ASWM Enterprise

System Web-based Management

User Manual

E6960

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Disclaimer

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About this guide

Audience

This user guide is intended for system integrators, and experienced users with at least basic knowledge of configuring a server.

Contents

This guide contains the following parts:

Chapter 1: Getting Started

This chapter introduces the ASWM Enterpirse, and tells how to install and uninstall it under Windows platform.

Chapter 2: Deployment Management

This chapter describes how to deploy ASWM Enterprise agents and remove agents through AD or manually.

Chapter 3: Main Server Functions

This chapter describes the Main Server Functions, including Monitor, Account Management, Deployment Management, Remote Control, and Server Configuration.

Chapter 4: Client Monitor Information

This chapter describes system status and information of the client.

Appendix: Reference information

This appendix includes a glossary of terms used in this document.

Conventions

To make sure that you perform certain tasks properly, take note of the following symbols used throughout this manual.

WARNING: Information to prevent injury to yourself when trying to complete a task.

CAUTION: Information to prevent damage to the components when trying to complete a task.

IMPORTANT: Instructions that you MUST follow to complete a task.

NOTE: Tips and information to aid in completing a task.

Reference

Visit the ASUS websites worldwide that provide updated information for all ASUS hardware and software products. Refer to the ASUS contact information for details.

Chapter 1

This chapter introduces the ASWM Enterprise, and tells how to install and uninstall it under Windows platform.

Getting Started

1.1 Introduction to ASWM Enterprise

Welcome! Thank for buying our server products bundled with ASWM Enterprise System Web-based Management software. The ASWM Enterprise is a proprietary server management solution that gives a vital distinction to our servers.

In server management, system stability is a major factor, with efficiency, cost-effectiveness, and convenience following close behind. To comply with this, we have created a reliable and user-friendly ASWM Enterprise monitoring tool. The ASWM Enterprise is a web-based interface that allows system administrators to conveniently manage computers either locally (from the same server), or remotely (using a web-browser).

With its colorful, graphical, and informative interface, the ASWM Enterprise makes server management a delightful experience!

1.1.1 How ASWM Enterprise works

The ASWM Enterprise is composed of an “agent” that generally acts as a data collector, and a set of HTTP web pages that serve as the user interface (UI). The data collected by the agent, which are essential for the continuous monitoring operations performed by ASWM Enterprise, are displayed in the UI.

In the monitoring process, the agent basically keeps track of the hardware and software status of the system. The agent has “sensors” that monitor fan rotation speeds (in RPM), working voltages, motherboard and CPU temperatures, and the backplane (if present).

In addition, the agent also monitors hard disk drives health status through the SMART (Self-Monitoring, Analysis, and Reporting Technology) feature, space utilization of a file system, CPU or system memory loading, and even the traffic status of a network device.

The agent records the history of the detected status of all monitored hardware items. The status record includes the time of alert events (fan, voltage, or temperature), and the type of alert event (critical, warning, or normal).

You can also configure ASWM Enterprise to react to exceptional situations. For example, the administrator can be automatically notified by e-mail when a hard drive starts to malfunction or when a chassis intrusion is detected. In this way, ASWM Enterprise acts as an active guardian of the system’s key components.

1.1.2 Supported OS platforms

The ASWM Enterprise agent supports the Microsoft Windows platform, including Windows 2003 Server, Windows 2003 R2 Server, Windows 2008 Server, and Windows 2008 R2 Server platform. You can choose the appropriate package depending on the primary OS installation of your server.

The ASWM Enterprise web pages are fully compatible with W3C HTML 4.0/DOM standard. The web browsers with Microsoft Silverlight support can work with ASWM Enterprise:

OS	Internet Explorer 9	Internet Explorer 8	Internet Explorer 7	Internet Explorer 6	Firefox 3+	Safari 3+	Chrome 4+
Windows Vista	√	√	√		√		√
Windows 7	√	√			√		√
Windows Server 2008	√	√	√		√		√
Windows Server 2008 R2	√	√					√
Windows Server 2003, Windows XP SP2, SP3		√	√	√	√		√
Windows 2000 SP4 +KB891861*				√			
Macintosh OS 10.4.11+ (Intel-based)					√	√	

***Microsoft Consumer Supprt ends July 13, 2010 for this product.**

1.2 ASWM Enterprise installation

You can install ASWM Enterprise in Windows platform. Proceed to the succeeding sections for the instructions that are applicable to your operating system.

1.2.1 ASWM Enterprise main server requirement

System Requirement

- Microsoft SQL Server 2005 or above (Including Express version)
- Web Server IIS 6 or above
- NET Framework 3.5 SP1
- NET Framework 4.0 (Full)
- Active Directory (Deployment by Active Directory)

* Time zone setting must be the same

Important Notice for Windows Server 2008 or above

Ensure to add the following Features / Roles

- **Features: .NET Framework 3.5.1**
- **Roles: Web Server (IIS)**
- **Role Services under WebServer(IIS):**

  (A) Common Http Features (and all sub-items) have to be selected.

  (B) IIS 6 Management Compatibility (and all sub-items) have to be selected.

  (C) Application Development

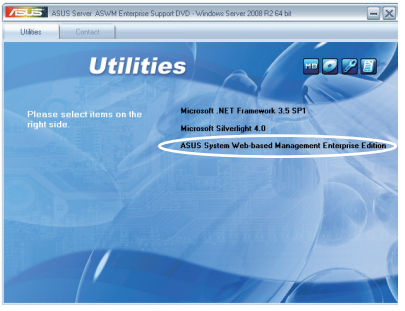
  - **ASP.NET**
  - **NET Extensibility**
  - **ISAPI Extensions**
  - **ISAPI Filters**

1.2.2 Installing ASWM Enterprise

Any user with administrator privileges on the local system can install ASWM Enterprise.

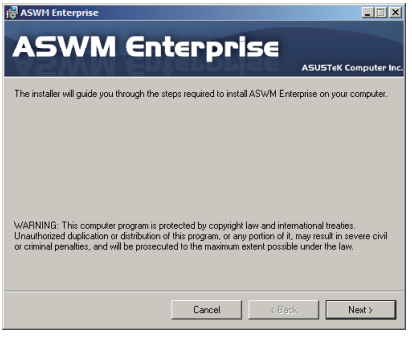
To install ASWM Enterprise in Windows:

1. Insert the support DVD into the optical drive and click **ASUS System Web-based Management Enterprise Edition**.

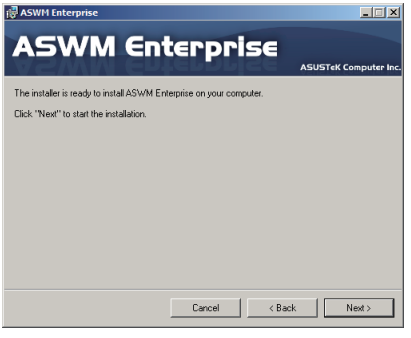


Ensure that your system meets the requirements metioned in the previous page.

2. The ASWM Enterprise Setup program wizard appears. Click **Next** to continue.

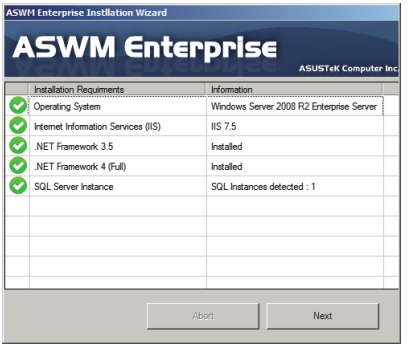


3. Click **Next** to start installation.



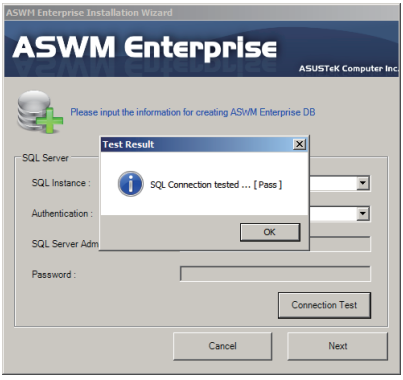
4. The system is installing ASWM Enterprise.

5. The system is checking the installation requirements. Click **Next** to continue.



6. Select an **Authentication** type and click **Connection Test** to proceed.

7. After passing the Connection Test, click **OK** and **Next** to continue.



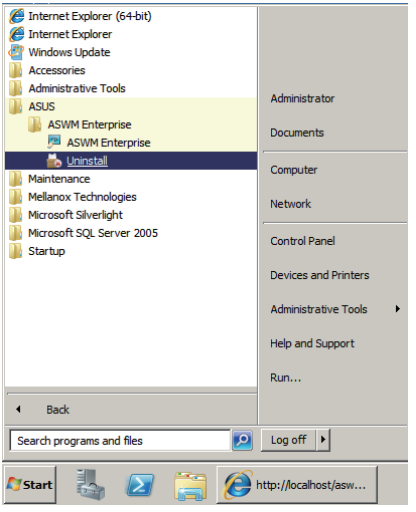
8. When the installation completes, click **Close** to exit the wizard.

1.3 Uninstalling ASWM Enterprise

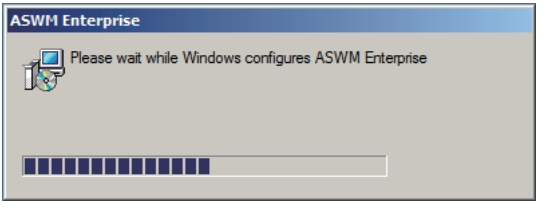
1.3.1 Uninstalling from Windows

To uninstall ASWM Enterprise from a Windows platform:

1. Click **Start > All Programs > ASUS > ASWM Enterprise > Uninstall**.



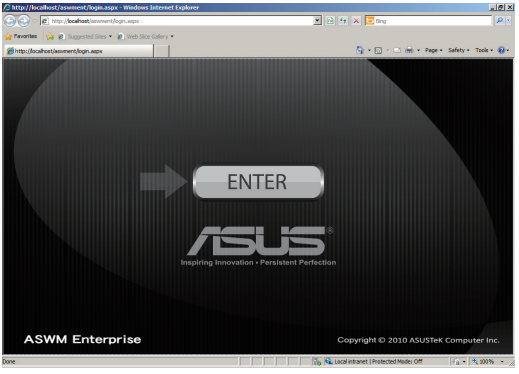
2. The system automatically uninstalls ASWM Enterprise.



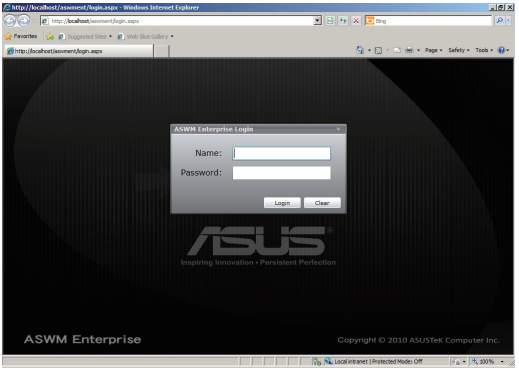
1.4 Login ASWM Enterprise

To login ASWM Enterprise:

1. Double-click the ASWM Enterprise shortcut on the desktop when you login from the local server. If you login from the remote server, enter the ASWM Enterprise website (http://HostName(IP)/aswment) through the web browser.
2. Click **Enter**.



3. Enter your **Name** and **Password**. Click **Login** to enter ASWM Enterprise.



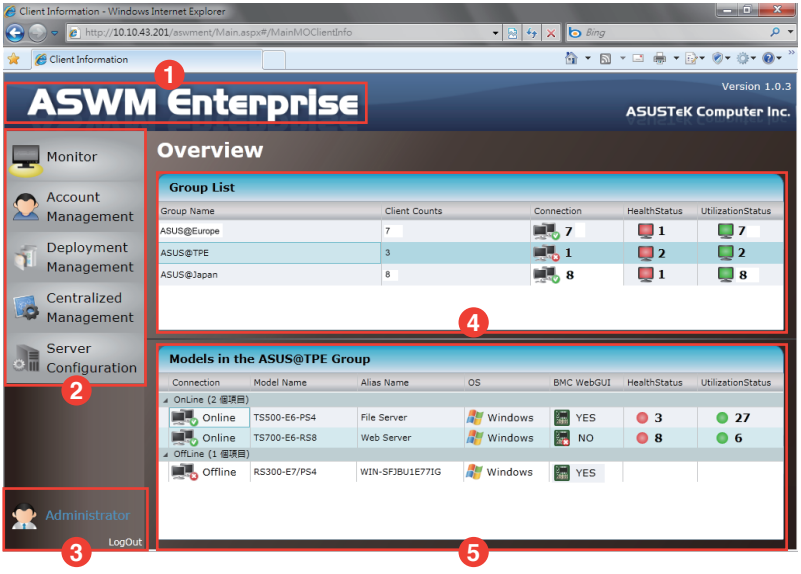
- The default **login name: Administrator**, **password: aswm**. Note that the login name and password are case sensitive. Refer to **Account Management** if you would like to change the password.
- In additional to **Administrator**, You can also login as a **User**. Note that users have only limited privileges. **Login name: User**; **password: user**.

Limitation when logining as a User

- Only limited functions, including **Monitor** and **Account Management** are available.
- **HW Sensor** is read-only. You cannot customize the threshold.
- You cannot delete the EventLog, but you are allowed to use the **Advanced Search** function.
- **Utilization** is read-only. You cannot customize the threshold.
- You can check the information of the installed software, but **Service** of starting, restarting or stopping the selected service is unavailable. Ending process is also unavailable.
- **Remote Control** is dimmed and unavailable.
- Deleting SEL information on BMC is not allowed.
- **BIOS Flash** is read-only. You cannot flash the BIOS.
- **Configuration** in **Monitor** is unavailable.

1.5 The main page

The main control panel of the ASWM Enterprise user interface is displayed as shown.



1 **Full screen view** : Click this banner to switch to the full screen view and press <Esc> to return to the normal window view. You cannot input text in the full screen view.

2 **Function buttons** : The overall functions of ASWM Enterprise, inlcuding health monitoring, account management, deployment management, centralized management, and server configuration. Refer to later chapters for details.

3 **Login information** : This area displays the login ID. Different login users have different level of controlling ASWM Enterprise. Click **LogOut** to exit ASWM Enterprise.

4 **Group List** : The Group List shows the existing groups. It is more convenient for administrator to manage a large number of computers through groups.

5 **Models in the group** : This area shows the computers and their general information in your selected group above.

Chapter 2

This chapter describes how to deploy ASWM Enterprise agents and remove agents through AD or manually.

Deployment management

2.1 Deploying new ASWM Enterprise agent

Install new ASWM Enterpise agents on computer and add them the ASWM Enterprise server for convenient management, monitor and control.

ASWM Enterprise client agent system requirement

.NET Framework 3.5

Firewall Setting

- Allow "Windows Management Instrumentation (WMI)"
- Allow "File And Printer Share"
- Allow "ICMP Packet Response"

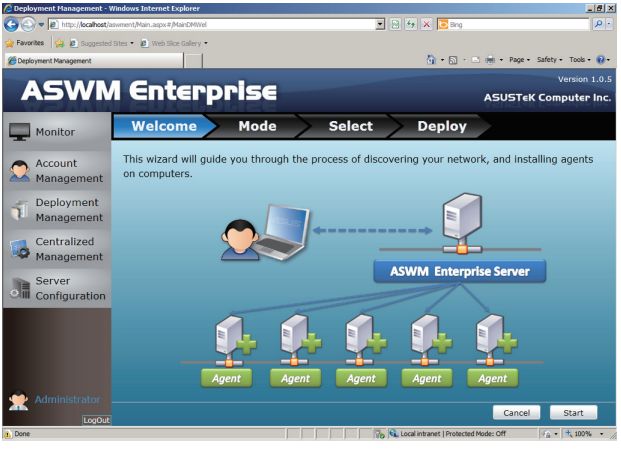
2.1.1 Automatically scanning the active directory

To deploy new agents

1. Click **Deployment Management** on the left.

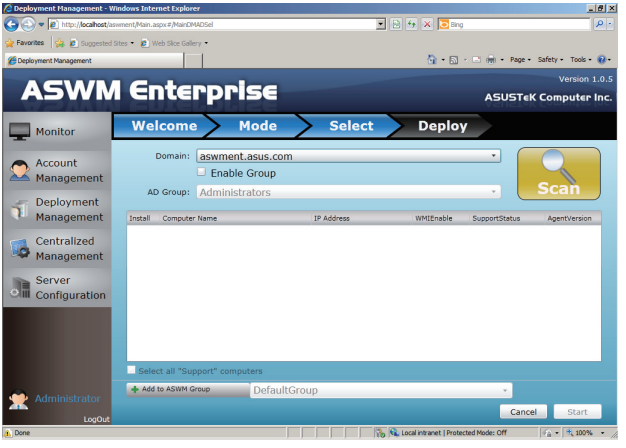
2. Click **Deploy New ASWM Enterprise Agent**.

3. The wizard will guide you through the deployment process. Click **Start** to continue.

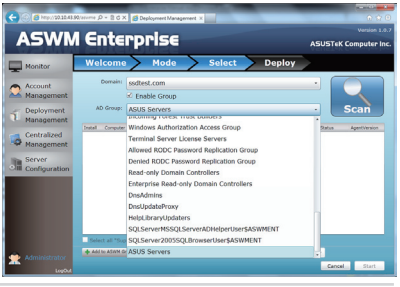


4. Select **Automatically Scan the Active Directory** and click **Next** to continue. The system will automatically scan the directory for agents.

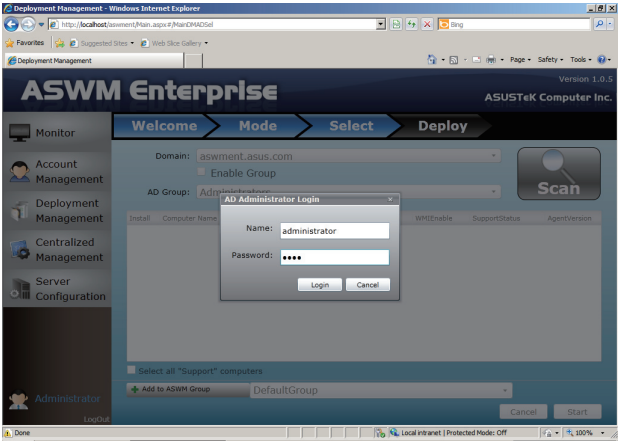
5. Select a **Domain** and click **Scan** to start scanning.



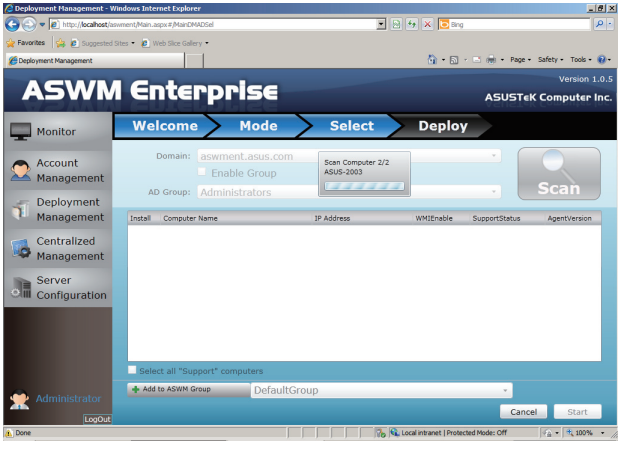
Click **Enable Group** and select a desired group to downsize the scanning range. Doing so shortens the time for agent deployment.



6. Enter the **Name** and **Passowrd** to login as the AD Administrator.



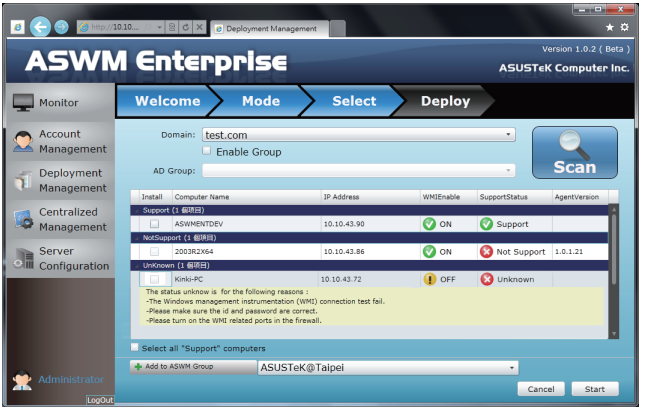
7. The system starts scanning.



8. Click wanted computers to deploy agents and click **Start**. The computer must be listed as **Support** in the **SupportStatus** field. Click the computer that shows **Not Support,** the reasons will be shown below.

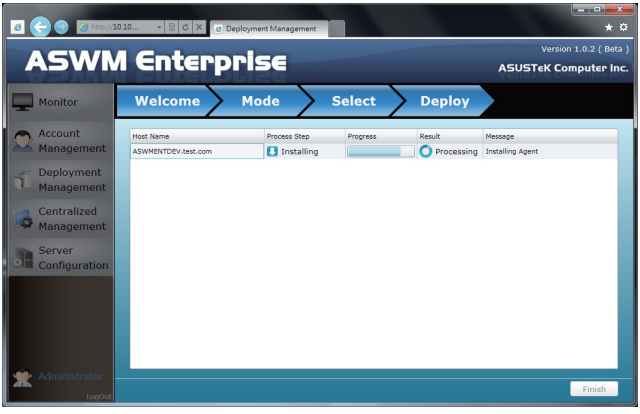
   If your wanted computers are listed as **Not Support**. Double check the followings:

   - If it is a supported model. Refer to the beginning of the section for details.
   - If it has installed .NET 3.5
   - If it has installed ASWM Enterprise Agent
   - If old ASWM version existed



- Click **Select all "Support" computers** if you want to deploy agents on all Support Computers.
- Click **Add to ASWM Group** if you would like to catergorize the selected computers to different groups.
- The **SupportStatus** shows **Unknown** when **WMIEnable** shows **OFF**.

9. The deployment starts.

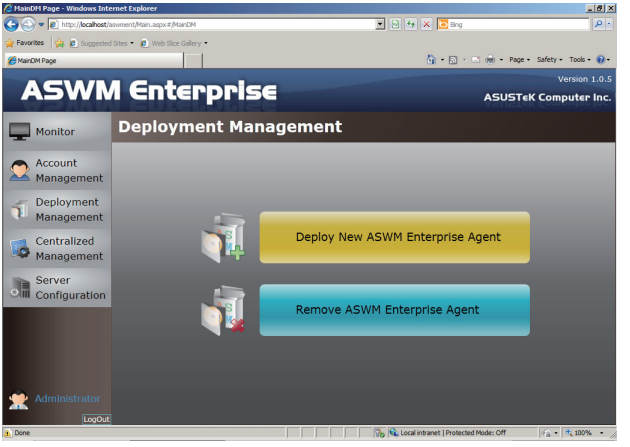


2.1.2 Manually deploying the ASWM Enterprise agents

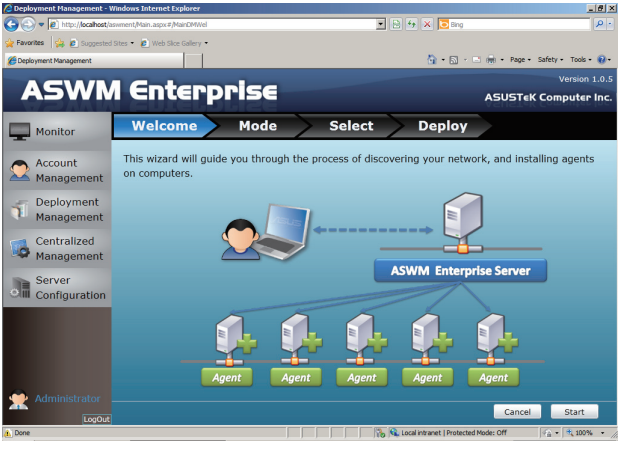
To deploy new agents

1. Click **Deployment Management** on the left.

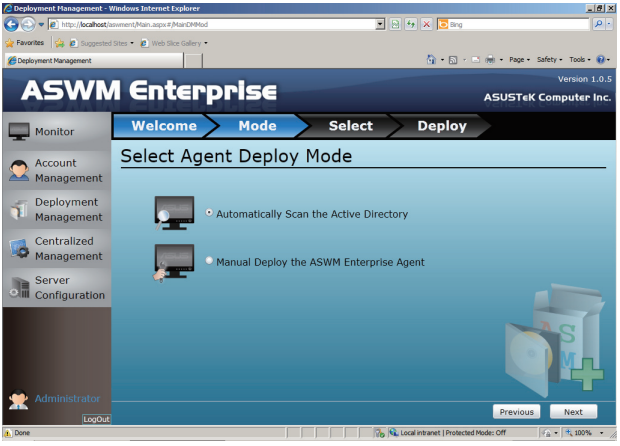
2. Click **Deploy New ASWM Enterprise Agent**.



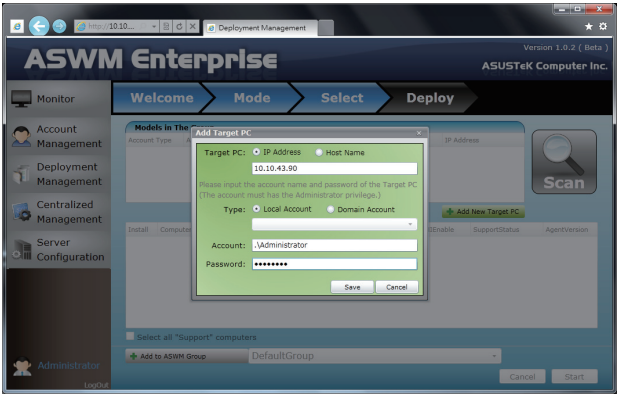
3. The wizard will guide you through the deployment process. Click **Start** to continue.



4. Select **Manual Deploy the ASWM Enterprise Agent** and click **Next** to continue.



5. Click **Add Target PC**. You can add the target PC through IP Address or Host Name. Fill in the required fileds and click **Scan**.



6. Follow the instructions in the previous section to install the agent when the scanning result is shown.

2.2 Removing ASWM Enterprise agent

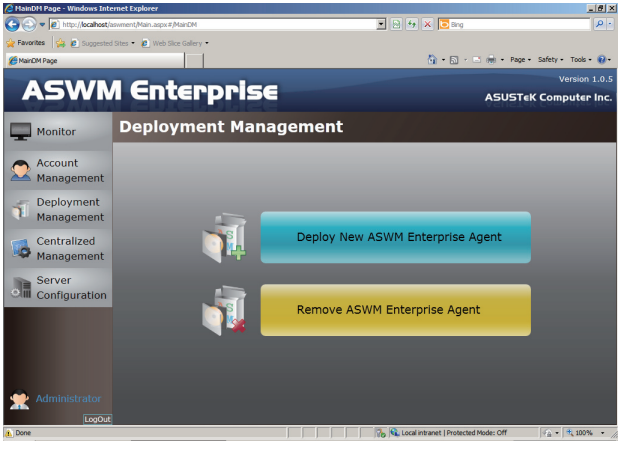
You are allowed to remove the ASWM Enterprise agents from the main server or in Active Directory.

2.2.1 Scanning the self ASWM main server

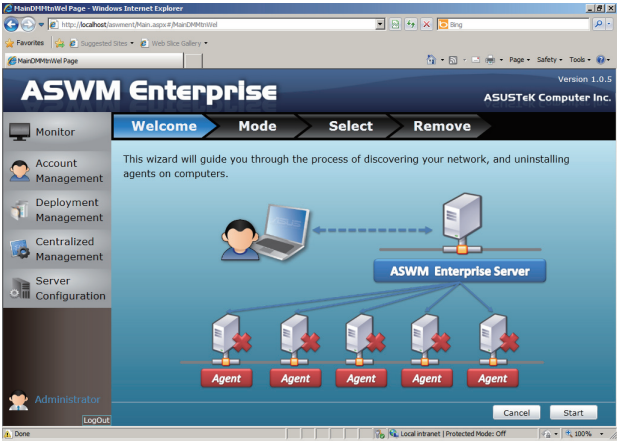
To remove the existing agents

1. Click **Deployment Management** on the left.

2. Click **Remove ASWM Enterprise Agent**.

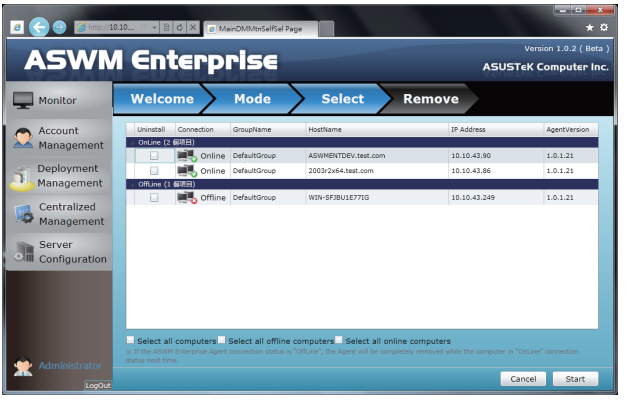


3. The wizard will guide you through the uninstallation process. Click **Start** to continue.



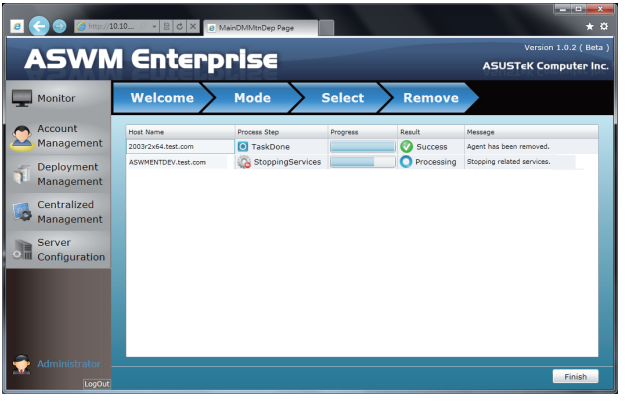
4. Click **Scan the self ASWM Enterprise Main Server** and click **Next** to continue. The system will scan the main server.

5. Select the desired computers for agent uninstallation and click **Start**.



You can easily select all computers, all offline computers or all online computers with the checkboxes on the bottom.

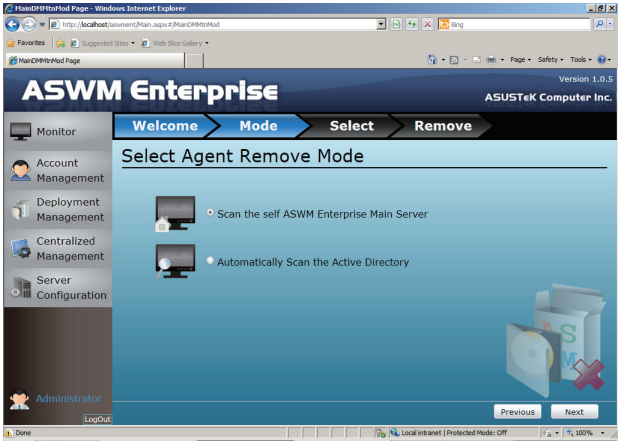
6. The server automatically removes the agents on the selected computers. When done, it shows **Success**. Click **Finish** to finish the process.



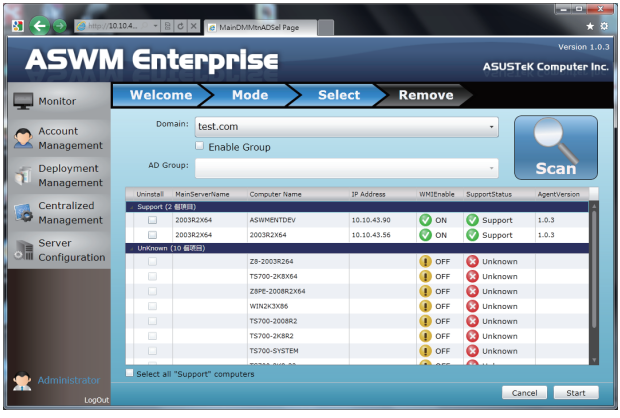
2.2.2 Automatically scanning the Active Directory

To remove the existing agents

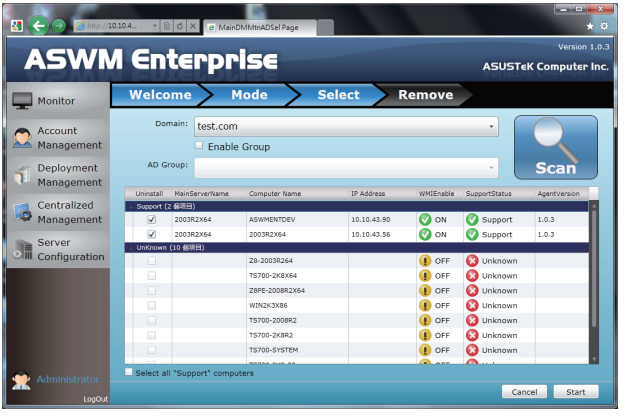
1. Repeat the step 1—3 in the previous section.
2. Click **Automatically Scan the Active Directory** and click **Next** to continue. The system will scan the Active Directory.



3. All the computers in Active Directory are shown here, grouped by Support Status.



4. Select the desired computers for agent uninstallation and click **Start**.



5. The server automatically removes the agents on the selected computers. When done, it shows **Success**. Click **Finish** to finish the process.

Chapter 3

This chapter describes the Main Server Functions, including Monitor, Account Management, Deployment Management, Centralized Management, and Server Configuration.

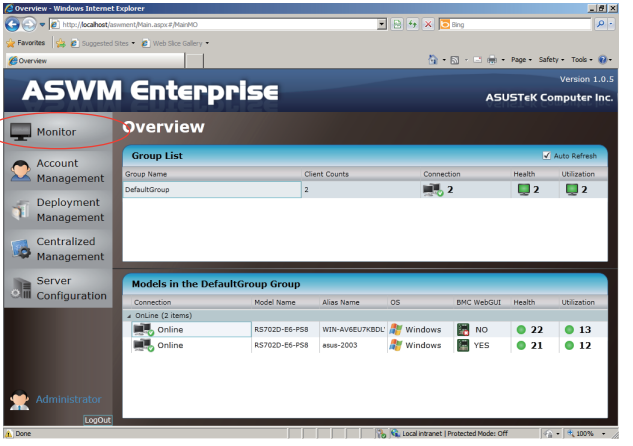
Main Server Functions

3.1 Monitor

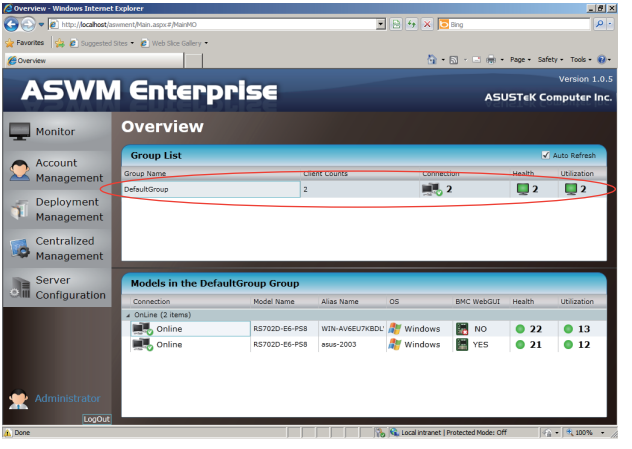
The overview screen gives you a quick overall status check for all the computers. You are also allowed to shut down, restart or start the selected computers.

To see the monitor overview

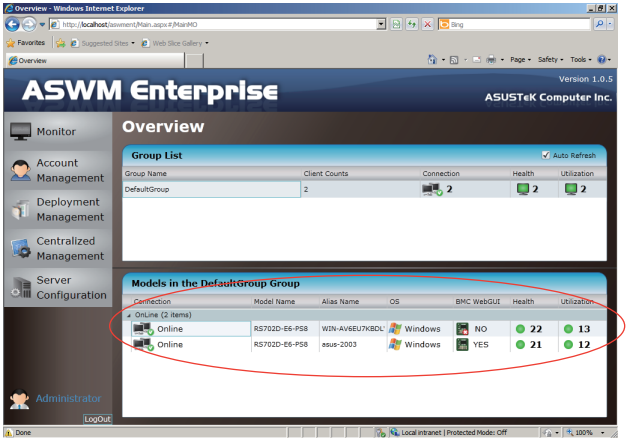
1. Click **Monitor** on the left.



2. Select a desired group from the **Group List**. The group clearly shows the information of **Client Counts**, **Connection**, **Health**, and **Utilization** status. (Red: Critical; Yellow: Warning; Green: Normal)



3. In the **Models In the XXX Group**, the general monitoring information of all computer in this group is displayed as shown, including Connection status, Model Name, Alias Name, Operating system, BMC WebGUI status, Health status.



- The crossed-out BMC card means that the BMC is not installed in that computer.
- If the status of BMC WebGUI shows **NO**, the WebGUI is inaccessible.
- When you click **BMC WebGUI**, a pop-up window appears. Ensure that your web browser does not block the pop-up window.

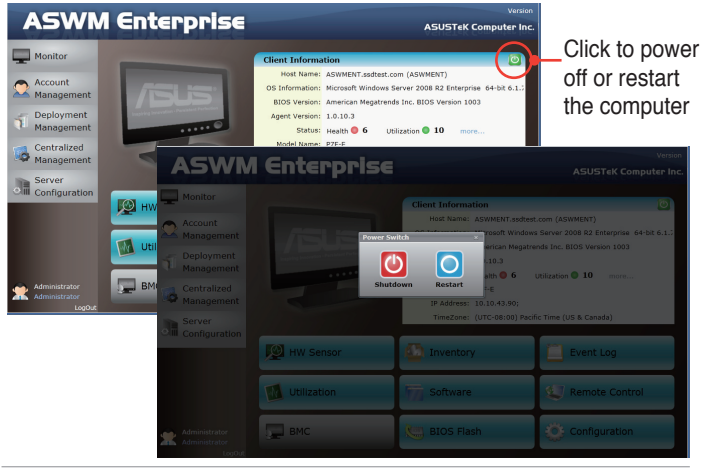
To shut down or restart the computer

1. Right-click the desired computer.

2. You can select **Restart** or **PowerOFF** if the computer appears online.

PowerON is available only when the selected computer appears **Offline** and you have installed BMC card on that computer.

You can also power off or restart the selected computer after entering the **Monitor**.



Click to power off or restart the computer

3.2 Account Management

Account Management allows you to see the current login account and edit the account.

Only limited functions, including **Monitor** and **Account Management** are available when you login as a user. Other functions will be dimmed and become unavailable.

3.2.1 Current Login Account

Click Account Management on the left to display the **Login Account**, **Account** and **Role Privilege** tab, than click **Login Account** tab to display current Login Account.

Editing the Login Account

Click **Edit Account** to edit the login account. Click **Save** when done.

The Account E-Mail shows in the Email Settings of Client Configuration.

3.2.2 Account

Click Account Management on the left to display the **Login Account**, **Account** and **Role Privilege** tab, than click **Account** tab to display Account Role and Account Role members of the account information.

You can click **Add Account** to add a new accont. In **Edit Acconunt** / **Add Account** of the **Account Role** section, you can specify the **Account Role** for this Account. The Administrator also can check / uncheck Account to enable or disable the Account.

3.2.3 Role privilege

Click **Role Privilege** tab to display every role owns right of every model's function (a check mark indicate enable).

Administrator also can Add or modify the Role's right. (check / unckeck the role's right of there's function).

Click “**Add New Role”** shows as below.

3.3 Deployment Management

You can deploy ASWM Enterprise agents and remove agents through AD or manually. Refer to Chapter 2 for details.

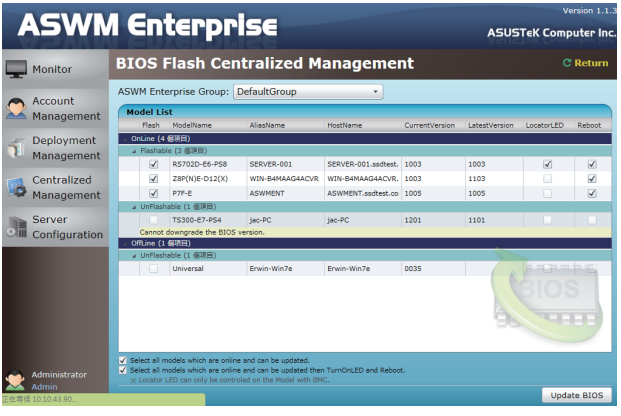
3.4 Centralized Management

3.4.1 BIOS Flash Centralized Management

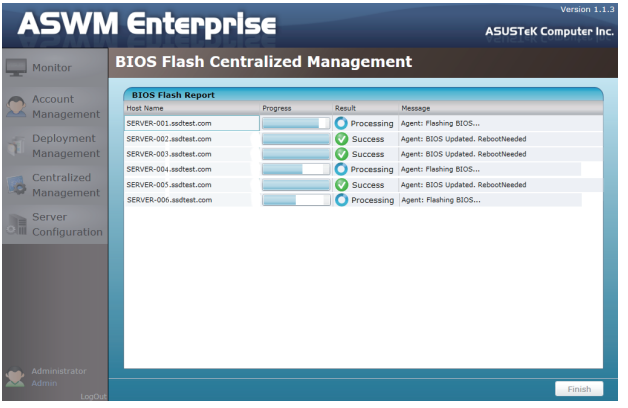
1. Click **Centralized Management** on the left and select **BIOS Flash Centralized Management**.

2. You can simultaneously on multiple Models for BIOS Flash. System will detect the latest BIOS files on ASUS official website and show the latest BIOS version in **LaestVersion** field.

   User can use check box to:
   Select all models which are online and can be update.
   Select all models which are online and can be update then TurnOnLED (LocatorLED) light and Reboot.(Locator LED can only be controled on the Model with BMC)



2. Click **Upadte BIOS** button to start BIOS Flash and show all models progress.

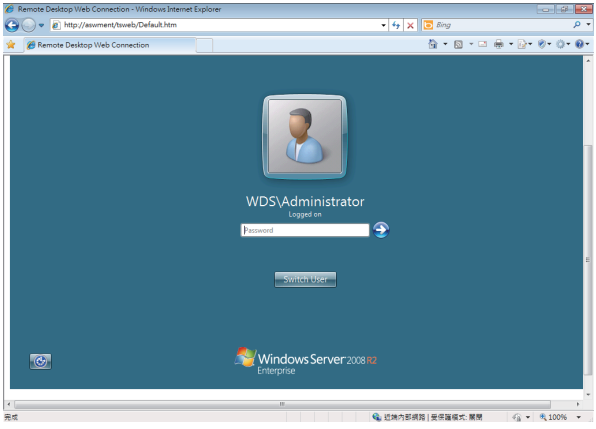


3.4.2 Remote Control Centralized Management

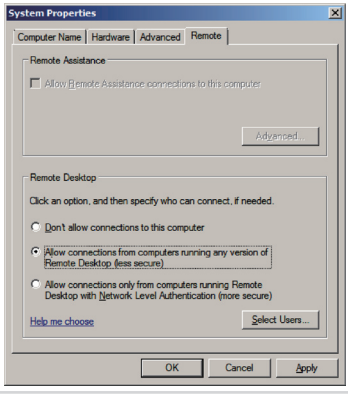
1. Click **Centralized Management** on the left and select **Remote Control Centralized Management**.

3. This show will follow the group under each Group based information.

3. Click **Connect** button can remote control the model.



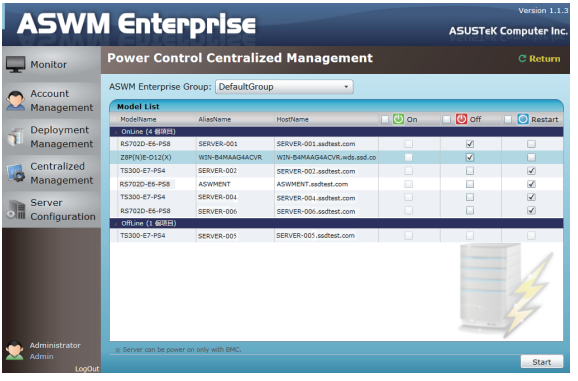
You have to enable the Remote Desktop on your client computer before using the remote control function.



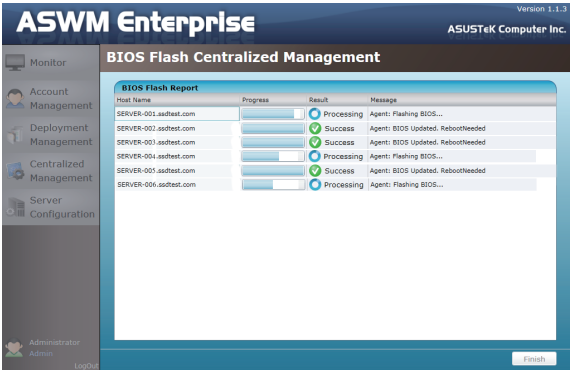
3.4.3 Power Control Centralized Management

1. Click **Centralized Management** on the left and select **Power Control Centralized Management**.

2. You can simultaneously on multiple Models for **Power Control**.



3. Click **Start** button to start Power Control and show all models progress.



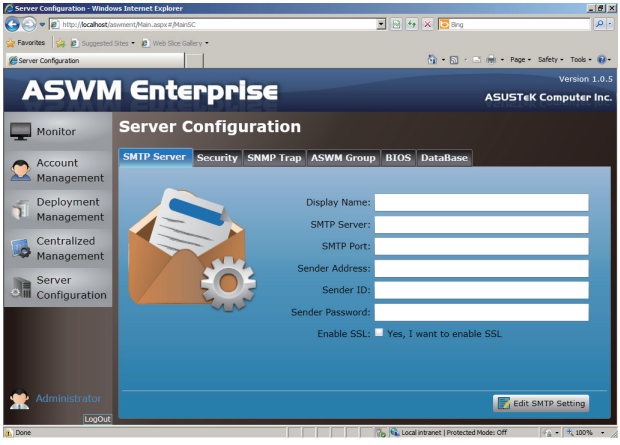
3.5 Server Configuration

You are allowed to do general server configurations, including SMTP server, SNMP Trap, security, etc..

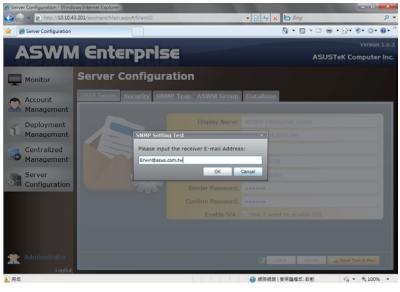
3.5.1 SMTP Server

To set up the SMTP server

1. Setting up the correct SMTP server information if you would like to send the notification through Email. Click **Edit SMTP Setting** to fill in the fields.



2. Click **Send Test E-Mail** and enter a receiver's E-Mail to see if the SMTP server has been successfully set up. If so, click **Save** to save the configuration.



3.5.2 Security

You can set the Access Control List, which permits or denies the specific IPs' access.

The ACL settings is based on Cisco router settings. Fill in the blank fields and click **Add New ACL Rule** to add a IP on the control list. Use the **ACL Rule Test** on the bottom to test if it has been added successfully.

Examples of ACL settings

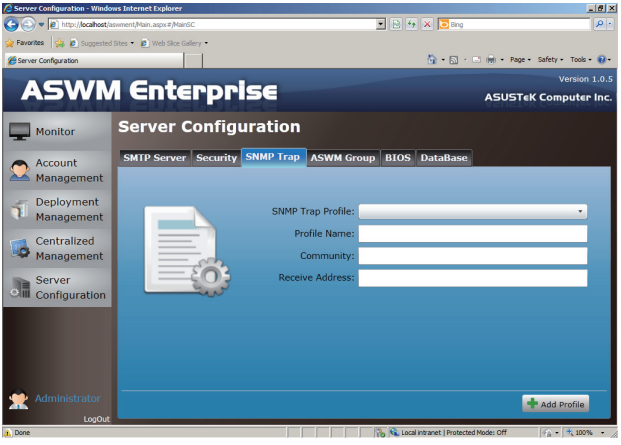
1. If you want to permit Class C IP addresses 192.168.0.0—192.168.0.255
   Rules:
   Permit: IP 192.168.0.0 Wildcard Mask: 0.0.0.255
   Deny: IP 0.0.0.0 Wildcard Mask: 255.255.255.255

2. If you want to permit IP 192.168.0.200 only
   Rules:
   Permit: IP 192.168.0.200 Wildcard Mask: 0.0.0.0
   Deny: IP 0.0.0.0 Wildcard Mask: 255.255.255.255

3. If you want to deny IP 192.168.0.200 only
   Rules:
   Deny: IP 192.168.0.200 Wildcard Mask: 0.0.0.0
   Permit: IP 0.0.0.0 Wildcard Mask: 255.255.255.255

3.5.3 SNMP Trap

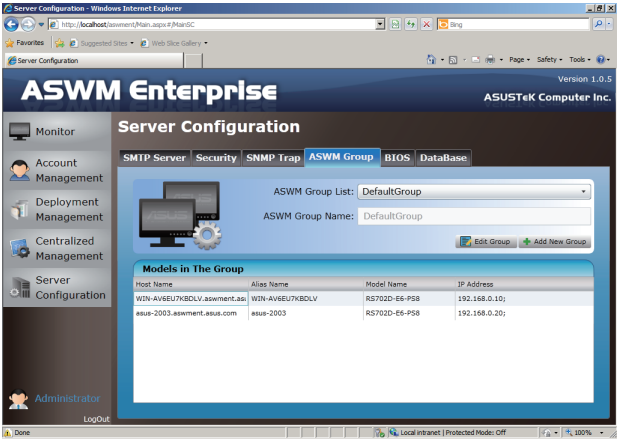
Fill in the blank fields and click **Add Profile** to add the SNMP Trap profile. If you would like to edit the profile, click **Edit Profile**.



The SNMP profile information is used for sending notificatiton.

3.5.4 ASWM Group

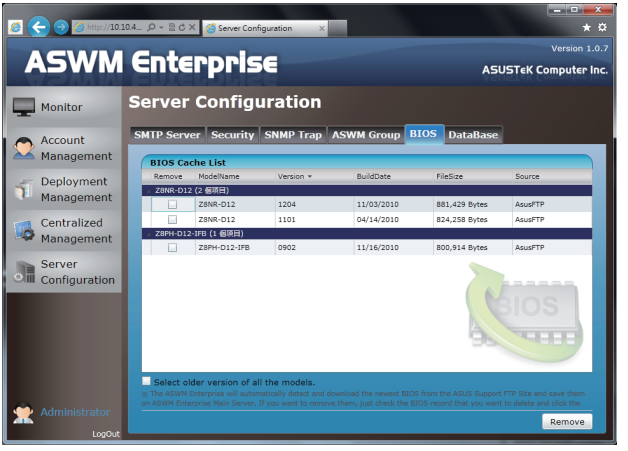
You can add new ASWM Groups or edit the existing groups. The information of computers in each group is displayed when the group is selected.



You cannot delete the **DefaultGroup** and all the clients will be regrouped under **DefaultGroup** when their groups are deleted.

3.5.5 BIOS

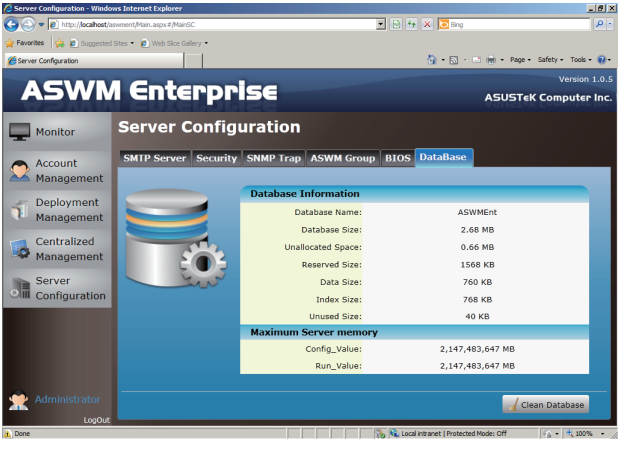
The BIOS screen displays all the BIOS cache information. The ASWM Enterprise automatically detect and download the newest BIOS from the ASUS support site.



It is more convenient to click the check box on the bottom to select the older version BIOS if you want to remove the older ones.

3.5.6 DataBase

You can clean the database to release some space if needed. Clicking Clean Database only clears the cache, and no important data will be deleted.



Chapter 4

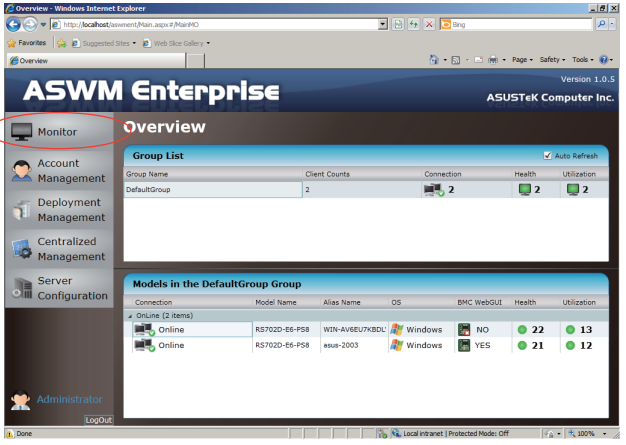
This chapter describes system status and information of the client.

Client Monitor Information

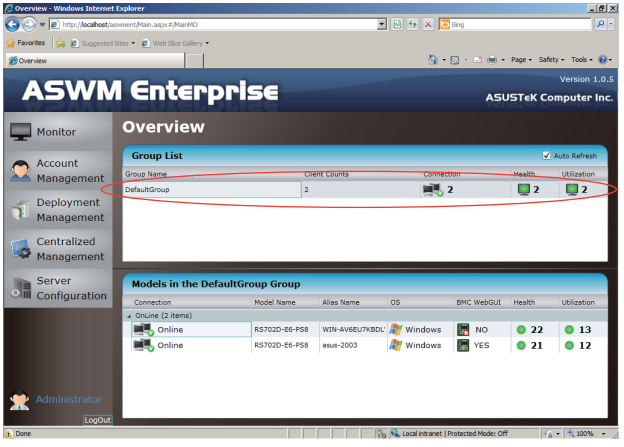
4.1 Monitor Overview

You can have detailed monitoring information of each client in realtime.

1. Click **Monitor** on the left.



2. Select a desired group from the **Group List**.



3. Select a desired client for monitoring in the **Group**

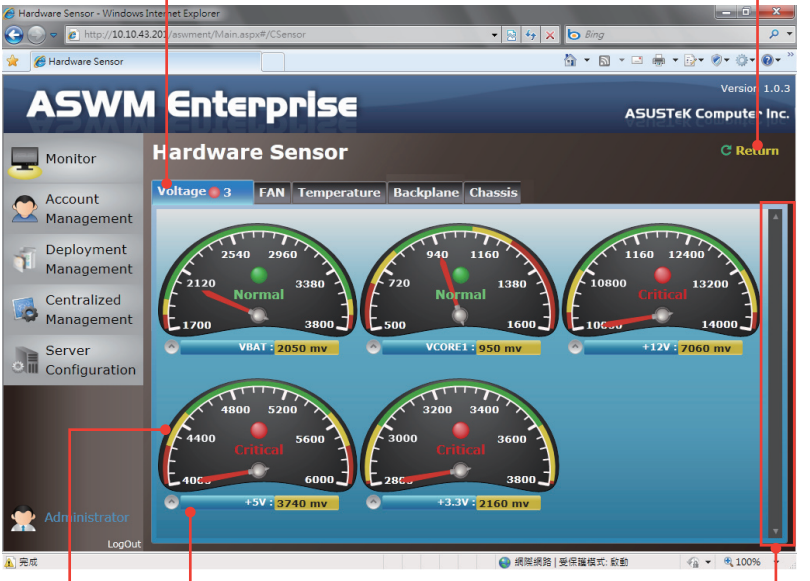
4. The Client Information of the selected computer is displayed as shown.

4.2 HW Sensor

Hardware sensors are responsible for voltage, fans, temperature and backplanes monitoring. You can have a realtime notification of each component with colored signals or customize your warning threshold.

Return the previous Client Information screen

Click to switch sensor tabs. The colored signal and the number indicate the health status of the sensors (critical or warning).



Click to set the threshold

Scroll down for more sensors

Display the realtime value. The colored border shows the default or your customized threshold for sending critical, warning or normal notifications.

4.2.1 Setting thresholds

Click the dashboard to customized your own threshold value, including **High Critical**, **High Warning**, **Low Warning**, and **Low Critical**.

To set the threshold

1. Click a desired dashboard for customizing.
2. Move the slider to adjust the threshold value.
3. Click **OK** to save the configuration.

The value of **High Warning** must be lower than **High Critical** and the **Low Warning** must be higher than **Low Critical**.

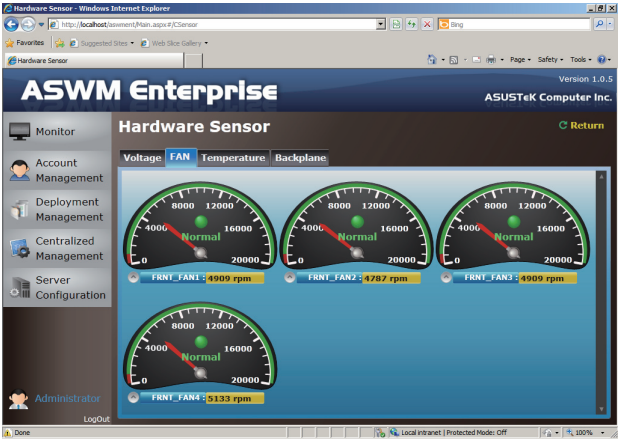
4.2.1 Hardware sensor tabs

Voltage

Scroll down for more voltage dashboards or click **Return** to the previous Client Information screen.

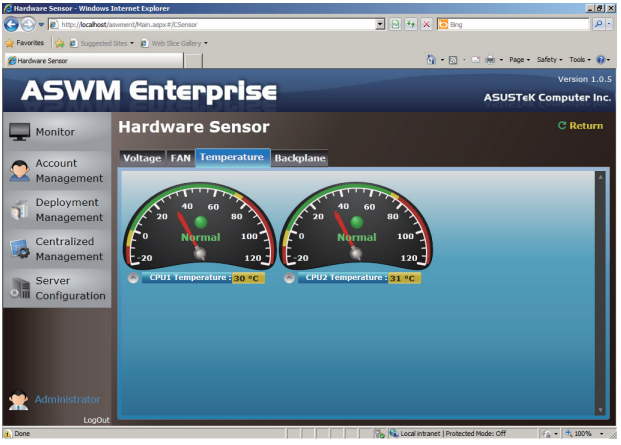
Fan

This screen displays the fan status. Click **Return** to the previous Client Information screen.



Temperature

This screen displays the device temperature. Click **Return** to the previous Client Information screen.



Backplane

This screen displays the blackplane status, including **Drive Presence**, **Drive Not Exist**, **Fault**, and **Rebuild**. Click **Return** to the previous Client Information screen.

This tab is only available when your system is equipped with backplanes.

Chassis

This screen displays the chassis status. If the chassis of the client computer is opened, the ChassisIntrusion Lock icon will appear unlocked. Click **Return** to the previous Client Information screen.

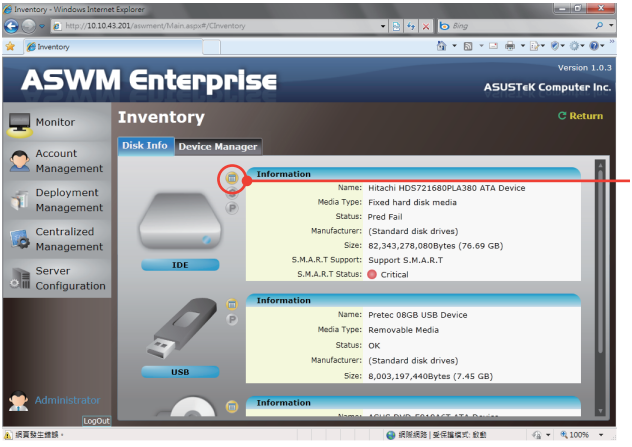
4.3 Inventory

Inventory shows the general disk info of your installed Hard disk drive, optical disk drive and the connected external disk drive.

4.3.1 Disk Info

Disk Information

The disk information screen includes **Name**, **Media Type**, **Status**, **Manufacturer**, **Size**, **S.M.A.R.T Support** and **S.M.A.R.T Status**.



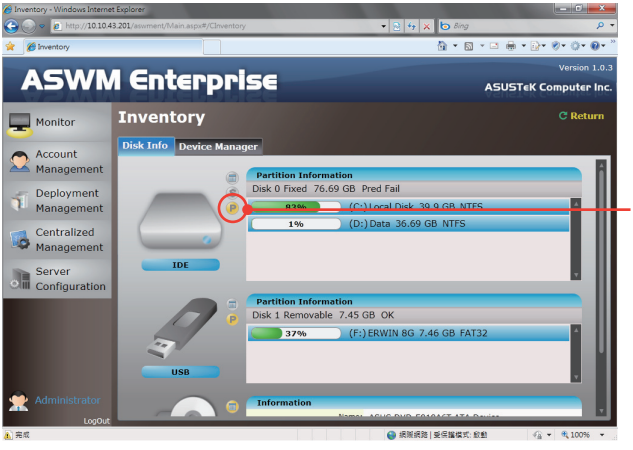
Click to show disk information

Scroll down for more items.

S.M.A.R.T Information

Click to show SMART information

Partition Information



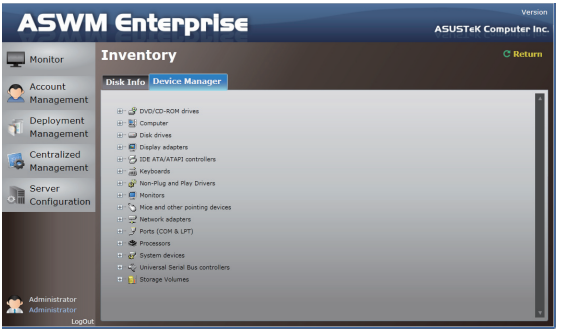
Click to show Partition information

4.3.2 Device Manager

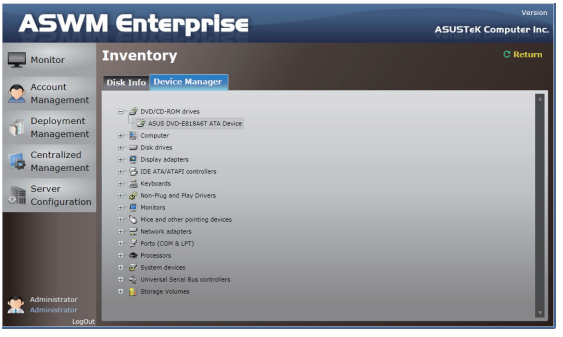
The Device Manager display all the devices installed on the client PC.

To check the device property

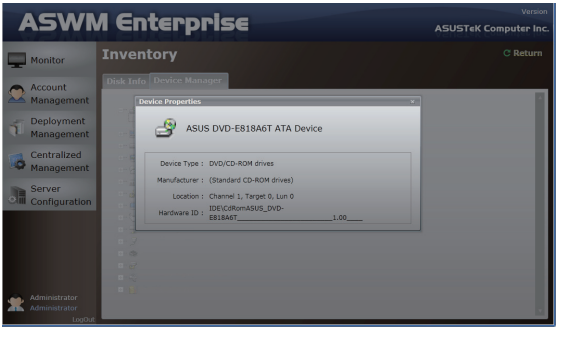
1. Click **Device Manager** tab on the top.



2. Click the desired category to expand and show the devices.

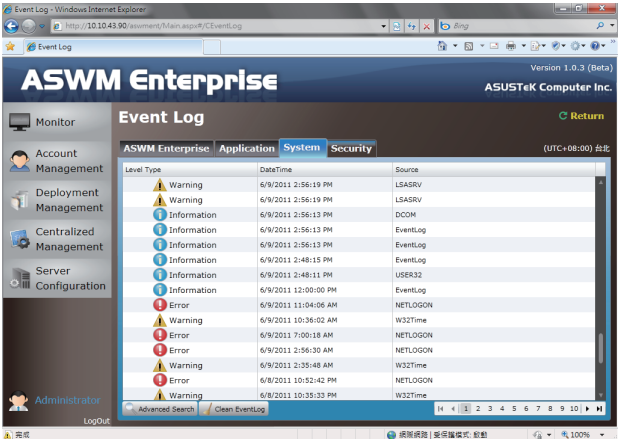


3. Click the device to show the device property.

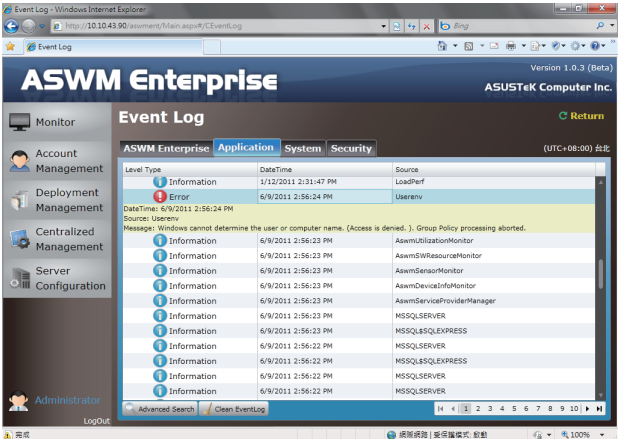


4.4 Event Log

ASWM Enterprise automatically create and record all the significant events happening on your system in the event logs. Click the tabs (**ASWM Enterprise**, **Application**, **System**, and **Security**) on the top to browse different categories. The level types are **Information**, **Warning** and **Error**.

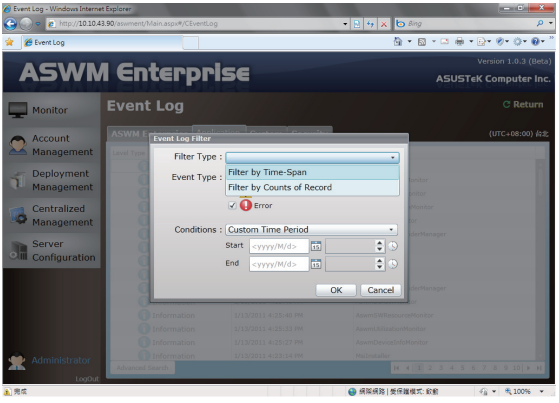


Click a desired log to see the detailed information.



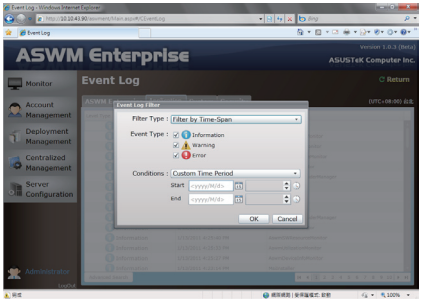
Advanced Search

Click **Advanced Search** to use the **Event Log Filter** to locate your desired log more quickly.



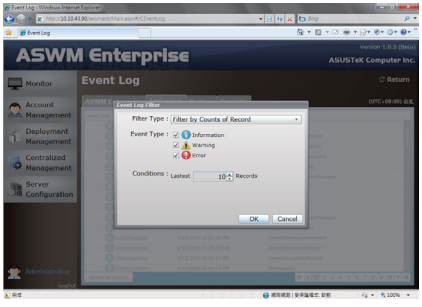
Filtering by Time Span

If you select **Filter by Time Span**, you can decide and search your desired time period for the logs.



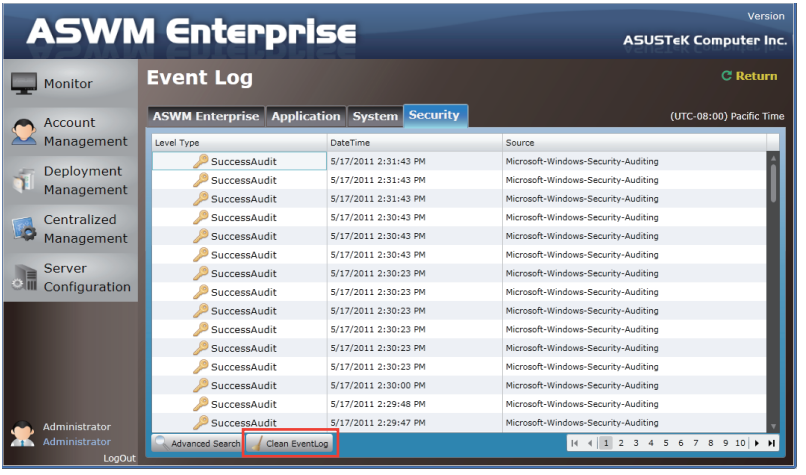
Filtering by Counts of Record

If you select **Filter by Counts of Record**, you can decide the number of the logs you would like to see. Click the arrow buttons to increase or decrease the number, or you can enter a desired number directly.



Clean EventLog

Click **Clean EventLog** to clear all the event logs stored in your client PCs.

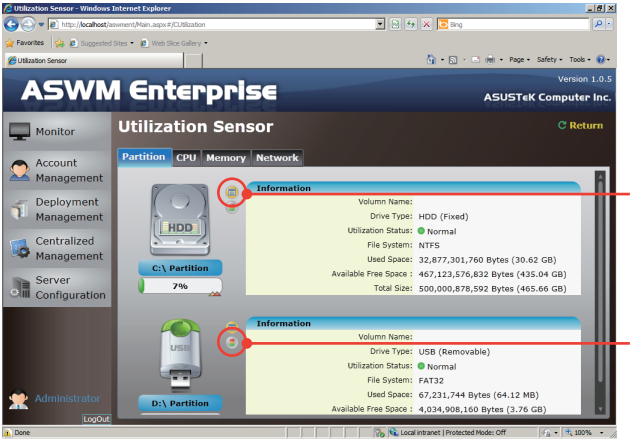


4.5 Utilization

Utilization Sensor shows the utilization status of disk drives, CPU, Memory and Network. You can customized the threshold value of each sensor for sending notifications.

4.5.1 Partition

The Partition screen shows the information of your installed hard disk drives and the connected external storage devices. Move the slider under each disk drive to set the warning threshold.

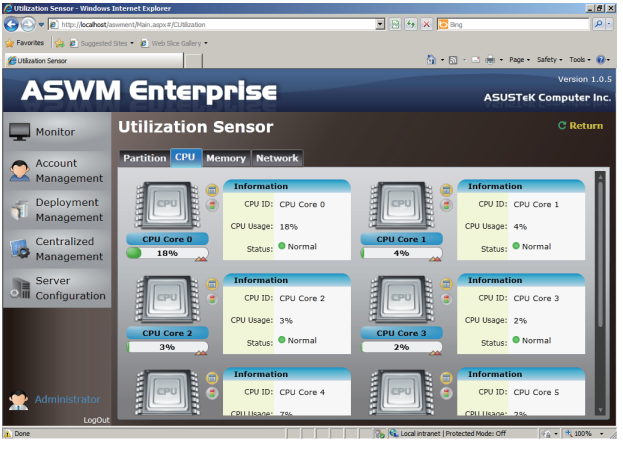


Click to show general information

Click to set the threshold value

4.5.2 CPU

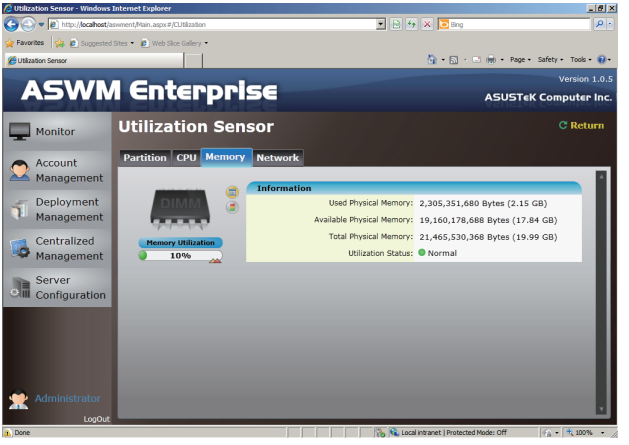
This screen shows the CPU usage of each installed CPU.



The number of the CPU here is the logical number of the CPU, not the number of the installed CPU.

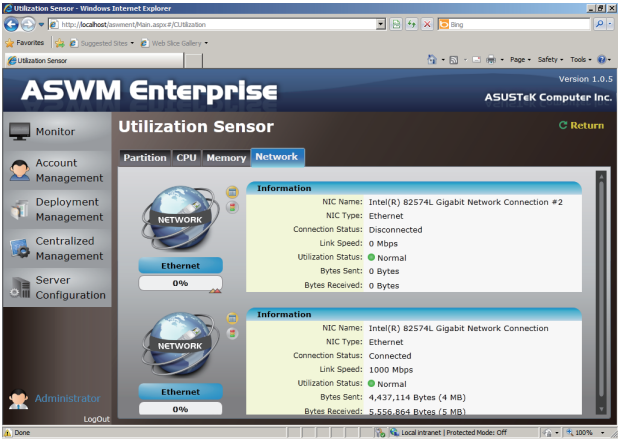
4.5.3 Memory

This screen shows the total physical memory, used memory, the available memory, and the memory utilization status.



4.5.4 Network

This screen shows the general information of the network and the network utilization status.

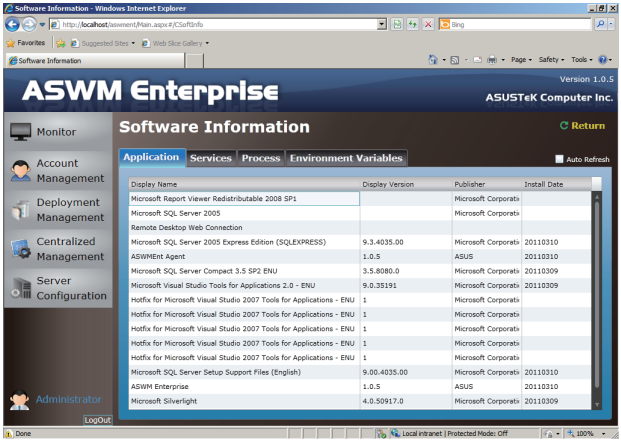


4.6 Software

Click **Auto Refresh** to refresh the monitoring screen automatically.

4.6.1 Application

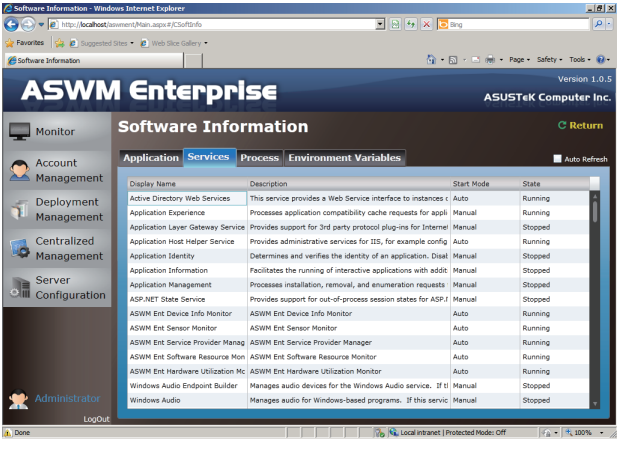
Displays all the installed applications on this client and their general information.



4.6.2 Service

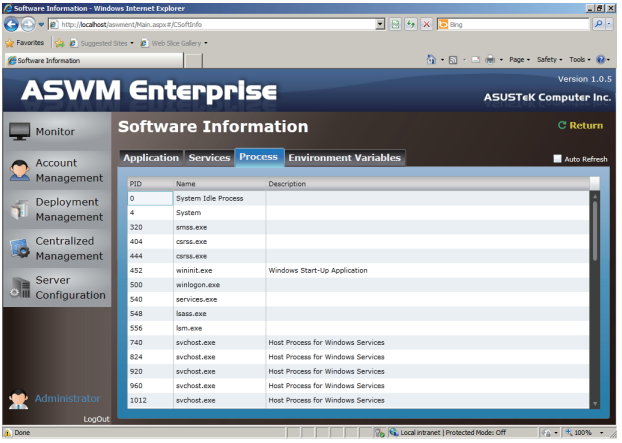
Displays the status of each installed applications. Right-click a desired service and you can start, restart or stop the selected service.

If the **Start Mode** of the selected service shows **Disabled**, you cannot control that service.



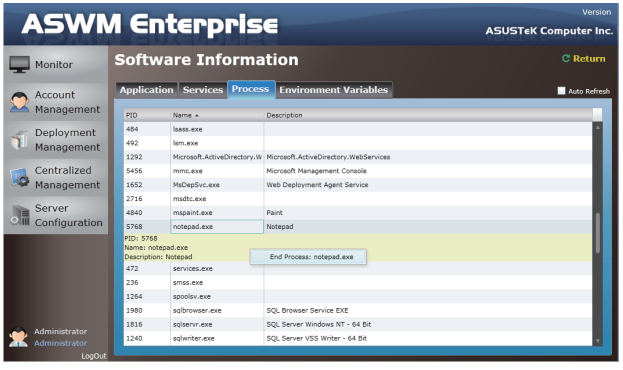
4.6.3 Process

Displays the process of the running applications.



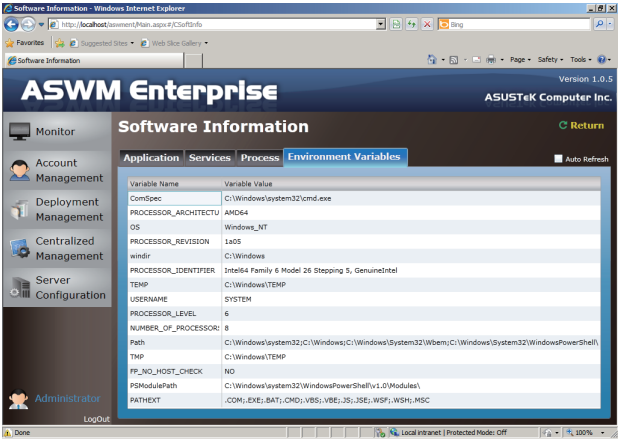
To end the process of the running application

1. Right-click the application that you would like to end the process.
2. Select **End Process:XXXXX** to stop the application running.



4.6.4 Environment Variables

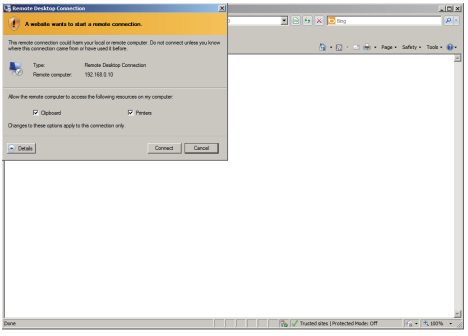
Displays the environment variables.



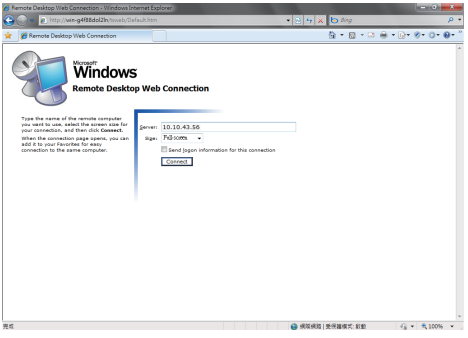
4.7 Remote Control

Remote Control allows you to open the Remote Desktop and control the client remotely.

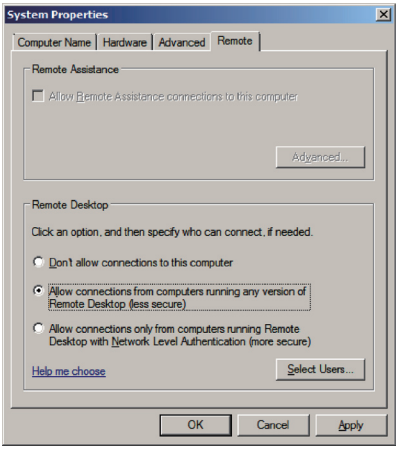
1. Click **Connect** to allow the **Remote Desktop Connection**.



2. Cofirm the name of the remote computer and click **Connect** to start the connection.



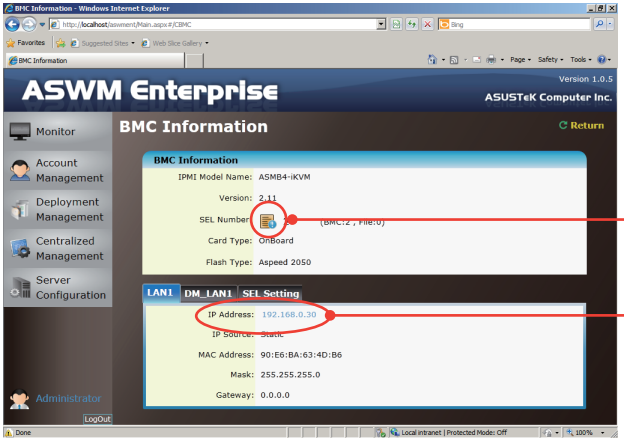
You have to enable the Remote Desktop on your client computer before using the remote control function.



4.8 BMC

BMC Information displays the general information of the installed BMC card.

This button is available only when you BMC card to the client computer.



Click to check or delete the SEL information

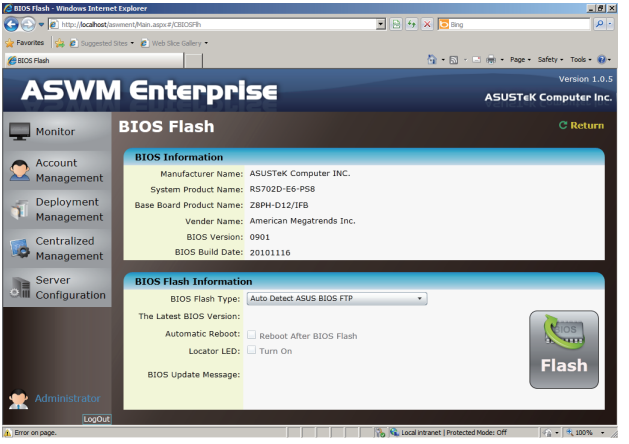
Click to connect BMC WebGUI

- Only when there is an IP Address, you can click to access the BMC WebGUI.
- Ensure that your web browser does not block the pop-up window.

4.9 BIOS Flash

BIOS Flash screen displays your current BIOS information and you can configure the settings of BIOS Flash.

Click **BIOS Flash Type** and select **Auto Detect ASUS BIOS FTP** to flash the BIOS from the FTP or select **Manual Upload BIOS ROM File** to manually upload the BIOS ROM.



- Click **Reboot After BIOS Flash** if you would like to reboot your system after updating the BIOS.
- If you have installed BMC card to your system, you can click to turn on the **Locator LED** if needed.

4.10 Configuration

4.10.1 Information

Click **Edit Information** to relocate this client computer to another group or change its **Alias Name**.

Click **Uninstall Client** if you want to remove the ASWM Enterprise Agent from this computer.

Add or delete groups in **Server Configuration** > **ASWM Group**.

4.10.2 Network

You can ueing remote control the network to Enable / Cancl the DHCP, IP Address, Subnet Mask, Default Gateway and DNS setting.

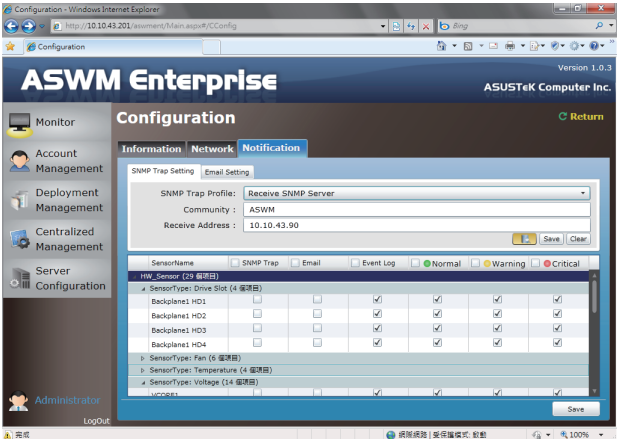
When you are check the **Enable connection failure recovery**, then if the network configuration test fail, it will automatically recovery to the orginal setting.

4.10.3 Notification

You can set up the notification types, including sending SNMP Traps and Emails, or you can just keep the event logs.

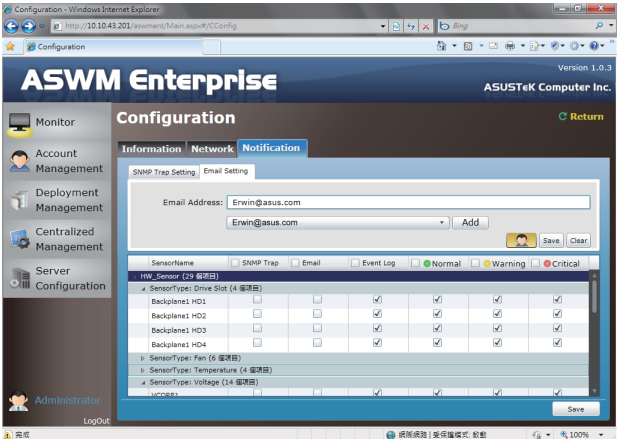
SNMP Trap Setting

You can manually enter the **Community** and **Receive Address** of SNMP Trap or click the amplifier button to select the built SNMP Trap profile.



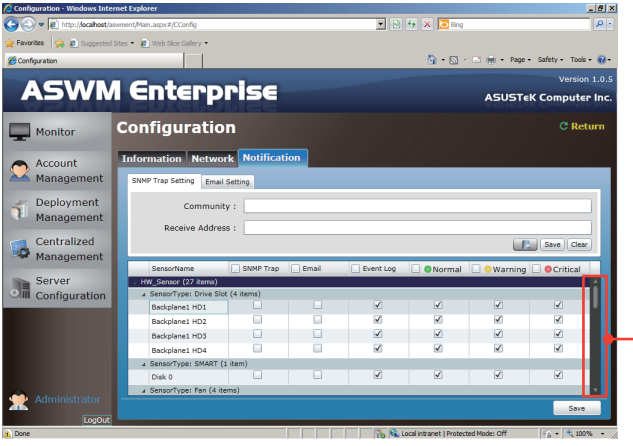
Email Setting

You can select the E-mail address from your contacts or manually enter the E-mail address. Use semicolons if you have more than one receivers.



Customizing notifications for each sensor

You can the select the notification methods of each sensor, Hardware and Utilization.



Scroll down for more sensors

Appendix

This appendix includes a glossary of terms used in this document.

Reference information

A.1 Glossary

Community

Users can define their own SNMP trap community for a clearer categorization and convenient management of SNMP traps.

Backplane

A circuit board with sockets in which additional devices can be plugged.

Event Notifier

This sends a message to administrators/users When sensors detect changes in the system.

IIS

Internet Information Server. A web server built into Windows NT and later.

IPMI

Intelligent Platform Management Interface. It is a type of firmware which continues to monitor the system's hardware even after a crash or the system has shut down.

Service

A Windows program that runs in the background to perform a certain function when required such as programs for handling print jobs, e-mail or network connectivity.

SMTP

Simple Mail Transfer Protocol. The protocol used for transferring e-mail over a network.

SNMP

Simple Network Management Protocol. A TCP/IP protocol that transmits hardware or software status messages over the Internet.

ASUS contact information

ASUSTeK COMPUTER INC.

Address	15 Li-Te Road, Peitou, Taipei, Taiwan 11259
Telephone	+886-2-2894-3447
Fax	+886-2-2890-7798
E-mail	info@asus.com.tw
Web site	http://www.asus.com.tw

Technical Support

Telephone	+86-21-38429911
Fax	+86-21-58668722 ext: 9101
Online Support	http://support.asus.com/techserv/techserv.aspx

ASUSTeK COMPUTER INC. (Taiwan)

Address	15 Li-Te Road, Peitou, Taipei, Taiwan 11259
Telephone	+886-2-2894-3447
Fax	+886-2-2890-7798
E-mail	info@asus.com.tw
Web site	http://www.asus.com.tw

Technical Support

Telephone	+886-2-2894-3447 (0800-093-456)
Online Support	http://support.asus.com/techserv/techserv.aspx

ASUSTeK COMPUTER INC. (China)

Address	No.508, Chundong Road, Xinzhuang Industrial Zone, Minhang District, Shanghai, China.
Telephone	+86-21-5442-1616
Fax	+86-21-5442-0099
Web site	http://www.asus.com.cn

Technical Support

Telephone	+86-21-3407-4610 (800-820-6655)
Online Support	http://support.asus.com/techserv/techserv.aspx

ASUS contact information

ASUS COMPUTER INTERNATIONAL (America)

Address	800 Corporate Way, Fremont, CA 94539, USA
Fax	+1-510-608-4555
Web site	http://usa.asus.com

Technical Support

Support fax	+1-812-284-0883
General support	+1-812-282-2787
Online support	http://support.asus.com/techserv/techserv.aspx

ASUS COMPUTER GmbH (Germany and Austria)

Address	Harkort Str. 21-23, 40880 Ratingen, Germany
Fax	+49-2102-959911
Web site	http://www.asus.de
Online contact	http://www.asus.de/sales

Technical Support

Telephone	+49-1805-010923
Support Fax	+49-2102-959911
Online support	http://support.asus.com/techserv/techserv.aspx