlane3 is pull out by someone.

smBackPlane3DriveBay2PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay2 of the BackPlane3 is back to Normal Status.

smBackPlane3DriveBay2PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay2 of the BackPlane3 is short-circuit/Off.

smBackPlane3DriveBay3PluginNormalAlarm :

This variable is for trap informs the Drive Bay3 of the BackPlane3 is back to Normal Status.

smBackPlane3DriveBay3PluginAlarm :

This variable is for trap informs the Drive Bay3 of the BackPlane3 is pull out by someone.

smBackPlane3DriveBay3PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay3 of the BackPlane3 is back to Normal Status.

smBackPlane3DriveBay3PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay3 of the BackPlane3 is short-circuit/Off.

smBackPlane3DriveBay4PluginNormalAlarm :

This variable is for trap informs the Drive Bay4 of the BackPlane3 is back to Normal Status.

smBackPlane3DriveBay4PluginAlarm :

This variable is for trap informs the Drive Bay4 of the BackPlane3 is pull out by someone.

smBackPlane3DriveBay4PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay4 of the BackPlane3 is back to Normal Status.

smBackPlane3DriveBay4PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay4 of the BackPlane3 is short-circuit/Off.

smBackPlane3DriveBay5PluginNormalAlarm :

This variable is for trap informs the Drive Bay5 of the BackPlane3 is back to Normal Status.

smBackPlane3DriveBay5PluginAlarm :

This variable is for trap informs the Drive Bay5 of the BackPlane3 is pull out by someone.

smBackPlane3DriveBay5PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay5 of the BackPlane3 is back to Normal Status.

smBackPlane3DriveBay5PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay5 of the BackPlane3 is short-circuit/Off.

smBackPlane4TemperatureNormalAlarm :

This variable is for trap to inform when the Normal temperature of the BackPlane4 is occurred.

smBackPlane4TemperatureHighLimitAlarm :

This variable is for trap to inform when the fatal high temperature of the BackPlane4 is occurred.

smBackPlane4TemperatureLowLimitAlarm :

This variable is for trap to inform when the fatal low temperature of the BackPlane4 is occurred.

smBackPlane4TemperatureWarningHighLimitAlarm :

This variable is for trap to inform when the warning high temperature of the BackPlane4 is occurred.

smBackPlane4TemperatureWarningLowLimitAlarm :

This variable is for trap to inform when the warning low temperature of the BackPlane4 is occurred.

smBackPlane4_5VNormaltAlarm :

This variable is for trap to inform when the Normal +5.0 voltage of the BackPlane4 is occurred.

smBackPlane4_5VHighLimitAlarm :

This variable is for trap to inform when the fatal high +5.0 voltage of the BackPlane4 is occurred.

smBackPlane4_5VLowLimitAlarm :

This variable is for trap to inform when the fatal low +5.0 voltage of the BackPlane4 is occurred.

smBackPlane4_5VWarningHighLimitAlarm :

This variable is for trap to inform when the warning high +5.0 voltage of the BackPlane4 is occurred.

smBackPlane4_5VWarningLowLimitAlarm :

This variable is for trap to inform when the warning low +5.0 voltage of the BackPlane4 is occurred.

smBackPlane4_12VNormaltAlarm :

This variable is for trap to inform when the Normal +12.0 voltage of the BackPlane4 is occurred.

smBackPlane4_12VHighLimitAlarm :

This variable is for trap to inform when the fatal high +12.0 voltage of the BackPlane4 is occurred.

smBackPlane4_12VLowLimitAlarm :

This variable is for trap to inform when the fatal low +12.0 voltage of the BackPlane4 is occurred.

smBackPlane4_12VWarningHighLimitAlarm :

This variable is for trap to inform when the warning high +12.0 voltage of the BackPlane4 is occurred.

smBackPlane4_12VWarningLowLimitAlarm :

This variable is for trap to inform when the warning low +12.0 voltage of the BackPlane4 is occurred.

smBackPlane4CoolingFan1SpeedNormalAlarm :

This variable is for trap to inform when the Normal CoolingFan1 Speed of the BackPlane4 is occurred.

smBackPlane4CoolingFan1SpeedLowLimitAlarm :

This variable is for trap to inform when the fatal low CoolingFan1 Speed of the BackPlane4 is occurred.

smBackPlane4CoolingFan1SpeedWarningLowLimitAlarm :

This variable is for trap to inform when the warning low CoolingFan1 Speed of the BackPlane4 is occurred.

smBackPlane4CoolingFan2SpeedNormalAlarm :

This variable is for trap to inform when the Normal CoolingFan2 Speed of the BackPlane4 is occurred.

smBackPlane4CoolingFan2SpeedLowLimitAlarm :

This variable is for trap to inform when the fatal low CoolingFan2 Speed of the BackPlane4 is occurred.

smBackPlane4CoolingFan2SpeedWarningLowLimitAlarm :

This variable is for trap to inform when the warning low CoolingFan2 Speed of the BackPlane4 is occurred.

smBackPlane4LEDFanExistNormalAlarm :

This variable is for trap informs the LED/Fan Module of the BackPlane4 is PlugIn.

smBackPlane4LEDFanExistAlarm :

This variable is for trap informs the LED/Fan Module of the BackPlane4 is PullOut.

smBackPlane4CoolingFan1StatusNormalAlarm :

This variable is for trap informs the Cooling Fan1 of the BackPlane4 is back to Normal Status.

smBackPlane4CoolingFan1StatusAlarm :

This variable is for trap informs the Cooling Fan1 of the BackPlane4 is abnormal status (stop or pullout).

smBackPlane4CoolingFan2StatusNormalAlarm :

This variable is for trap informs the Cooling Fan2 of the BackPlane4 is back to Normal Status.

smBackPlane4CoolingFan2StatusAlarm :

This variable is for trap informs the Cooling Fan2 of the BackPlane4 is abnormal status (stop or pullout).

smBackPlane4DriveBay1PluginNormalAlarm :

This variable is for trap informs the Drive Bay1 of the BackPlane4 is back to Normal Status.

smBackPlane4DriveBay1PluginAlarm :

This variable is for trap informs the Drive Bay1 of the BackPlane4 is pull out by someone.

smBackPlane4DriveBay1PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay1 of the BackPlane4 is back to Normal Status.

smBackPlane4DriveBay1PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay1 of the BackPlane4 is short-circuit/Off.

smBackPlane4DriveBay2PluginNormalAlarm :

This variable is for trap informs the Drive Bay2 of the BackPlane4 is back to Normal Status.

smBackPlane4DriveBay2PluginAlarm :

This variable is for trap informs the Drive Bay2 of the BackPlane4 is pull out by someone.

smBackPlane4DriveBay2PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay2 of the BackPlane4 is back to Normal Status.

smBackPlane4DriveBay2PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay2 of the BackPlane4 is short-circuit/Off.

smBackPlane4DriveBay3PluginNormalAlarm :

This variable is for trap informs the Drive Bay3 of the BackPlane4 is back to Normal Status.

smBackPlane4DriveBay3PluginAlarm :

This variable is for trap informs the Drive Bay3 of the BackPlane4 is pull out by someone.

smBackPlane4DriveBay3PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay3 of the BackPlane4 is back to Normal Status.

smBackPlane4DriveBay3PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay3 of the BackPlane4 is short-circuit/Off.

smBackPlane4DriveBay4PluginNormalAlarm :

This variable is for trap informs the Drive Bay4 of the BackPlane4 is back to Normal Status.

smBackPlane4DriveBay4PluginAlarm :

This variable is for trap informs the Drive Bay4 of the BackPlane4 is pull out by someone.

smBackPlane4DriveBay4PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay4 of the BackPlane4 is back to Normal Status.

smBackPlane4DriveBay4PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay4 of the BackPlane4 is short-circuit/Off.

smBackPlane4DriveBay5PluginNormalAlarm :

This variable is for trap informs the Drive Bay5 of the BackPlane4 is back to Normal Status.

smBackPlane4DriveBay5PluginAlarm :

This variable is for trap informs the Drive Bay5 of the BackPlane4 is pull out by someone.

smBackPlane4DriveBay5PowerStatusNormalAlarm :

This variable is for trap informs the Power of Drive Bay5 of the BackPlane4 is back to Normal Status.

smBackPlane4DriveBay5PowerStatusAlarm :

This variable is for trap informs the Power of Drive Bay5 of the BackPlane4 is short-circuit/Off.

sm5VSBNormaltAlarm :

This variable is for trap to inform when the Normal +5VSB voltage of the system is occurred.

sm5VSBHighLimitAlarm :

This variable is for trap to inform when the fatal high +5VSB voltage of the system is occurred.

sm5VSBLowLimitAlarm :

This variable is for trap to inform when the fatal low +5VSB voltage of the system is occurred.

sm5VSBWarningHighLimitAlarm :

This variable is for trap to inform when the warning high +5VSB voltage of the system is occurred.

sm5VSBWarningLowLimitAlarm :

This variable is for trap to inform when the warning low +5VSB voltage of the system is occurred.

smCMOSBatteryNormaltAlarm :

This variable is for trap to inform when the Normal CMOS Battery voltage of the system is occurred.

smCMOSBatteryHighLimitAlarm :

This variable is for trap to inform when the fatal high CMOS Battery voltage of the system is occurred.

smCMOSBatteryLowLimitAlarm :

This variable is for trap to inform when the fatal low CMOS Battery voltage of the system is occurred.

smCMOSBatteryWarningHighLimitAlarm :

This variable is for trap to inform when the warning high CMOS Battery voltage of the system is occurred.

smCMOSBatteryWarningLowLimitAlarm :

This variable is for trap to inform when the warning low CMOS Battery voltage of the system is occurred.

sm2dot5VNormaltAlarm :

This variable is for trap to inform when the Normal +2.5V voltage of the system is occurred.

sm2dot5VHighLimitAlarm :

This variable is for trap to inform when the fatal high +2.5V voltage of the system is occurred.

sm2dot5VLowLimitAlarm :

This variable is for trap to inform when the fatal low +2.5V voltage of the system is occurred.

sm2dot5VWarningHighLimitAlarm :

This variable is for trap to inform when the warning high +2.5V voltage of the system is occurred.

sm2dot5VWarningLowLimitAlarm :

This variable is for trap to inform when the warning low +2.5V voltage of the system is occurred.

sm1dot5VNormaltAlarm :

This variable is for trap to inform when the Normal +1.5V voltage of the system is occurred.

sm1dot5VHighLimitAlarm :

This variable is for trap to inform when the fatal high +1.5V voltage of the system is occurred.

sm1dot5VLowLimitAlarm :

This variable is for trap to inform when the fatal low +1.5V voltage of the system is occurred.

sm1dot5VWarningHighLimitAlarm :

This variable is for trap to inform when the warning high +1.5V voltage of the system is occurred.

sm1dot5VWarningLowLimitAlarm :

This variable is for trap to inform when the warning low +1.5V voltage of the system is occurred.

smNVRAMBatteryNormalAlarm :

This variable is for trap to inform when the Normal NVRAM Battery voltage of the system is occurred.

smNVRAMBatteryHighLimitAlarm :

This variable is for trap to inform when the fatal high NVRAM Battery voltage of the system is occurred.

smNVRAMBatteryLowLimitAlarm :

This variable is for trap to inform when the fatal low NVRAM Battery voltage of the system is occurred.

smNVRAMBatteryWarningHighLimitAlarm :

This variable is for trap to inform when the warning high NVRAM Battery voltage of the system is occurred.

smNVRAMBatteryWarningLowLimitAlarm :

This variable is for trap to inform when the warning low NVRAM Battery voltage of the system is occurred.

sm3VSBNormalAlarm :

This variable is for trap to inform when the Normal +3VSB voltage of the system is occurred.

sm3VSBHighLimitAlarm :

This variable is for trap to inform when the fatal high +3VSB voltage of the system is occurred.

sm3VSBLowLimitAlarm :

This variable is for trap to inform when the fatal low +3VSB voltage of the system is occurred.

sm3VSBWarningHighLimitAlarm :

This variable is for trap to inform when the warning high +3VSB voltage of the system is occurred.

sm3VSBWarningLowLimitAlarm :

This variable is for trap to inform when the warning low +3VSB voltage of the system is occurred.

smPower1Plug OBJECT-TYPE

This variable is the plugin status of power module 1.

smPower1DC OBJECT-TYPE

This variable is the DC status of power module 1.

smPower1AC OBJECT-TYPE

This variable is the AC status of power module 1.

smPower2Plug OBJECT-TYPE

This variable is the plugin status of power module 2.

smPower2DC OBJECT-TYPE

This variable is the DC status of power module 2.

smPower2AC OBJECT-TYPE

This variable is the AC status of power module 2.

smPowerFan OBJECT-TYPE

This variable is the fan status of power supply.

smPower1PlugNormalAlarm OBJECT-TYPE

This variable is for trap informs the power module 1 is plugin.

smPower1PlugAlarm OBJECT-TYPE

This variable is for trap informs the power module 1 is plugout.

smPower1DCNormalAlarm OBJECT-TYPE

This variable is for trap informs the DC stats of power module 1 is good.

smPower1DCAlarm OBJECT-TYPE

This variable is for trap informs the DC stats of power module 1 is bad.

smPower1ACNormalAlarm OBJECT-TYPE

This variable is for trap informs the AC stats of power module 1 is bad.

smPower1ACAlarm OBJECT-TYPE

This variable is for trap informs the AC stats of power module 1 is bad.

smPower2PlugNormalAlarm OBJECT-TYPE

This variable is for trap informs the power module 2 is plugin.

smPower2PlugAlarm OBJECT-TYPE

This variable is for trap informs the power module 2 is plugout.

smPower2DCNormalAlarm OBJECT-TYPE

This variable is for trap informs the DC stats of power module 2 is good.

smPower2DCAlarm OBJECT-TYPE

This variable is for trap informs the DC stats of power module 2 is bad.

smPower2ACNormalAlarm OBJECT-TYPE

This variable is for trap informs the DC stats of power module 2 is good.

smPower2ACAlarm OBJECT-TYPE

This variable is for trap informs the DC stats of power module 2 is bad.

smPowerFanNormalAlarm OBJECT-TYPE

This variable is for trap informs the normal power fan is occur.

smPowerFanAlarm OBJECT-TYPE

This variable is for trap informs the the bad power fan is occur.

smFruMBChassisType OBJECT-TYPE

This variable is the chassis type for the motherboard.

smFruMBChassisPartNumber OBJECT-TYPE

This variable is the chassis part number for the motherboard.

smFruMBChassisSerialNumber OBJECT-TYPE

This variable is the chassis serial number for the motherboard.

smFruMBBoardDateTime OBJECT-TYPE

This variable is the board Mfg. Date / Time for the motherboard.

smFruMBBoardManufacturer OBJECT-TYPE

This variable is the board Manufacturer for the motherboard.

smFruMBBoardProductName OBJECT-TYPE

This variable is the board product name for the motherboard.

smFruMBBoardSerialNumber OBJECT-TYPE

This variable is the board serial number for the motherboard.

smFruMBBoardPartNumber OBJECT-TYPE

This variable is the board part number for the motherboard.

smFruMBProductManufacturer OBJECT-TYPE

This variable is the product manufacturer for the motherboard.

smFruMBProductProductName OBJECT-TYPE

This variable is the product name for the motherboard.

smFruMBProductPartNumber OBJECT-TYPE

This variable is the product part number for the motherboard.

smFruMBProductVersion OBJECT-TYPE

This variable is the product version for the motherboard.

smFruMBProductSerialNumber OBJECT-TYPE

This variable is the product serial number for the motherboard.

smFruMBBoardMacAddress1 OBJECT-TYPE

This variable is the MAC address 1 for the motherboard.

smFruMBBoardMacAddress2 OBJECT-TYPE

This variable is the MAC address 2 for the motherboard.

smFruRiserBoardDateTime OBJECT-TYPE

This variable is the board Mfg. Date / Time for the riser card.

smFruRiserBoardManufacturer OBJECT-TYPE

This variable is the board Manufacturer for the riser card.

smFruRiserBoardProductName OBJECT-TYPE

This variable is the board product name for the riser card.

smFruRiserBoardSerialNumber OBJECT-TYPE

This variable is the board serial number for the riser card.

smFruRiserBoardPartNumber OBJECT-TYPE

This variable is the board part number for the riser card.

smFruBp1BoardDateTime OBJECT-TYPE

This variable is the board Mfg. Date / Time for the backplane 1.

smFruBp1rBoardManufacturer OBJECT-TYPE

This variable is the board Manufacturer for the backplane 1.

smFruBp1BoardProductName OBJECT-TYPE

This variable is the board product name for the backplane 1.

smFruBp1BoardSerialNumber OBJECT-TYPE

This variable is the board serial number for the backplane 1.

smFruBp1BoardPartNumber OBJECT-TYPE

This variable is the board part number for the backplane 1.

smFruBp2BoardDateTime OBJECT-TYPE

This variable is the board Mfg. Date / Time for the backplane 2.

smFruBp2rBoardManufacturer OBJECT-TYPE

This variable is the board Manufacturer for the backplane 2.

smFruBp2BoardProductName OBJECT-TYPE

This variable is the board product name for the backplane 2.

smFruBp2BoardSerialNumber OBJECT-TYPE

This variable is the board serial number for the backplane 2.

smFruBp2BoardPartNumber OBJECT-TYPE

This variable is the board part number for the backplane 2.

smFruBp3BoardDateTime OBJECT-TYPE

This variable is the board Mfg. Date / Time for the backplane 3.

smFruBp3rBoardManufacturer OBJECT-TYPE

This variable is the board Manufacturer for the backplane 3.

smFruBp3BoardProductName OBJECT-TYPE

This variable is the board product name for the backplane 3.

smFruBp3BoardSerialNumber OBJECT-TYPE

This variable is the board serial number for the backplane 3.

smFruBp3BoardPartNumber OBJECT-TYPE

This variable is the board part number for the backplane 3.

smFruBp4BoardDateTime OBJECT-TYPE

This variable is the board Mfg. Date / Time for the backplane 4.

smFruBp4rBoardManufacturer OBJECT-TYPE

This variable is the board Manufacturer for the backplane 4.

smFruBp4BoardProductName OBJECT-TYPE

This variable is the board product name for the backplane 4.

smFruBp4BoardSerialNumber OBJECT-TYPE

This variable is the board serial number for the backplane 4.

smFruBp4BoardPartNumber OBJECT-TYPE

This variable is the board part number for the backplane 4.

smFruPowerPanelProductManufacturere OBJECT-TYPE

This variable is the product manufacturer for the power supply panel.

smFruPowerPanelrProductProductName OBJECT-TYPE

This variable is the product name for the power supply panel.

smFruPowerPanelProductPartNumber OBJECT-TYPE

This variable is the product part number for the power supply panel.

smFruPowerPanelProductVersion OBJECT-TYPE

This variable is the product version for the power supply panel.

smFruPowerPanelProductSerialNumber OBJECT-TYPE

This variable is the product serial number for the power supply panel.

smFruPower1ProductManufacturere OBJECT-TYPE

This variable is the product manufacturer for the power module 1.

smFruPower1rProductProductName OBJECT-TYPE

This variable is the product name for the power module 1.

smFruPower1ProductPartNumber OBJECT-TYPE

This variable is the product part number for the power module 1.

smFruPower1ProductVersion OBJECT-TYPE

This variable is the product version for the power module 1.

smFruPower1ProductSerialNumber OBJECT-TYPE

This variable is the product serial number for the power module 1.

smFruPower2ProductManufacturere OBJECT-TYPE

This variable is the product manufacturer for the power module 2.

smFruPower2rProductProductName OBJECT-TYPE

This variable is the product name for the power module 2.

smFruPower2ProductPartNumber OBJECT-TYPE

This variable is the product part number for the power module 2.

smFruPower2ProductVersion OBJECT-TYPE

This variable is the product version for the power module 2.

smFruPower2ProductSerialNumber OBJECT-TYPE

This variable is the product serial number for the power module 2.

smFan4 OBJECT-TYPE

**This variable informs the current Fan 4 of the system.
The fan rotation unit is RPM (Rotate Per Minute).**

smFan4LowLimit OBJECT-TYPE

**This variable is the threshold for the fatal low Fan 4 limit of the system.
The fan rotation unit is RPM (Rotate Per Minute).**

smFan4WarningLowLimit OBJECT-TYPE

**This variable is the threshold for the warning low Fan 4 limit of the system.
The fan rotation unit is RPM (Rotate Per Minute).**

smFan4NormalAlarm OBJECT-TYPE

This variable is for trap informs the Normal Fan 4 of the system is occur.

smFan4LowLimitAlarm OBJECT-TYPE

This variable is for trap informs the fatal low Fan 4 of the system is occur.

smFan4WarningLowLimitAlarm OBJECT-TYPE

This variable is for trap informs the warning low Fan 4 of the system is occur.

smAlertMailEnable OBJECT-TYPE

This variable enable/disable Alert Mail.