

# **IntraSpection™ Personality Modules**

**AsantéFAST™ 100 Hub  
AsantéFAST 100 TX Managed Hub**

**User's Manual**

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# 1

## Introduction

### IntraSpecion Personality Modules

A Personality Module is a “plug-in” to the IntraSpecion system that allows for expanded management of an SNMP device by specifically addressing the device’s proprietary information (the “Private MIB”).

Management capabilities are accessed via the Personality Module’s Device Page. See Figure 1-1 or Figure 1-2.

This manual provides information for two Personality Modules:

- ❑ The AsantéFAST 100 Hub Personality Module
- ❑ The AsantéFAST 100 TX Managed Hub Personality Module

### AsantéFAST 100 Hub Personality Module

The AsantéFAST 100 Hub Personality Module allows for expanded management of an AsantéFAST 100 Hub — or stack of 100 Hubs — with an attached AsantéFAST 100 Management Module. See Figure 1-1.

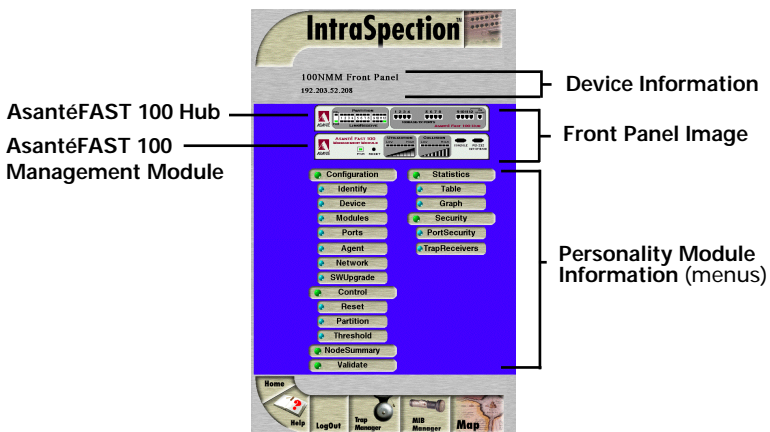


Figure 1-1 AsantéFAST 100 Hub Device Page

## AsantéFAST 100 TX Managed Hub Personality Module

The AsantéFAST 100 TX Managed Hub Personality Module allows for expanded management of an AsantéFAST 100TX Managed Hub or a stack of 100 Hubs with an attached Managed Hub. See Figure 1-2.

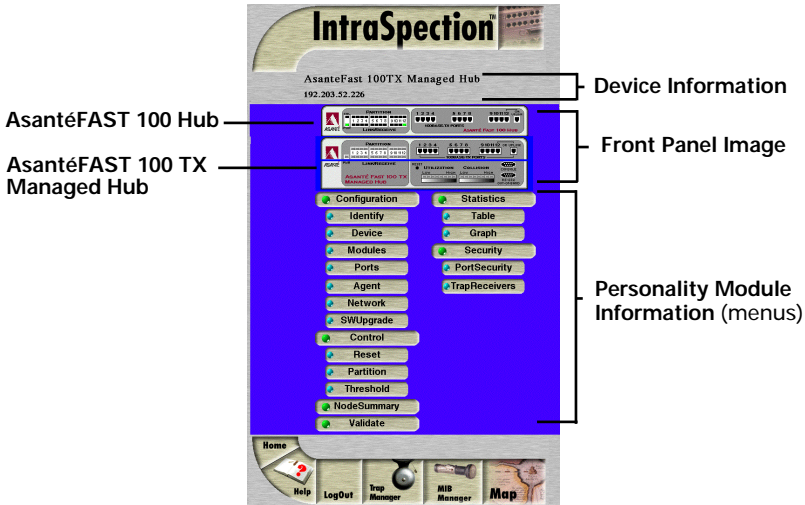


Figure 1-2 AsantéFAST 100 TX Managed Hub Device Page

## Management Options

Both the AsantéFAST 100 Hub and the AsantéFAST 100 TX Managed Hub Personality Modules support the following management options:

- Device identification
- General device information
- Module information
- Port information
- SNMP agent information
- Network access configuration
- Software upgrades
- Device and group resets
- Group and port partitioning
- Alarm thresholds
- Node summary information
- Table statistics at the device/group/port levels
- Graph statistics at the device/group/port levels
- Port security
- Trap receiver management

See Chapter 4 “Menus” for a complete description of each management option.

## System Requirements

### Server

- IntraSpecion version 1.01
- PC with 80486 or faster microprocessor
- 48MB RAM
- 100MB free disk space
- Windows NT™ 3.51 or higher or Windows NT 4.0 (recommended)
- Web server that supports Common Gateway Interface (CGI) 1.1 (such as Netscape FastTrack Server™, Microsoft IIS, NCSA HTTP, etc.)
- Any database management system that supports ODBC, such as Microsoft Access™, Oracle™, or Microsoft SQL Server

### Client

- Any Windows™, Windows NT, Macintosh™ or UNIX® workstation
- Any World Wide Web browser with Java™ and Java Script support such as Netscape Navigator® (version 3.0 required, 3.01 recommended) or Microsoft Internet Explorer™

## Installation

The AsantéFAST 100 Hub and AsantéFAST 100 TX Managed Hub are two separate Personality Modules; however, both are installed simultaneously from the same file.

See Chapter 2, "Installation" for instructions on installing the Personality Modules.

### About This Manual

This manual is divided into the following chapters:

- ❑ Chapter 1, “Introduction,” describes IntraSpection Personality Modules.
- ❑ Chapter 2, “Installation” explains how to install the AsantéFAST 100 and AsantéFAST 100 TX Managed Hub Personality Modules.
- ❑ Chapter 3, “Management,” explains how to access and use a Personality Module’s Device Page and how to perform some basic management functions.
- ❑ Chapter 4, “Menus,” describes each management menu and its contents.



# 2

## Installation

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### Installing a Personality Module

This chapter explains how to install the AsantéFAST 100 Hub and AsantéFAST 100 TX Managed Hub Personality Modules.

Both Personality Modules are contained within the same installation file. When you install the file, you install both Personality Modules.

▲ **Important:** Before installing the Personality Modules, make sure that IntraSpecation (websuite.exe) is NOT running on the computer.

- 1 Insert the Personality Module CD into the computer where the IntraSpecation Application Server is installed.
- 2 Open the CD to display its contents.
- 3 Double-click the **100NMM.exe** file.
- 4 Click **Yes** at the IntraSpecation Personality Module Installation Confirmation dialog box.  
The IntraSpecation Personality Module information window appears.
- 5 Click **Finish** to continue.  
The Personality Module files are decompressed.  
The IntraSpecation Personality Module Welcome dialog box appears.
- 6 Click **Next**.  
The Software License Agreement window appears.  
Review the agreement carefully.

- 7 Click **Yes** to accept the agreement and continue with the installation. Click **No** to exit the installation.  
The IntraSpecation Personality Module Read Me window appears. Review the information carefully.
- 8 Click **Next** to continue.  
The decompressed Personality Module files are installed onto your computer.  
The “Decompression of the Source is Now Complete” dialog box appears.
- 9 Click **OK** to continue with the installation.  
The “Select Module to Install” window appears, displaying the 100NMM.ipm file. See Figure 2-1.



Figure 2-1 Select Module to Install window

- 10 Click once on the **100NMM.ipm** file.
- 11 Click **Open**.  
The “Enter Product Serial Number” window appears.
- 12 Enter the serial number that came with your copy of the Personality Module.  
The serial number is located on the inside cover of this User’s Manual.  
**▲ Important:** The serial number is case-sensitive; enter it exactly as shown.
- 13 Click **OK**.

The “IntraSpecation Module Installation” window appears.

▲ **Important:** This window should be pointing to the directory that contains the IntraSpecation (websitesuite.exe) program. If it is not, click **Browse** and locate that directory.

14 Click **OK**.

△ **Note:** A “Select Database” window may appear. If it does, select **vendor.mdb**, then click **OK**.

△ **Note:** A “Updating IntraSpecation System Files” window may appear, if it does, click **OK**.

The installer program installs both Personality Modules into the IntraSpecation Application Server.

Installation is complete when the “Installation Completed Successfully” dialog box appears.

15 Start the IntraSpecation Application Server, following the guidelines below:

- Windows NT 3.51 users: double-click the **IntraSpecation** icon (located in the Programs group).
- Windows NT 4.0 users: open the **Start** menu, select **Programs**, then **IntraSpecation**.

For information on accessing the Personality Modules’ Device Pages and performing some basic management functions, see Chapter 3, “Management.”



# 3

## Management

---

This chapter explains how to access and use a Personality Module's Device Page. The Device Page provides access to the Personality Module's management options.

### Accessing the Device Page

To access the Device Page for an AsantéFAST 100 Hub stack, you must first create a map of the network.

- 1 Make sure the Personality Module is installed and the IntraSpection Application Server is running.
- 2 Access IntraSpection from any Java-enabled Web browser (requires logging into IntraSpection).
  - ▲ **Important:** For help on accessing and logging into IntraSpection, refer to the IntraSpection User's Manual.
- 3 After you are logged into IntraSpection, click **Auto Discovery** on the IntraSpection Main Menu.  
The AutoDiscovery Page appears.
- 4 Complete each field on the AutoDiscovery Page, following the guidelines below:
  - Type the IP subnet address of the AsantéFAST 100 Hub stack to be managed in the **Segment** field. (This is the subnet address of the stack's management module; the default setting for this field is the subnet address of the browser being used to access IntraSpection.)
  - Type the management module's community string in the **Community** field.

- Make sure the **Enterprise ID** field has a value of **all**.
- Type the lowest (beginning) IP address on your network in the **Low IP Address** field.
- Type the highest (last) IP address on your network in the **Hi IP Address** field.
- Select **New** in the **Discovery Mode** field to create a new map, or select **Append** to attach this map to the map that is stored in your system's buffer (if any).

5 Click **Apply**.

IntraSpection builds a map of your network. The map contains icons which represent each “discovered” SNMP device on the network. Figure 3-1 is an example map.

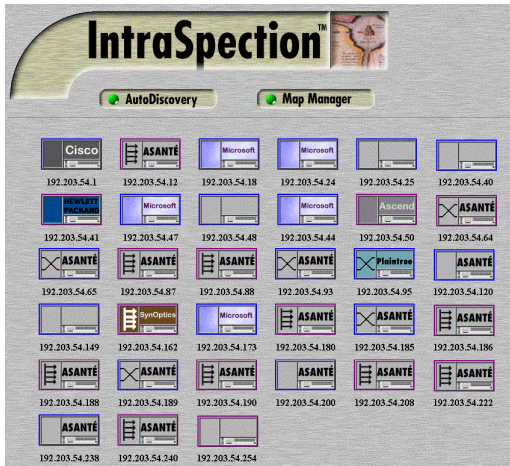


Figure 3-1 Discovered network map

6 Click once on the AsantéFAST 100 Hub or AsantéFAST 100TX Managed Hub's icon.

The Device Page for the selected hub appears (see Figure Figure 3-2 on page 3-3).

For information on the Device Page's components, see “Device Page Components” on page 3-2.

For information on performing basic management functions, see “Performing Basic Management Functions” on page 3-7.

## Device Page Components

A Personality Module's Device Page consists of several components, including device information, a front panel image, and management menu items. See Figure 3-2.

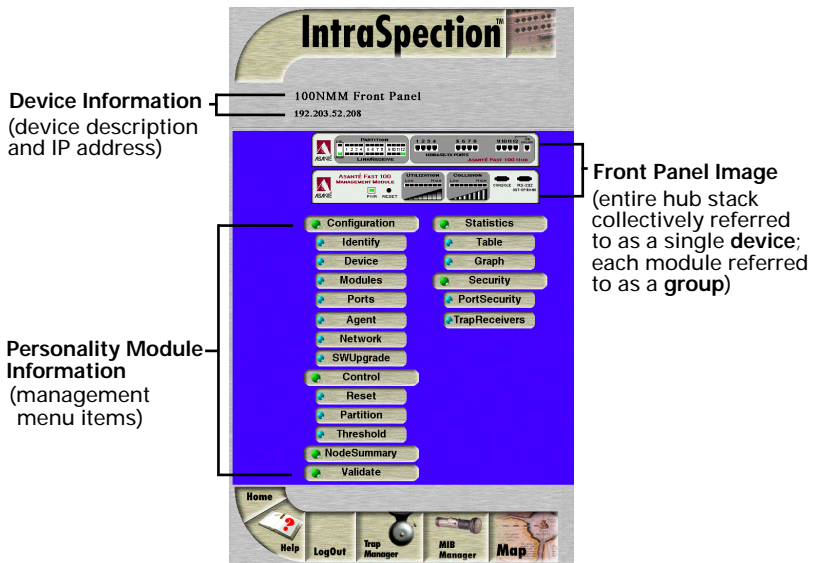


Figure 3-2 Device Page components

The Device Pages for the AsantéFAST 100 Hub and AsantéFAST 100 TX Managed Hub Personality Modules are the same except for the device information and the front panel image. See Figure 3-3.

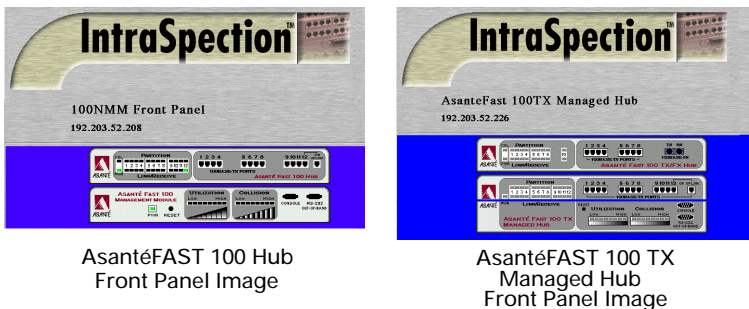
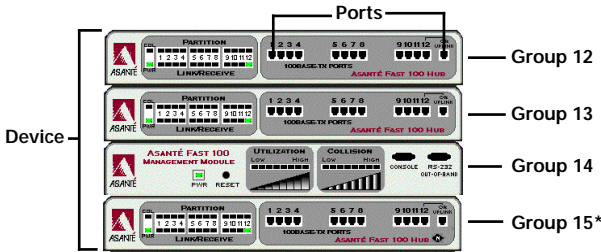


Figure 3-3 AsantéFAST 100 Hub and AsantéFAST 100 TX Managed Hub Device Pages

## Front Panel Image Components

The front panel image contains the following components (as illustrated in Figure 3-4):

- ❑ **Device** — the entire stack of hubs and the attached management module.
- ❑ **Group** — each module within the device.
- ❑ **Port** — each port on each group.
- ❑ **Status LEDs** — real-time LEDs that represent the LEDs on the modules; they display port activity.



\*The bottom module is assigned Group 15, the next module up is assigned Group 14, etc.

Figure 3-4 Front panel image components

- ▲ **Important:** Throughout this manual, the term **device** refers to the entire stack of hubs; the term **group** refers to an individual module; the term **port** refers to an individual port.

## Group Numbering

For management purposes, each group within a hub is assigned a number. The bottom module is always group 15, the next module up is group 14, etc.

- ▲ **Important:** The AsantéFAST 100 TX Managed Hub module contains two groups (the management module and the hub); therefore, it uses two group numbers (group 15 and group 14). See Figure 3-5.

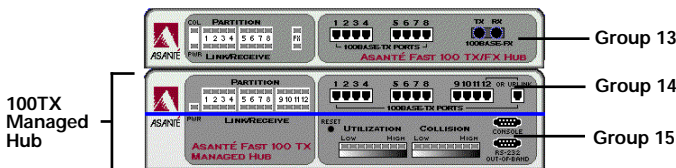


Figure 3-5 AsantéFAST 100 TX Managed Hub group numbering



## Selecting the Device for Management

The AsantéFAST 100 Hub and AsantéFAST 100 TX Managed Hub can be managed at different levels; that is, at the device, group, or port level.

For example, if a group is selected and you select the **Reset** menu, that group (module) will be reset. If the device is selected and you select **Reset**, the device (entire hub stack) will be reset.

### Selecting an Item

Target Item	Action
Device (entire hub stack)	Do not click anything on the front panel image.
Group (single module)	Click once on the group.
Port	Click once on the port.

### Deselecting an Item

Target Item	Action
Device	Click once on a group or port.
Group	Click again on the selected group.
Port	Click again on the selected port.

## Menu Components

The menus on the AsantéFAST 100 Hub and AsantéFAST 100 TX Managed Hub Device Pages provide access to the different management options supported by each Personality Module.

### Tables

Some menus contain tables with information that is configurable directly on-screen from your Web browser while others contain information that is read-only. The following tables describe how to recognize configurable and read-only information.

#### Configurable Information

Menu item	Action
Drop-down menu	Select from an available option.
White-colored fields	Type information.

#### Read-only Information

Menu item	Action
Green- or gray-colored fields	None; field cannot be edited.

### Table Columns

Table columns can be resized by placing the mouse pointer on a column title's left or right side (until a double arrow appears) and dragging the column to the left or to the right, as desired.

### Buttons

Some menus contain buttons which allow you to edit/and or update the page.

Button	Action
Apply	Applies any changes made to the device.
Refresh	Updates the page with the latest information.
Modify	Modifies a selected entry.
Add	Adds an entry into the table.

## Performing Basic Management Functions

This section explains how to perform some basic management functions with both Personality Modules. This section covers the following tasks:

### Configuration Tasks

Management Task	Page
Setting community strings	page 3-8
Configuring network access parameters	page 3-10
Configuring device identification information	page 3-11

### Management Tasks

Management Task	Page
Updating the Device Page	page 3-13
Viewing general device information	page 3-14
Viewing module information	page 3-15
Viewing SNMP agent Information	page 3-16
Enabling/disabling ports	page 3-17
Disabling a group	page 3-18
Partitioning a port	page 3-19
Resetting a group or device	page 3-20
Enabling traps	page 3-21
Managing trap receivers	page 3-22
Setting alarms	page 3-24
Viewing node summary information	page 3-27
Setting port security	page 3-28
Viewing statistics	page 3-30

## Setting Community Strings

Community strings define access rights for reading and writing SNMP data objects for a device.

The community strings (read community and write community) for an AsantéFAST 100 Hub stack's management module are manually set in the management module via the module's console port. In order to access the management module with IntraSpecation, the community strings must be set in IntraSpecation to match those set in the management module.

- ▲ **Important:** It is recommended that you set the community strings for an AsantéFAST 100 Hub stack in IntraSpecation **before** you attempt to perform any network management functions.

This section describes how to set the community strings in IntraSpecation to match those set in the management module.

To set the community strings for a management module in IntraSpecation:

- 1 On the Device Page, click the **map** icon on the IntraSpecation navigation bar (located at the bottom of the screen), as shown in Figure 3-6.



Figure 3-6 IntraSpecation navigation bar

The most recently discovered map appears.

- 2 Click the **Map Manager** button.  
The Map Manager Page appears, similar to Figure 3-7.



Figure 3-7 IntraSpection Map Manager Page

3 Click the **Edit Device** button.

The Map Configuration Table appears, similar to Figure 3-8.



Figure 3-8 Map Configuration Table

4 Enter the management module's IP address in the **IP Address** field.

5 Enter the management module's read community string in the **Read** field.

6 Enter the management module's write community string in the **Write** field.

7 Click **Apply**.

The read and write community strings for the management module are configured.

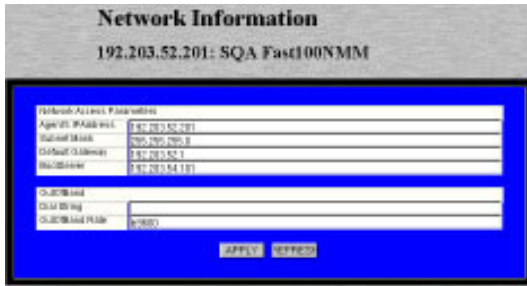
## Configuring Network Access Parameters

To configure and/or manage an AsantéFAST 100 Hub stack over the network or via out-of-band access, the hub stack's management module needs to be properly configured with network access parameters. These parameters are initially set-up in the management module via the module's console port; however, some can be modified using IntraSpec-tion.

To configure network access parameters:

- 1 Do not select any item on the Device Page's front panel image. (This selects the entire hub stack.)
- 2 Click **Network**.

The Network Information table appears, similar to Figure 3-9.



The screenshot shows a web interface titled "Network Information" with the IP address "192.203.52.201: SQA Fast100NMM". Below the title is a table with the following fields and values:

Network Access Parameters	
Apnet IP Address	192.203.52.201
Default Mask	255.255.255.0
Default Gateway	192.203.52.1
Subnet Mask	255.255.255.0

Below the table is a section for "SMB Host" with fields for "SMB Host" (empty), "SMB Host File" (empty), and "SMB Host Path" (empty). At the bottom of the form are "APPLY" and "REFRESH" buttons.

Figure 3-9 Network Information table

- 3 Click once in the field to be edited.

For a description of each field, see "Network" on page 4-9.

▲ **Important:** If you change the **IP address, subnet mask, and/or default gateway**, you must reset the stack's management module. See "Resetting a Group or Device" on page 3-20.

- 4 Type the new information.

- 5 Click **Apply**.

The network information is edited. Click **Refresh** to view updated information.

▲ **Important:** If you changed the IP address, you must rediscover the device on your network map using the AutoDiscovery feature. See "Accessing the Device Page" on page 3-1 for instructions.

## Configuring Device Identification Information

To help with hub identification, you can add certain hub details; such as, the hub stack's physical address, name, location, and contact information.

To configure device identification information:

1 Do not select any item on the Device Page's front panel image. (This selects the entire hub stack.)

2 Click **Identify**.

The Device Identification table appears, similar to Figure 3-10.

The screenshot shows a web interface titled "Device Identification" with the IP address "192.203.52.201: SQA Fast100NMM". Below the title is a table with the following fields:

MAC address	000000000000
IP address	192.203.52.201
Name	SQA Fast100NMM
Location	SQA, etc.
Contact	etc.
Up Time	24:18:00.000
Configuration	1

At the bottom of the table are two buttons: "APPLY" and "REFRESH".

Figure 3-10 Device Identification table

3 Click once in the field to be edited.

For a description of each field, see "Identify" on page 4-3.

▲ **Important:** Only those fields that are colored white or that contain drop-down menus can be edited.

4 Type the new information.

▲ **Important:** A maximum of 254 characters (including spaces) is allowed.

5 Click **Apply**.

The identification information is edited. Click **Refresh** to view updated information.

## Performing a Software Upgrade

An AsantéFAST 100 Hub stack's software can be upgraded via IntraSpec-tion.

To upgrade an AsantéFAST 100 Hub stack's software:

- 1 Click **Software**.

The Software Upgrade table appears, similar to Figure 3-11.

Upgrade Information	
SW Major Version	1
SW Minor Version	2
Boot File Name	\100sws.rtg
Server Address	192.100.250.20

Boot Method	
IntraSpec Load Mode	IntraSpec
IntraSpec Boot Info	aspecsBootInfo
IntraSpec Boot Protocol	HTTP

APPLY REFRESH

Figure 3-11 Software Upgrade table

- 2 Type the software's file name and network path in the **Boot File Name** field.
- 3 Type the server's IP address where the software file resides in the **Server Address** field.
- 4 Click **Apply**.
- 5 Reset the hub stack to initiate the downloading of the software. See "Resetting a Group or Device" on page 3-20.

Click **Refresh** to view updated information.



## Updating the Device Page

The files for both Personality Modules are stored within the IntraSpec-tion Application Server's database. Occasionally, these files should be updated from the Device Page to ensure that you are viewing the hub's latest information.

To update the Personalty Module's Device Page:

**1** Click **Validate**.

The Device Page is updated with the latest information for the Personalty Module.

After the Device Page is updated, the IntraSpec-tion Map Manager Page appears.

**2** Click **AutoDiscovery** to rediscover the network map containing the devices.

▲ **Important:** See "Accessing the Device Page" on page 3-1 for instructions on discovering devices with AutoDiscovery.

## Viewing General Device Information

General device information includes items such as the management module's version and revision numbers, chassis type, backplane type, and backplane revision number.

To view general device information:

- 1 Do not select any item on the Device Page's front panel image. (This selects the entire hub stack.)
- 2 Click **Device**.

The Device Information table appears, similar to Figure 3-12.



The screenshot shows a web interface titled "Device Information" with the IP address "192.203.52.201: SQA Fast100NMM". Below the title is a table with two sections: "Device" and "Chassis". The "Device" section contains two rows: "Device's Model" with value "D" and "Revision's Model" with value "1". The "Chassis" section contains four rows: "Chassis's Model" with value "10", "Chassis Type" with value "Fast100NMM", "Backplane Type" with value "Fast100NMM", and "Backplane Rev" with value "1". At the bottom of the table is a "Refresh" button.

Device Information	
192.203.52.201: SQA Fast100NMM	
<b>Device</b>	
Device's Model	D
Revision's Model	1
<b>Chassis</b>	
Chassis's Model	10
Chassis Type	Fast100NMM
Backplane Type	Fast100NMM
Backplane Rev	1
<input type="button" value="Refresh"/>	

Figure 3-12 Device Information table

△ **Note:** The information displayed on this page is read-only.

For a description of each field, see "Device" on page 4-4.

- 3 Click **Refresh** to view updated information.

## Viewing Module Information

Module information includes information on each group within the device.

To view module information:

- 1 Do not select any item on the Device Page's front panel image. (This selects the entire hub stack.)
- 2 Click **Modules**.

The Module Table appears, similar to Figure 3-13.

Module Table  
192.203.52.208: SQA PreRel 100NMM

GroupIndex	Number of Ports	Module Type	Description	HW Revision	State
14	12	FastHub_100T0_12UTP	Fast Acathe 100 Hub, Group 14	1	ok
15	0	ah100_100T0	Fast Acathe 100 N*P*, Group 15	1	masterN*P*

Refresh

Complete

Figure 3-13 Modules Table

△ **Note:** The information displayed on this page is read-only.

For a description of each field, see “Modules” on page 4-5.

- 3 Click **Refresh** to view updated information.

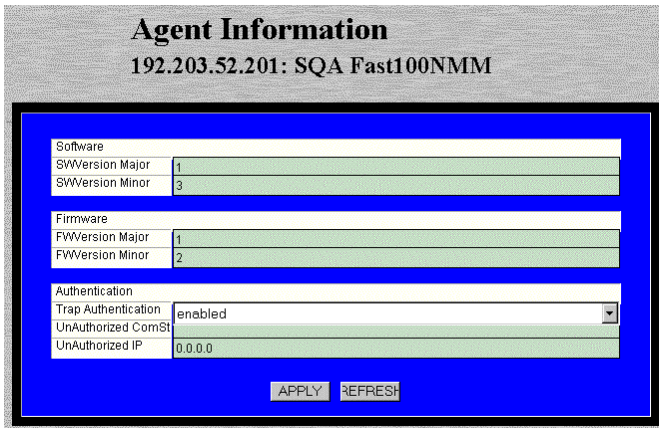
## Viewing SNMP Agent Information

This menu allows you to view information on the management module's software agent. This information includes the module's agent type and mode, software and firmware version numbers, and trap authentication status.

To view SNMP agent information:

- 1 Do not select any item on the Device Page's front panel image. (This selects the entire hub stack.)
- 2 Click **Agent**.

The Agent Information table appears, similar to Figure 3-14.



The screenshot shows a web interface titled "Agent Information" for the device "192.203.52.201: SQA Fast100NMM". The interface is divided into three sections: Software, Firmware, and Authentication. Each section contains a table of fields and their values. At the bottom, there are "APPLY" and "REFRESH" buttons.

Software	
SWVersion Major	1
SWVersion Minor	3

Firmware	
FWVersion Major	1
FWVersion Minor	2

Authentication	
Trap Authentication	enabled
UnAuthorized ComSt	
UnAuthorized IP	0.0.0.0

APPLY REFRESH

Figure 3-14 Agent Information table

For a description of each field, see "Agent" on page 4-8.

- 3 Click **Refresh** to view updated information.

△ **Note:** For information on using the Trap Authentication feature, see "Enabling Traps" on page 3-21.

## Enabling/Disabling Ports

The enabling or disabling of a port is a manual operation that can be used to isolate network devices possibly causing problems on the network or to prevent unauthorized use of a port or station.

To enable or disable a port:

### 1 Click **Ports**.

You do not need to select any particular item on the front panel image.

The Port Table appears, similar to Figure 3-15.

**Port Table**  
192.203.52.201: SQA Fast100NMM

GroupIndex	PortIndex	Port Type	Link Status	AutoPart Status	Jabber Status	Admin State
11	1	q45	linkon	notautoportioned	off	enabled
11	2	q45	linkoff	notautoportioned	off	enabled
11	3	q45	linkon	notautoportioned	off	enabled
11	4	q45	linkon	notautoportioned	off	enabled
11	5	q45	linkoff	notautoportioned	off	enabled
11	6	q45	linkon	notautoportioned	off	enabled
11	7	q45	linkon	notautoportioned	off	enabled
11	8	q45	linkon	notautoportioned	off	enabled
11	9	q45	linkoff	notautoportioned	off	enabled
11	10	q45	linkoff	notautoportioned	off	enabled
11	11	q45	linkon	notautoportioned	off	enabled
11	12	q45	linkon	notautoportioned	off	enabled
12	1	q45	linkoff	notautoportioned	off	enabled

Refresh Modify

Complete

Figure 3-15 Port Table

The Port Table displays the current status of each port on each group within the device. The table contains a scroll bar that is independent of the browser, which allows you to view information on all ports in the device.

### 2 Select the port to be enabled or disabled by clicking once on the port's row.

### 3 Click **Modify**.

The Modify Dialog box appears.

### 4 Open the **Admin State** drop-down menu and select **enable** (to enable the port) or **disable** (to disable the port).

### 5 Click **Apply**.

The port's state is modified.

Click **Refresh** to view updated information.

## Disabling a Group

To disable a group:

- ▲ **Important:** Group 15 (the bottom module within a stack) and the stack's management module CANNOT be disabled.

For more information on groups and group numbering, see "Group Numbering" on page 3-4.

- 1 Select the group to be disabled on the Device Page's front panel image by clicking on it once.

- 2 Click **Partition**.

The Board Partition table appears for the selected group, similar to Figure 3-16.

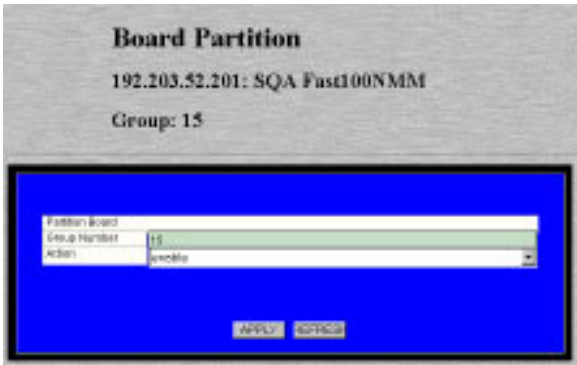


Figure 3-16 Board Partition table

- 3 Open the **Action** drop-down menu and select **disable**.

- 4 Click **Apply**.

The group is disabled.

Click **Refresh** to view updated information.

## Partitioning a Port

Port partitioning is an operation that is done **automatically** by the hub in certain circumstances to stop transmission on a port, if the port is enabled for automatic partitioning.

To enable or disable automatic partitioning:

- 1 Select the port to be partitioned (or group containing the port) by clicking on it once.
- 2 Click **Partition**.

The Port Partition table appears, similar to Figure 3-17.

Port Partition	
192.203.52.201: SQA Fast100NMM	
Group: 12	
Port: 1	
Partition Port	
Group Number	12
Port Number	1
Action	enabled
	other
	enabled
	disabled
<input type="button" value="APPLY"/> <input type="button" value="REFRESH"/>	

Figure 3-17 Port Partition table

- 3 Open the **Action** drop-down menu and select **enable** (to enable automatic partitioning) or **disable** (to disable automatic partitioning).
- 4 Click **Apply**.

The port's partitioning state is modified.

Click **Refresh** to view updated information.

## Resetting a Group or Device

If you changed the IP address, subnet mask, and/or default gateway for a management module within a device, that management module needs to be reset.

Resets can be performed at the device level (resets the entire stack) or at the group level (resets an individual hub or a management module).

To perform a reset:

1 To reset a group, click once on that group. To reset the device, do NOT select anything.

2 Click **Reset**.

Depending on what was selected (either a group or the device), the Reset Group or Reset Agent table appears, similar to Figure 3-18 and Figure 3-19.



Figure 3-18 Group Reset table



Figure 3-19 Device Reset table

3 Open the **Action** drop-down menu and select **reset**.

4 Click **Apply**.

The group or device is reset.

▲ **Important:** To abort the reset, click on the browser's back arrow to go back one page.



## Enabling Traps

The Trap Authentication feature enables an AsantéFAST 100 Hub stack's management module to generate traps. Traps are generated when certain actions — such as an unauthorized IP address attempts to access a certain port — are violated.

To enable Trap Authentication:

- 1 Do not select any item on the Device Page's front panel image. (This selects the entire hub stack.)
- 2 Click **Agent**.

The Agent Information table appears, similar to Figure 3-20.

Agent Information	
192.203.52.201: SQA Fast100NMM	
<b>Software</b>	
SWVersion Major	1
SWVersion Minor	3
<b>Firmware</b>	
FWVersion Major	1
FWVersion Minor	2
<b>Authentication</b>	
Trap Authentication	enabled
Unauthorized ComS	
Unauthorized IP	0.0.0.0
<input type="button" value="APPLY"/> <input type="button" value="REFRESH"/>	

Figure 3-20 Agent Information table

- 3 Open the **Trap Authentication** drop-down menu and select **enabled**.
- 4 Click **Apply**.

The management module is configured to generate traps.

△ **Note:** For information on determining when a trap occurs, see “Setting Alarms” on page 3-24 and “Setting Port Security” on page 3-28.

For information on determining which management stations can receive traps, see “Managing Trap Receivers” on page 3-22.

Click **Refresh** to view updated information.

## Managing Trap Receivers

The Trap Receivers menu allows you to set which management stations on your network can receive traps. This section describes how to add and delete a trap receiver.

To add a trap receiver entry:

- 1 Do not select any item on the Device Page's front panel image. (This selects the entire hub stack.)
- 2 Click **Trap Receiver**.

The Trap Receiver Table appears, similar to Figure 3-21.

Status	Trap Receiver Address	Community String
valid	192.203.52.191	public
valid	192.203.52.190	public
valid	192.203.52.217	public

Figure 3-21 Trap Receiver Table

- 3 Click **Add**.
- The Add Dialog box appears.
- 4 Open the **Status** drop-down menu and select **valid**.
  - 5 Type the IP address of the management station that is to receive traps in the **Trap Receiver Address** field.
    - ▲ **Important:** Do NOT type an IP address of 0.0.0.0.
  - 6 Type the community string for the management station in the **Community String** field.
  - 7 Click **Apply**.

The entry for the management station is added and appears in the table. If it does not appear, click **Refresh**.

### Deleting a Trap Receiver Entry

To delete a trap receiver entry:

- 1 Click once on the row containing the entry to be deleted.
- 2 Click **Modify**.  
The Modify Dialog box appears.
- 3 Open the **Status** drop-down menu and select **invalid**.
- 4 Click **Apply**.
- 5 Click **Refresh** in the Trap Receiver Table.  
The trap receiver is deleted.

### Modifying a Trap Receiver Entry

To change the IP address of a trap receiver entry:

- 1 Delete the trap receiver entry, following the directions above.
- 2 Add a new trap receiver entry, following the instructions on page 3-22.  
The trap receiver entry's IP address is changed.  
Click **Refresh** to view updated information.

## Setting Alarms

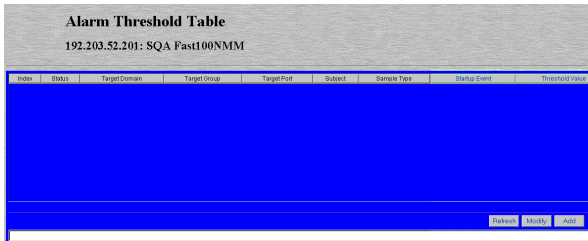
Alarm thresholds can help you locate problems or faults on the network. When you set a threshold for an activity on a hub, you instruct the hub to take a specific action when a value falls above or below the set threshold.

This section explains how to set, delete, and modify alarm thresholds.

To add an alarm:

- 1 Do not select any item on the Device Page's front panel image. (This selects the entire device.)
- 2 Click **Threshold**.

The Alarm Threshold Table appears, similar to Figure 3-22.



Index	Status	Target Command	Target Group	Target Port	Subject	Sample Type	Status Event	Threshold Value
-------	--------	----------------	--------------	-------------	---------	-------------	--------------	-----------------

Figure 3-22 Alarm Threshold Table

△ **Note:** If there are no alarm thresholds set, the table is empty.

- 3 Click **Add** to add an entry.

The Add Dialog box appears, similar to Figure 3-23.




Figure 3-23 Add Alarm Threshold Dialog box

- 4 Complete each entry as outlined on page 3-25.
- 5 Click **Apply**.

The alarm threshold is added. If it does not appear in the Alarm Threshold Table, click **Refresh**.

Field	Description	Action
<b>Index</b>	Displays the number of the alarm entry.	This field is read-only; it cannot be edited.
<b>Status</b>	The status of the alarm entry.	Select <b>valid</b> to add an alarm or <b>invalid</b> to delete the alarm.
<b>Target Domain</b>	The portion of the device for which the alarm is to be set.	Select <b>port</b> , <b>group</b> , or <b>segment0</b> (device) from the drop-down menu.
<b>Target Group</b>	The number of the group for which the alarm is to be set.	Only enter a group number if <b>group</b> was selected as the <b>Target Domain</b> .
<b>Target Port</b>	The number of the port for which the alarm is to be set.	Only enter a port number if <b>port</b> was selected as the <b>Target Domain</b> .
<b>Subject</b>	The counter to be polled for the alarm.	Select a counter from the drop-down menu. See "Subject" on page 4-14 for a description of each counter.
<b>Sample Type</b>	The unit of measure for the alarm.	This field cannot be edited; it is always set to <b>event-persecond</b> .
<b>Startup Event</b>	Determines when the alarm is to be triggered.	Select <b>rising</b> , <b>falling</b> , or <b>risingANDfalling</b> from the drop-down menu. See "Startup Event" on page 4-15 for a description of each event.
<b>Threshold Value</b>	The value that triggers the alarm.	Enter an integer.
<b>Detected Value</b>	Displays the last measurement made.	This field is read-only; it cannot be edited.
<b>Rising Event</b>	The response to occur for a triggered rising event.	Select a response from the drop-down menu. See "Rising Event" on page 4-15 for a description of each response.
<b>Falling Event</b>	The response to occur for a triggered falling event.	Select a response from the drop-down menu. See "Falling Event" on page 4-15 for a description of each response.

## Management

Field	Description	Action
Sampling Interval	The polling interval that determines how often to make the measurement.	Enter a number (in seconds). <b>Note:</b> The shorter the sampling interval, the more traffic on the network.
Owner String	The name of the person who defined the alarm entry.	Enter an eight-byte octet.

### Deleting an Alarm

To delete an alarm:

- 1 Select the alarm entry to be deleted by clicking once on its row in the Alarm Threshold Table.
- 2 Click **Modify**.  
The Modify Dialog box appears.
- 3 Open the **Status** drop-down menu and select **invalid**.
- 4 Click **Apply**.  
The alarm is deleted. Click **Refresh** to view updated information.

### Modifying an Alarm

To modify an alarm:

- 1 Select the alarm entry to be modified by clicking once on its row in the Alarm Threshold Table.
- 2 Click **Modify**.  
The Modify Dialog box appears.
- 3 Modify the parameters, as desired, following the guidelines on page 3-25.
- 4 Click **Apply**.  
The alarm is modified. Click **Refresh** to view updated information.

## Viewing Node Summary Information

The Node Summary menu provides IP mapping information (a summary of node activity) for the device or a selected group. Each node address remains in the table for the amount of seconds specified in the Node Aging Timer.

To view node summary information:

1 To view node summary information for the device, do not select anything on the front panel image. To view information for a particular group, click once on a group.

2 Click **Node Summary**.

The Node Summary table appears for the device or selected group, similar to Figure 3-24.

Node Summary Table -Device-  
192.203.52.208: SQA PreRel 100NMM

NodeAging Timer: 4,294,967,295

Group Number	Port Number	Last IP Address	Last Physical Address	Number of Addresses
14	1	0.0.0.0	00:00:00:00:00:00	0
14	2	0.0.0.0	00:00:00:00:00:00	0
14	3	0.0.0.0	00:00:00:00:00:00	0
14	4	0.0.0.0	00:00:00:00:00:00	0
14	5	0.0.0.0	00:00:00:00:00:00	0
14	6	0.0.0.0	00:00:00:00:00:00	0

Figure 3-24 Node Summary Table

You can set the amount of time each entry remains in the table by typing the number of seconds in the Node Aging Timer field and clicking **Apply**.

- The default setting is **-1** (this value prevents the table from updating; the value “4,294,967,295” appears in the field).
- A value of **0** never deletes the entries in the table.
- △ **Note:** The information displayed in the Node Summary Table is read-only.

For a description of each field, see “Node Summary” on page 4-16.

3 Click **Refresh** to view updated information.

## Setting Port Security

The Port Security menu allows network managers to control access to ports by specifying the physical addresses that are authorized to connect to the ports. If an unspecified physical address attempts to connect to a certain port, an action (such as automatic partitioning of the port, sending of a trap, etc) can be specified to occur.

To set port security:

- 1 Do not select any item on the Device Page's front panel image. (This selects the entire hub stack.)
- 2 Click **Port Security**.

The Port Security Table appears, similar to Figure 3-25.

GroupIndex	PortIndex	Status	Allowed Address	Violation Action
15	5	add	00:00:54:03:00:00	partitionport

Figure 3-25 Port Security Table

- 3 Click the **Add** button.

The Add Dialog box appears, similar to Figure 3-26.

GroupIndex:  Status:

PortIndex:  Allowed Address:

Violation Action:

Figure 3-26 Add Port Security Dialog box

- 4 Enter the number of the group for which port security information is to be set in the **GroupIndex** field.



- 5 Enter the number of the port for which port security information is to be set in the **PortIndex** field.
- 6 Open the **Status** drop-down menu and select **valid**.
- 7 Enter the physical (MAC) address that is allowed to use the selected port number in the **Allowed Address** field.

▲ **Important:** Enter the physical address in hexadecimal notation separated by colons. For example, 00:00:94:C5:15:F1.

- 8 Open the **Violation Action** drop-down menu and select the violation action to occur if an unauthorized MAC address attempts to access the port.

For a description of each violation action, see “Violation Action” on page 4-20.

- 9 Click **Apply**.

The port security information is configured.

Click **Refresh** to view updated information.

## Viewing Statistics

Statistics for an AsantéFAST 100 Hub stack can be viewed in two different formats: table or graph. Statistics collected include runts, alignment errors, late collisions, short events, good frames, and bad frames.

### Table Statistics

- 1 Select a group or a port for which statistics are to be gathered by clicking on it once. To view statistics for the device (entire hub stack), do NOT select anything.
- 2 Click **Table**.  
Table statistics appear for the group, port, or device selected, similar to Figure 3-27.

Object	Curr	Peak	Avg	Total
Good Frames	35	26	17	3,276,214
Runts	0	0	0	0
Alignment Errors	0	0	0	5,410
Align Word Errors	0	0	0	14
FCB Errors	0	0	0	30
Out-of-Order Frames	0	0	0	0
Short Events	0	0	0	4,281
Collisions	0	0	0	3,481
Late Collisions	0	0	0	0
Resolvable Collisions	0	0	0	0
Late Frame Retries	0	0	0	0
Bad Frames	0	0	0	4,311
Resolvable Collisions	3,038	2,938	1,871	347,238,881

Figure 3-27 Table Statistics

For a description of each object, see “Statistics” on page 4-17.

- 3 Open the **Sampling Interval** drop-down menu and select the number of seconds to poll for statistics. Statistics are automatically gathered in the following columns:
  - Curr** — (current) the number of occurrences each second.
  - Peak** — the largest number of occurrences since opening or resetting the screen.
  - Avg** — (average) the average number of occurrences since opening or resetting the screen.
  - Total** — the total number of occurrences since opening or resetting the screen.
- 4 Click **Reset** to reset the counters to zero.

## Graph Statistics

- 1 Select a group or a port for which statistics are to be gathered by clicking on it once on the front panel image. To view statistics for the device, do NOT select anything.
- 2 Click **Graph**.

The Graph Statistics page appears for the group, port or device selected, similar to Figure 3-28.

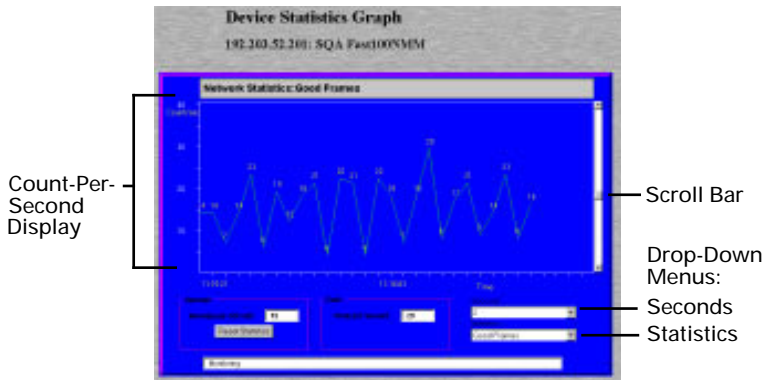


Figure 3-28 Graph Statistics page

- 3 Open the **Statistics** drop-down menu and select the object to be monitored.  
For a description of each object, see “Statistics” on page 4-17.
- 4 Open the **Seconds** drop-down menu and select the number of seconds for which statistics are to be gathered.
- 5 Use the scroll button to change the graph’s count-per-second display (scroll up to increase the count-per-second, scroll down to decrease it).
  - Average per Second** — the average number of occurrences since opening or resetting the screen.
  - Peak per Second** — the largest number of occurrences since opening or resetting the screen.
- 6 Click **Reset** to reset the counters to zero.



# 4

## Menus

---

This chapter describes each management menu and its contents on the AsantéFAST 100 Hub and AsantéFAST 100 TX Managed Hub Personality Modules' Device Page.

The table below provides a brief description of each menu; the sections that follow explain each menu in detail.

Table 4-1 Device Page Menu Descriptions

Menu	Description
<b>Configuration</b>	Title for the submenus listed below it; this menu cannot be selected. See "Configuration" on page 4-3.
<b>Identify</b>	Allows you to view and configure device identification information. See "Identify" on page 4-3.
<b>Device</b>	Allows you to view general device information. See "Device" on page 4-4.
<b>Modules</b>	Allows you to view information on the device's group types. See "Modules" on page 4-5.
<b>Ports</b>	Allows you to view information for each port and enable and disable ports. See "Ports" on page 4-6.
<b>Agent</b>	Allows you to view information on the device's SNMP agent, such as software and firmware information, and allows you to enable and disable trap authentication. See "Agent" on page 4-8.
<b>Network</b>	Allows you to view and configure network access information for the device. See "Network" on page 4-9.
<b>SWUpgrade</b>	Allows you to determine the file name and server address for upgrading the switch's software. See "SWUpgrade" on page 4-10.

## Menus

Menu	Description
<b>Control</b>	Title for the submenus listed below it; this menu cannot be selected. See "Control" on page 4-11.
<b>Reset</b>	Allows you to reset a group or device. See "Reset" on page 4-11.
<b>Partition</b>	Allows you to enable or disable a group and partition a port. See "Partition" on page 4-12.
<b>Threshold</b>	Allows you to set alarm thresholds for the device. See "Threshold" on page 4-13.
<b>Node Summary</b>	Allows you to view IP mapping information for the device or a group. See "Node Summary" on page 4-16.
<b>Validate</b>	Updates the Device Page with the latest information from the IntraSpecation Application Server database. See "Validate" on page 4-17.
<b>Statistics</b>	Title for the submenus listed below it; this menu cannot be selected. See "Statistics" on page 4-17.
<b>Table</b>	Allows you to view real-time statistical data, in table format, on the device. See "Table" on page 4-17.
<b>Graph</b>	Allows you to view real-time statistical data, in graph format, on the device. See "Graph" on page 4-19.
<b>Security</b>	Title for the submenus listed below it; this menu cannot be selected. See "Security" on page 4-20.
<b>Port Security</b>	Allows you to control access to ports by determining which IP addresses are allowed to connect to certain ports. See "Port Security" on page 4-20.
<b>Trap Receivers</b>	Allows you to determine which management stations can receive traps from the device. See "Trap Receivers" on page 4-21.

## Configuration

This menu is not a management option; it is a title for the configuration sub-menus listed below it. This menu CANNOT be selected.

## Identify

This menu provides read-only and configurable identification information for the device.

Table 4-2 describes each field in the Identify menu.

- △ **Note:** For instructions on using this menu, see “Configuring Device Identification Information” on page 3-11.

Table 4-2 Identify Menu

Field	Description
Physical Address	Read-only field; displays the device's hardware address.
Object ID	Read-only field; displays the device's SNMP identifying number.
Description	Read-only field; displays a description of the device.
Name	Configurable field; assigns a name to the device. <b>Note:</b> A maximum of 254 characters (including spaces) is allowed.
Location	Configurable field; assigns a location to the device (where the device is physically located). <b>Note:</b> A maximum of 254 characters (including spaces) is allowed.
Contact	Configurable field; assigns a name of the person responsible for the device. <b>Note:</b> A maximum of 254 characters (including spaces) is allowed.
Up Time	Read-only field; displays the amount of time the device has been operational since the last time it was off-line.
Interfaces	Read-only field; displays the number of network interfaces present on this device.

## Device

This menu provides read-only, general information on the device.

Table 4-3 describes each field in the Device menu.

- △ **Note:** For instructions on using this menu, see “Viewing General Device Information” on page 3-14.

Table 4-3 Device Menu

Field	Description
Version Number	Read-only field; displays the current version number of the device.
Revision Number	Read-only field; displays the current revision number of the device.
Number of Groups	Read-only field; displays the number of groups the device contains.
Chassis Type	Read-only field; displays the device's chassis type. <b>Note:</b> This field always displays <b>FastHub100</b> .
Backplane Type	Read-only field; displays the device's backplane type. <b>Note:</b> This field always displays <b>FastHub100</b> .
Backplane Rev	Read-only field; displays the device's backplane revision number.



## Modules

This menu provides read-only information on each group within the device.

Table 4-4 describes each field in the Modules menu.

- △ **Note:** For instructions on using this menu, see “Viewing Module Information” on page 3-15.

Table 4-4 Modules Menu

Field	Description
<b>Group Index</b>	Read-only field; displays the number of the selected group.
<b>Number of Ports</b>	Read-only field; displays the total number of ports in the group.
<b>Module Type</b>	Read-only field; displays the type of module of the selected group. For example, <b>FastHub100</b> or <b>Management Module</b> . <b>Note:</b> The table displays entries for groups 1 through 15; a module type of <b>empty</b> means that there is physically no group in that position in the device. See “Group Numbering” on page 3-3 for more information on groups and group numbering.
<b>Description</b>	Read-only field; displays a description of the group.
<b>HW Revision Number</b>	Read-only field; displays the hardware revision number of the device.
<b>State</b>	Read-only field; displays the state of the module. <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>OK</b> — the module is not a “master” module (it does not manage other devices within the stack) and is currently operating.</li> <li><input type="checkbox"/> <b>Fail</b> — a problem with the module’s board has been detected.</li> <li><input type="checkbox"/> <b>Master NMM</b> — the module is a “master” module (it manages other devices in the stack).</li> <li><input type="checkbox"/> <b>Standby NMM</b> — the module is capable of being a “master” module.</li> </ul>

## Ports

This menu provides read-only and configurable information for each port on the device.

Table 4-5 describes each field in the Ports menu.

- △ **Note:** For instructions on using this menu, see “Enabling/Disabling Ports” on page 3-17 and “Partitioning a Port” on page 3-19.

Table 4-5 Ports Menu

Field	Description
<b>Group Index</b>	Read-only field; displays the number of the group to which the selected port belongs.
<b>Port Index</b>	Read-only field; displays the number of the port for which information is displayed.
<b>Port Type</b>	Read-only field; displays the type of connector on the port (for example, <b>RJ-45</b> ).
<b>Link Status</b>	Read-only field; displays if a device is connected to the selected port. <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>linkon</b> — a device is properly connected to the selected port and is powered on.</li> <li><input type="checkbox"/> <b>linkoff</b> — a device is not connected to the port.</li> </ul>
<b>AutoPort Status</b>	Configurable field; displays the automatic partitioning status of the selected port. <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>autopartitioned</b> — the port is configured for automatic partitioning.</li> <li><input type="checkbox"/> <b>noautopartitioned</b> — the port is not configured for automatic partitioning.</li> </ul> See “Partitioning a Port” on page 3-19 for instructions.
<b>Jabber Status</b>	Read-only field; displays the status of the Jabber Detector (a device that helps prevent a node from transmitting constantly; for example, if the node is malfunctioning). <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>on</b> — jabber detector is on.</li> <li><input type="checkbox"/> <b>off</b> — jabber detector is off.</li> </ul>

Field	Description
<b>Admin Status</b>	<p>Configurable field; determines the state of the port.</p> <ul style="list-style-type: none"><li><input type="checkbox"/> <b>enabled</b> — the port is enabled and can receive packets.</li><li><input type="checkbox"/> <b>disabled</b> — the port is disabled and cannot receive packets.</li></ul> <p>See “Enabling/Disabling Ports” on page 3-17 for instructions.</p>

## Agent

This menu provides read-only and configurable information for the device's SNMP agent.

Table 4-6 describes each field in the Agent menu.

- Δ **Note:** For instructions on using this menu, see “Viewing SNMP Agent Information” on page 3-16.

Table 4-6 Agent Menu

Field	Description
<b>SWVersion Major</b>	Read-only field; displays the major software version number of the device's management module. <b>Note:</b> If the unit is running code version 1.2, the SWVersion Major number is 1.
<b>SWVersion Minor</b>	Read-only field; displays the minor software version number of the device's management module. <b>Note:</b> If the unit is running code version 1.2, the SWVersion Minor number is 2.
<b>FWVersion Major</b>	Read-only field; displays the major firmware version number of the device's management module. <b>Note:</b> If the unit is running code version 1.2, the FWVersion Major number is 1.
<b>FWVersion Minor</b>	Read-only field; displays the minor firmware version number of the device's management module. <b>Note:</b> If the unit is running code version 1.2, the FWVersion Major number is 2.
<b>Trap Authentication</b>	Configurable field; indicates if the device can send traps to the trap receiving stations.  <input type="checkbox"/> <b>enable</b> — the device can send traps. <input type="checkbox"/> <b>diable</b> — the device cannot send traps. See “Enabling Traps” on page 3-21 for instructions.
<b>Unauthorized Com Strin</b>	Read-only field; displays the community string of the last network station that attempted to access the management module.
<b>Unauthorized IP</b>	Read-only field; displays the IP address of the last network station that attempted to access the device with an invalid community string. (The community string that was used is displayed in the <b>Unauthorized Com Strin</b> field.)

## Network

This menu provides configurable network access information for the device's management module. This information is needed to access the device across the network (in-band management).

Table 4-7 describes each field in the Network menu.

- ▲ **Important:** If you change the **IP address, subnet mask, or default gateway**, the management module needs to be reset in order for the changes to take effect. See “Resetting a Group or Device ” on page 3-20 for instructions.
- △ **Note:** For instructions on using this menu, see “Configuring Network Access Parameters” on page 3-10.

Table 4-7 Network Menu

Field	Description
<b>Agent's IP Address</b>	Configurable field; displays the IP address of the management module's SNMP agent.
<b>Subnet Mask</b>	Configurable field; displays the subnet address of the device.  <i>Note:</i> A subnet mask, in the IP addressing scheme, is a group of selected bits whose values serve to identify a subnetwork. All members of the subnetwork share the mask value.
<b>Default Gateway</b>	Configurable field; displays the address of the default gateway to which the device belongs.
<b>Boot Server</b>	Configurable field; displays the IP address of the boot server that was used for booting the IP agent.
<b>Dial String</b>	Configurable field; displays the initialization string used by the network management station to establish an out-of-band connection with the device.
<b>Baud Rate</b>	Configurable field; displays the baud rate for accessing the device via out-of-band management. The default is <b>9600</b> .

## SWUpgrade

This menu provides read-only and configurable software upgrade and boot method information (the parameters used for downloading a new version of software) for the device.

Table 4-8 describes each field in the SWUpgrade menu.

- △ **Note:** For instructions on using this menu, see “Performing a Software Upgrade” on page 3-12.

Table 4-8 SWUpgrade Menu

Field	Description
<b>SW Major Version</b>	Read-only field; displays the major software version number of the device. <b>Note:</b> If the unit is running code version 1.2, the SW Major Version number is 1.
<b>SW Minor Version</b>	Read-only field; displays the minor software version number of the device. <b>Note:</b> If the unit is running code version 1.2, the SW Minor Version number is 2.
<b>Boot File Name</b>	Configurable field; sets the network path and name of the boot file for the device.
<b>Server Address</b>	Configurable field; sets the boot server’s IP address.
<b>Image Load Mode</b>	Configurable field; determines the method for loading the software. <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>localBoot</b> — sets the device to boot from code stored in device (default setting).</li> <li><input type="checkbox"/> <b>netBoot</b> — sets the device to boot from a TFTP server on the network.</li> </ul>
<b>Remote Boot Info</b>	Read-only field; indicates that the boot configuration parameters are originating from EEPROM. <b>Note:</b> This field always displays <b>eepromBootInfo</b>
<b>Remote Boot Protocol</b>	Configurable field; determines the remote boot protocol used to load the software. <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>bootptftp</b> — sets the device to request an IP address from a BootP server and to load the software from a TFTP server.</li> <li><input type="checkbox"/> <b>tftponly</b> — sets the device to only load the software across the network (the device must already be configured with an IP address).</li> </ul>

## Control

This menu is not a management option; it is a title for the sub-menus listed below it. This menu CANNOT be selected.

## Reset

This menu allows you to reset the device or a selected group within the device.

Table 4-9 describes each field in the Reset menu.

- △ **Note:** For instructions on using this menu, see “Resetting a Group or Device” on page 3-20.

Table 4-9 Reset Menu

Field	Description
Device Level (Reset Agent)	
Reset Agent	Configurable field; resets the device. <input type="checkbox"/> <b>reset</b> — resets the device . <input type="checkbox"/> <b>not-reset</b> — does not reset the device.
Group Level (Reset Group)	
Group Number	Read-only field; displays the number of the group to be reset.
Action	Configurable field; resets the group. <input type="checkbox"/> <b>reset</b> — resets the selected group. <input type="checkbox"/> <b>not-reset</b> — does not reset the selected group.

## Partition

This menu allows you to disable a group or configure a port for automatic partitioning.

Table 4-10 describes each field in the Partition menu.

- ▲ **Important:** Group 15 (the bottom module in the stack) and the stack’s management module CANNOT be disabled.

For more information on groups and group numbering, see “Group Numbering” on page 3-4.

- △ **Note:** For instructions on using this menu, see “Disabling a Group” on page 3-18 and “Partitioning a Port” on page 3-19.

Table 4-10 Partition Menu

Field	Description
Group Level (Board Partition)	
Group Number	Read-only field; displays the number of the selected group to be disabled.
Action	Configurable field; disables or enables the group. <input type="checkbox"/> <b>disable</b> — disables the selected group. <input type="checkbox"/> <b>enable</b> — enables the selected group.
Port Level	
Group Number	Read-only field; displays the number of the group to which the selected port belongs.
Port Number	Read-only field; displays the number of the selected port.
Action	Configurable field; enables or disables automatic partitioning on the port. <input type="checkbox"/> <b>enabled</b> — enables automatic partitioning on the selected port. <input type="checkbox"/> <b>disable</b> — disables automatic partitioning on the selected port.



## Threshold

This menu displays the current alarms that are set and allows alarms to be added or modified.

Alarms can help you locate problems or faults on the network. When you set an alarm threshold for an activity on a hub, you instruct the hub to take a specific action when the value falls above or below the set threshold.

Table 4-11 describes each field in the Threshold menu.

- △ **Note:** For instructions on using this menu, see “Setting Alarms” on page 3-24.

Table 4-11 Threshold Menu

Field	Description
<b>Index</b>	Read-only field; displays the number of the alarm entry. This field cannot be modified.
<b>Status</b>	Configurable field; displays the status of the entry in the table. <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>valid</b> — active entry.</li> <li><input type="checkbox"/> <b>invalid</b> — inactive entry (deletes the entry when selected).</li> </ul>
<b>Target Domain</b>	Configurable field; determines the portion of the device for which alarms are being set. <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>port</b> — sets the alarm for a specific port; you must enter the port number in the <b>Target Port</b> field.</li> <li><input type="checkbox"/> <b>group</b> — sets the alarm for a specific group; you must enter the group number in the <b>Target Group</b> field.</li> <li><input type="checkbox"/> <b>segment0</b> — sets the alarm for the entire device.</li> </ul>
<b>Target Group</b>	Configurable field; determines the group number for which to set the alarm. <p><b>Important:</b> This field only needs to be edited if the Target Domain is set to <b>group</b>.</p>
<b>Target Port</b>	Configurable field; determines the port number for which to set the alarm. <p><b>Important:</b> This field only needs to be edited if the Target Domain is set to <b>port</b>.</p>

## Menus

Field	Description
<b>Subject</b>	<p>Configurable field; determines the counter to be polled.</p> <ul style="list-style-type: none"><li><input type="checkbox"/> <b>readableframes</b> — the total number of good or readable frames (frames without error).</li><li><input type="checkbox"/> <b>frametoolong</b> — the number of frames that were longer than 1,518 bytes.</li><li><input type="checkbox"/> <b>runts</b> — the number of frames that were shorter than 64 bytes.</li><li><input type="checkbox"/> <b>alignmenterrors</b> — the number of frames that were an integral number of octets in length and did not pass the FCS check.</li><li><input type="checkbox"/> <b>fcerrors</b> — the number of frames that failed Cyclic Redundancy Check (CRC).</li><li><input type="checkbox"/> <b>datarateismatch</b> — the number of errors where the incoming data rate is not within the tolerance level of 10Mhz (+ or - 0.01%).</li><li><input type="checkbox"/> <b>shorthevents</b> — the number of data bursts, where data is less than 10 bytes in length.</li><li><input type="checkbox"/> <b>collisions</b> — the total number of collisions.</li><li><input type="checkbox"/> <b>latecollisions</b> — the number of collisions that occurred after the 64-byte collision window.</li><li><input type="checkbox"/> <b>autopartitions</b> — the number of times the port was automatically partitioned in response to 31 or more continuous collisions.</li><li><input type="checkbox"/> <b>badframes</b> — the number of invalid frames (including toolong, runts, misaligned, or bad FCS).</li></ul>
<b>Sample Type</b>	<p>Read-only field; sets a unit of measure for the alarm.</p> <p><b>Note:</b> This field is always set to <b>eventpersecond</b> and cannot be modified.</p>

Field	Description
<b>Startup Event</b>	Configurable field; determines when the alarm is to be triggered. <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>rising</b> — alarm is triggered when the event rate rises above the threshold.</li> <li><input type="checkbox"/> <b>falling</b> — alarm is triggered when the event rate falls below the threshold.</li> <li><input type="checkbox"/> <b>rising and falling</b> — alarm is triggered when the event rate rises above or falls below the threshold.</li> </ul>
<b>Threshold Value</b>	Configurable field; sets the value that triggers the alarm.
<b>Detected Value</b>	Read-only field; displays the last measurement made.
<b>Rising Event</b>	Configurable field; displays the response to a triggered rising event. <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>partitionport</b> — partitions the target port.</li> <li><input type="checkbox"/> <b>sendtrap</b> — sends a trap to the receiving trap station.</li> <li><input type="checkbox"/> <b>partitionportANDsendtrap</b> — partitions the target port and sends a trap.</li> <li><input type="checkbox"/> <b>sendtrapANDrequestpage</b> — sends a trap and sends a page to the network administrator (if the trap receiving station is an AsantéView Management Station).</li> <li><input type="checkbox"/> <b>partitionportANDsendtrapANDrequestpage</b> — partitions the target port, sends a trap, and send a page to the network administrator (if the trap receiving station is an AsantéView Management Station).</li> </ul>
<b>Falling Event</b>	Configurable field; displays the response to a triggered falling event. Options are the same as those for a rising event (see "Rising Event" above).
<b>Sample Interval</b>	Configurable field; sets (in seconds) the polling interval. <p><b>Note:</b> The shorter this time period, the more traffic on the network.</p>
<b>Owner String</b>	Configurable field; displays the name of the person who defined the entry (eight-byte octect).

## Node Summary

This menu provides IP mapping information (a summary of node activity on the device or a selected group).

Table 4-12 describes each field in the Node Summary menu.

- Δ **Note:** For instructions on using this menu, see “Viewing Node Summary Information” on page 3-27.

Table 4-12 Node Summary Menu

Field	Description
<b>NodeAgingTimer</b>	Configurable field; specifies the amount of time (in seconds) to keep the node entry in the table. This value can be any number, including : <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>-1</b> — prevents the table from updating. When this value is entered in the Node Aging Timer field, the value “4,294,967,295” is displayed.</li> <li><input type="checkbox"/> <b>0</b> — entries are not deleted from the table</li> </ul> The amount of time is rounded to the nearest minute.
<b>Group Number</b>	Read-only field; displays the number of the selected group.
<b>Port Number</b>	Read-only field; displays the number of the port on the group.
<b>Last IP Address</b>	Read-only field; displays the last known IP address that is associated with the port.
<b>Last Physical Address</b>	Read-only field; displays the last MAC address associated with the port.
<b>Number of Addresses</b>	Read-only field; displays the number of addresses received on the port.

## Validate

This menu updates the Personality Module's Device Page with the latest information stored in the IntraSpection Application Server database.

For instructions on using this menu, see "Updating the Device Page" on page 3-13.

## Statistics

This menu is not an actual management option; it is a title to the sub-menus listed below it. This menu CANNOT be selected.

## Table

This menu provides real-time statistical information, in a table format, on the device, group or port selected.

Table 4-13 describes each field in the Table menu.

- △ **Note:** For instructions on using this menu, see "Viewing Statistics" on page 3-30.

Table 4-13 Table Menu

Field	Description
Sampling Interval	Configurable field; allows you to set the amount of time (in seconds) that the device/group/port is polled for information.
Reset	Button; resets the counters to zero in the statistics table.
Objects	<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Good Frames</b> — the total number of good or readable frames (frames without error).</li> <li><input type="checkbox"/> <b>FramesTooLongErrors</b> — the number of frames that were longer than 1518 bytes.</li> <li><input type="checkbox"/> <b>Runts</b> — the number of frames that were shorter than 64 bytes.</li> <li><input type="checkbox"/> <b>Alignment Errors</b> — the number of frames that were an integral number of octets in length and did not pass the FCS check.</li> <li><input type="checkbox"/> <b>FCS Errors</b> — the number of frames that failed Cyclic Redundancy Check (CRC).</li> <li><input type="checkbox"/> <b>Late Collisions</b> — the number of collisions that occurred after the 64-byte collision window.</li> </ul>

## Menus

Field	Description
	<ul style="list-style-type: none"><li data-bbox="377 212 894 293">❑ <b>Datarate Mismatch</b> — the number of errors where the incoming data rate is not within the tolerance level of 10Mhz (+ or - 0.01%).</li><li data-bbox="377 305 862 358">❑ <b>Short Events</b> — the number of data bursts, where data is less than 10 bytes in length.</li><li data-bbox="377 370 894 423">❑ <b>MauJabberLockups</b> — the number of times the hub repeater chip goes into a lockup state.</li><li data-bbox="377 435 894 516">❑ <b>Auto Partitions</b> — the number of times the port was automatically partitioned in response to 31 or more continuous collisions.</li><li data-bbox="377 527 880 609">❑ <b>Bad Frames</b> — the number of invalid frames (including toolong, runts, misaligned, or bad FCS).</li><li data-bbox="377 620 891 673">❑ <b>Readable Octets</b> — the total number of octets received from valid frames.</li></ul>

## Graph

This menu provides real-time statistical information, in a graph format, on the device, group or port selected.

Table 4-14 describes each field in the Graph menu.

- △ **Note:** For instructions on using this menu, see “Viewing Statistics” on page 3-30.

Table 4-14 Graph Menu

Field	Description
<b>Seconds</b>	Drop-down menu; specifies the amount of time (in seconds) that the device/group/port is polled for information.
<b>Statistics</b>	Drop-down menu; determines the object for which statistics are gathered. <b>Note:</b> For a description of each object, see “Objects” on page 4-17.
<b>Average per second</b>	Displays the average number of occurrences since opening or resetting the screen.
<b>Reset Statistics</b>	Button; resets the counters to zero in the graph.
<b>Peak per second</b>	Displays the largest number of occurrences since opening or resetting the screen.
<b>Count-per-second display</b>	Displays the amount of counts per second displayed on the graph. <b>Note:</b> To control the count-per-second display, use the scroll bar on the right side of the graph (scroll up to increase the count-per-second; scroll down to decrease it).
<b>Objects</b>	For a description of each object, see “Objects” on page 4-17.

## Security

This menu is not a management option; it is a title for the sub-menus listed below it. This menu CANNOT be selected.

### Port Security

This menu allows you to control access to ports by specifying the physical addresses that are allowed to connect to certain ports. If an unauthorized physical address attempts to connect to the restricted port, an action (such as partition the port, send a trap, etc) can occur.

Table 4-15 describes each field in the Port Security menu.

- △ **Note:** For instructions on using this menu, see “Setting Port Security” on page 3-28.

Table 4-15 Port Security Menu

Field	Description
<b>Group Index</b>	Read-only field; displays the number of the group selected.
<b>Port Index</b>	Read-only field; displays the number of the port on the group.
<b>Status</b>	Configurable field; determines the status of the entry. <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>valid</b> — entry is active.</li> <li><input type="checkbox"/> <b>invalid</b> — entry is inactive (deletes the entry).</li> </ul>
<b>Allowed Address</b>	Configurable field; displays the physical address that is allowed to connect to the specified port.
<b>Violation Action</b>	Configurable field; the action to occur if the physical address does not match the Allowed Address. <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>partitionport</b> — partitions the target port.</li> <li><input type="checkbox"/> <b>sendtrap</b> — sends a trap to the receiving station.</li> <li><input type="checkbox"/> <b>partitionportANDsendtrap</b> — partitions the target port and sends a trap.</li> <li><input type="checkbox"/> <b>sendtrapANDrequestpage</b> — sends a trap and sends a page to the network administrator (if the trap receiving station is an AsantéView Management Station).</li> <li><input type="checkbox"/> <b>partitionportANDsendtrapANDrequestpage</b> — partitions the target port, sends a trap, and send a page to the network administrator .</li> </ul>



## Trap Receivers

This menu allows you to determine the management stations that will receive traps from the device.

Table 4-16 describes each field in the Trap Receivers menu.

- △ **Note:** For instructions on using this menu, see “Managing Trap Receivers” on page 3-22.

Table 4-16 Trap Receivers Menu

Field	Description
<b>Status</b>	Configurable field; displays the status of the trap receiving station's entry. <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>valid</b> — trap receiver entry is active.</li> <li><input type="checkbox"/> <b>invalid</b> — trap receiver entry is inactive (deletes the trap receiver's entry in the table when selected).</li> </ul>
<b>Trap Receiver Address</b>	Configurable field; displays the IP address of the management station that can receive traps. To change or add an address, see “Managing Trap Receivers” on page 3-22.
<b>Community String</b>	Configurable field; displays the write community string of the receiving management station.



# A

## Technical Support

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### Contacting Asanté Technical Support

To contact Asanté Technical Support:

Telephone	(800) 622-7464
Fax	(408) 432-6018
Fax-Back	(800) 741-8607 (408) 954-8607
Internet Mail	support@asante.com
World Wide Web	<a href="http://www.asante.com">http://www.asante.com</a>
Bulletin Board Service (BBS)	(408) 432-1416
ARA BBS (guest log in)	(408) 894-0765
AppleLink mail/BBS	ASANTE
FTP Archive	ftp.asante.com

### Technical Support Hours

6:00 A.M. to 5:00 P.M. Pacific Standard Time USA, Monday – Friday.



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