

# **IntraSpection™ Personality Module**

**IntraSwitch™ 5324**

**User's Manual**

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# About This Manual

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This manual introduces the IntraSpection Personality Module for the following device:

- ❑ The Asanté IntraSwitch 5324 Ethernet Switch

This manual defines a Personality Module and explains how to install and use the IntraSwitch 5324 Personality Module.

## Chapter Contents

This manual is divided into the following chapters:

- ❑ Chapter 1, “Introduction,” describes an IntraSpection Personality Module and the system requirements needed for using one.
- ❑ Chapter 2, “Installation” explains how to install the IntraSwitch 5324 Personality Module.
- ❑ Chapter 3, “Accessing the Device,” explains how to access the IntraSwitch 5324 Personality Module’s **Device Page**, which allows for management of the IntraSwitch 5324.
- ❑ Chapter 4, “Management,” explains how to perform some basic management functions.
- ❑ Chapter 5, “Menus,” describes each of the IntraSwitch 5324 Personality Module’s management menus.

## Document Conventions

This manual uses the following conventions to convey instructions and information:

- Commands and key words are in **boldface** font.
- △ **Note:** Noteworthy information, which contains helpful suggestions or references to other sections in the manual, is in this format.
- ▲ **Important:** Significant information that calls attention to important features or instructions is in this format.

## Audience

This manual uses terms and concepts associated with Ethernet networking and switches; it is recommended that the user of this manual be familiar with local area networking and Ethernet switches.

This manual also assumes familiarity with IntraSpection Web-based network management.

# Introduction

---

## IntraSpection Personality Modules

A Personality Module is a “plug-in” to the IntraSpection system that allows for expanded management of an SNMP (Simple Network Management Protocol) 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.

## IntraSwitch 5324 Personality Module

The IntraSwitch 5324 Personality Module allows for expanded management of an Asanté IntraSwitch 5324 Ethernet switch. Management features are accessed via the Personality Module’s Device Page, shown in Figure 1-1.



Figure 1-1 IntraSwitch 5324 Device Page

# Management Options

The IntraSwitch 5324 Personality Module supports the following management options:

- Device identification information
- SNMP agent identification
- Port identification information
- Port enabling/disabling
- Port and SNMP agent counter statistics (in table and graph formats)
- Port and SNMP agent packet statistics (in table and graph formats)

See Chapter 5 “Menus” for a complete description of each management option.

## Minimum System Requirements

### Server

- IntraSpection version 1.01 or greater
- 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 (Open Database Connectivity), 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)

# 2

## Installation

---

### Installing a Personality Module

This chapter explains how to install the IntraSwitch 5324 Personality Module.

- ▲ **Important:** The Personality Module is installed on the computer where the IntraSpecation Application Server is installed.

Before installing the Personality Module, make sure that IntraSpecation (websuite.exe) is **not** running on the computer.

- 1 Insert the Personality Module CD into the computer.
- 2 Open the CD to display its contents.
- 3 Double-click the **IntraSwitch24p3.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.  
To decline the agreement and exit the installation, click **No**.  
The “IntraSpection 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 IntraSwitch24p3.ipm file. See Figure 2-1.



Figure 2-1 Select Module to Install window

- 10 Click once on the **IntraSwitch24p3.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 “IntraSpection Module Installation” window appears.

▲ **Important:** This window should be pointing to the directory that contains the IntraSpection (weBSITE.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:** An “Updating IntraSpection System Files” window may appear, if it does, click **OK**.

The installer program installs the IntraSwitch 5324 Personality Module into the IntraSpection Application Server.

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

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

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

For information on accessing the IntraSwitch 5324 for management, see Chapter 3, “Accessing the Device.”



# 3

## Accessing the Device

---

This chapter explains how to access the IntraSwitch 5324 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 IntraSwitch 5324, you must first create a map of the network in IntraSpection.

- 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 IntraSwitch 5324 to be managed in the **Segment** field.
  - Type the IntraSwitch 5324's community string in the **Community** field.
  - Make sure the **Enterprise ID** field has a value of **all**.

## Accessing the Device

- ❑ 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.

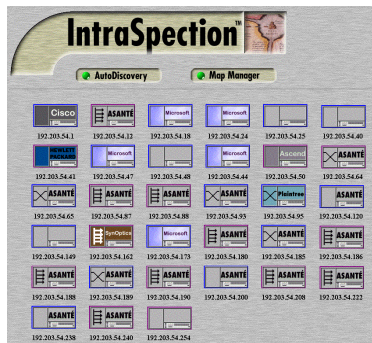


Figure 3-1 Discovered network map

### 6 After the map discovery process is complete, click once on the **map** icon (located at the bottom of the page on the IntraSpection navigation bar) to validate the devices on the map.

- △ **Note:** The devices on the map are validated when device symbols appear on selected icons.

### 7 Click once on the IntraSwitch 5324's icon.

- △ **Note:** This icon is labeled “Asante” and has the IntraSwitch 5324's IP address below it.

The Device Page for the IntraSwitch 5324 appears (see Figure 3-2 on page 3-3).

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

## Device Page Components

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

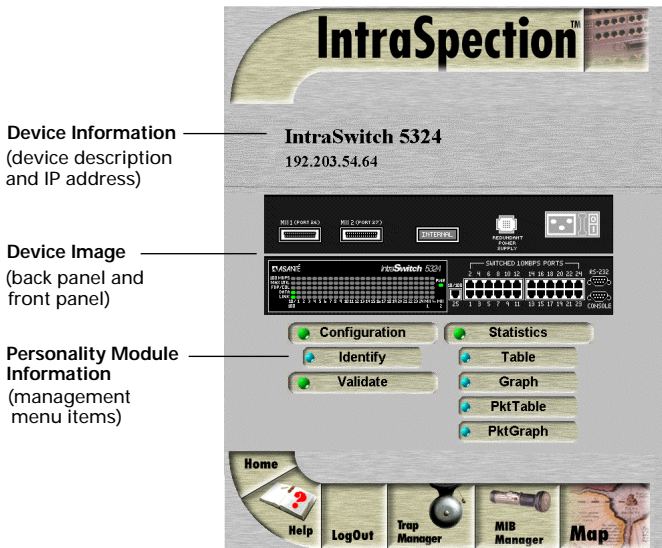


Figure 3-2 Device Page components

### Device Information

The following device information is displayed at the top of the Device Page:

- Device description (i.e., **IntraSwitch 5324**)
- Device IP address

## Device Image

The IntraSwitch 5324's back panel and front panel image contains the following components (as illustrated in Figure 3-3):

- ❑ **Device** — the entire IntraSwitch 5324.
- ❑ **MII Ports** — the IntraSwitch 5324's two MII (Media Independent Interface) ports (26 and 27, respectively).
- ❑ **Ports** — each 10Base-T port (1 - 24) and the single 10/100 port (25) on the IntraSwitch 5324's front panel.
- ❑ **Internal Port** — the IntraSwitch 5324's internal SNMP agent (port 28).
- ❑ **LEDs** — real-time LEDs that represent the LEDs on the IntraSwitch 5324; these LEDs display port activity.

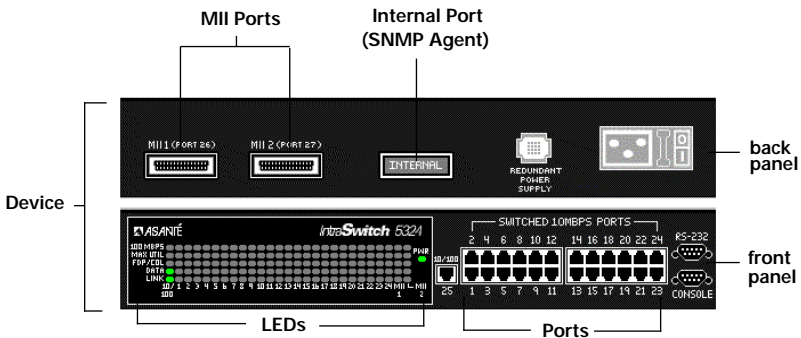


Figure 3-3 Back panel and front panel image components

- ▲ **Important:** Throughout this manual, the term **device** refers to the entire IntraSwitch 5324; the term **port** refers to an individual port.

## Selecting the Device for Management

The IntraSwitch 5324 can be managed at different levels; that is, at the device, SNMP agent, or port level.

For example, if the device is selected and you select the **Graph** menu, statistics for the entire IntraSwitch 5324 are displayed. If a port is selected and you select **Graph**, statistics for that port are displayed.

### Selecting an Item

Target Item	Action
Device (entire IntraSwitch 5324)	Do not click anything on the device image.
Device's SNMP agent	Click once on the <b>Internal</b> port button (located on the back-panel image).
Port	Click once on the port.

### Deselecting an Item

Target Item	Action
Device	Click once on a port.
Device's SNMP agent	Click again on the selected <b>Internal</b> port button.
Port	Click again on the selected port.

## Menu Components

The menus on the IntraSwitch 5324's Device Page provide access to the different management options supported by the 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

Some menus contain tables with columns that can be resized to fit the width of your screen. To resize a table column, place the mouse pointer on a column title's left or right side (until a double arrow appears) and drag 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 table with the latest information.
Modify	Modifies a selected entry.
Add	Adds an entry into the table.

# 4

## Management

---

This chapter explains how to perform some basic management functions with the IntraSwitch 5324 Personality Module.

### Performing Basic Management Functions

- ▲ **Important:** The tasks outlined in this chapter require access to the IntraSwitch 5324's Device Page. See Chapter 3, "Accessing the Device," for instructions.

This chapter covers the following configuration and management tasks:

#### Configuration Tasks

Management Task	Page
Setting community strings	page 4-2
Configuring device identification information	page 4-4

#### Management Tasks

Management Task	Page
Updating the Device Page	page 4-5
Viewing SNMP agent information	page 4-6
Viewing port information	page 4-7
Enabling or disabling a port	page 4-8
Viewing counter statistics (table or graph format)	page 4-9
Viewing packet statistics (table or graph format)	page 4-12

## Setting Community Strings

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

The community strings (read and write) for an IntraSwitch 5324 are manually set in the IntraSwitch via the unit's console port. In order to access the IntraSwitch 5324 with IntraSpecion, the community strings must be set in IntraSpecion to match those set in the IntraSwitch 5324.

- ▲ **Important:** It is recommended that you set the community strings for the IntraSwitch 5324 in IntraSpecion **before** you attempt to perform any network management functions.

This section describes how to set the community strings in IntraSpecion to match those set in the IntraSwitch 5324.

To set the community strings in IntraSpecion to match those of the IntraSwitch 5324:

- 1 On the Device Page, click the **map** icon on the IntraSpecion navigation bar (located at the bottom of the screen), as shown in Figure 4-1.



Figure 4-1 IntraSpecion navigation bar

The most recently discovered map appears.

- 2 Click the **Map Manager** button.  
The Map Manager Page appears, similar to Figure 4-2.



Figure 4-2 IntraSpection Map Manager Page

- 3 Click the **Edit Device** button.

The Map Configuration Table appears, similar to Figure 4-3.



Figure 4-3 Map Configuration Table

- 4 Enter the IntraSwitch 5324's IP address in the **IP Address** field.
- 5 Enter the IntraSwitch 5324's read community string in the **Read Community String** field.
- 6 Enter the IntraSwitch 5324's write community string in the **Write Community String** field.
- 7 Click **Apply**.

The read and write community strings for the IntraSwitch 5324 are configured.

## Configuring Device Identification Information

To help with identification, you can add certain details to the IntraSwitch 5324; such as, the device's name, location, and contact information.

To configure device identification information:

- 1 Do not select any item on the device image. (This selects the entire IntraSwitch 5324.)
- 2 Click **Identify**.

The Device Identification table appears, similar to Figure 4-4.

The screenshot shows a web interface titled "Device Identification" for the device "192.203.54.64: sysName not set". The interface contains a table with the following fields and values:

Identification	
Bridge Address	00:00:94:85:C5:07
ObjectID	1.3.6.1.4.1.298.2.2.11
Description	Asante IntraSwitch 5324
Name	sysName not set
Location	sysLocation not set
Contact	sysContact not set
Up Time	4d 8h 5m 12s
Configuration	
Ports	28

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

Figure 4-4 Device Identification table

- 3 Click once in the field to be edited.

For a description of each field, see “Identify” on page 5-2.

▲ **Important:** Only those fields that are colored white 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.

## Updating the Device Page

The files for the IntraSwitch 5324 Personality Module are stored within the IntraSpection Application Server's database.

Occasionally, these files should be updated from the Device Page to ensure that you are viewing the device's latest information.

To update the Personality Module's Device Page:

- 1 Click **Validate**.  
The Device Page is updated with the latest information.  
After the Device Page is updated, the IntraSpection Map Manager Page appears.
  - 2 Click **AutoDiscovery** to rediscover the network map containing the IntraSwitch 5324.
- Δ **Note:** See "Accessing the Device Page" on page 3-1 for instructions on discovering devices with AutoDiscovery.

## Viewing SNMP Agent Information

You can view identification and status information about the IntraSwitch 5324's SNMP agent.

To view the IntraSwitch 5324's SNMP agent information:

- 1 Click once on the **Internal** port button on the IntraSwitch 5324's back panel image.
- 2 Click **Identify**.

The Device Identification table appears, similar to Figure 4-5.

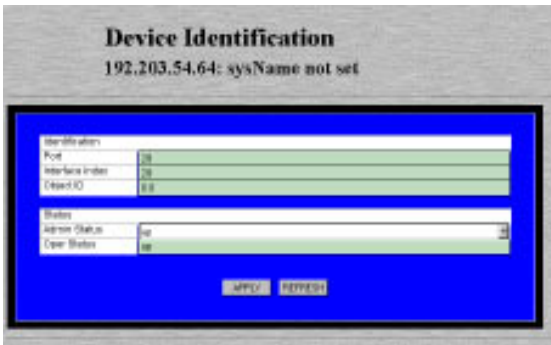


Figure 4-5 Device Identification table

The table displays identification information and status information for the IntraSwitch 5324's SNMP agent (identified as port **28**).

For a description of each field, see Table 5-3 "Identify Menu (SNMP Agent Level)" on page 5-3.

- ▲ **Important!** Do **NOT** change the **Admin State** to **down** (disables the IntraSwitch 5324's SNMP agent). This results in the loss of all SNMP and HTTP capabilities; in which case, you will have to manually re-enable port 28 via the Console port.

- △ **Note:** The above scenario pertains only to IntraSwitch 5324 units running 1.0 software. If you are running version 1.1 and attempt to change the Admin State, a "Bad Value!" error message is returned.

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

## Viewing Port Information

You can view identification and status information about each of the IntraSwitch 5324's ports (including the 10/100 port and the two MII expansion ports).

To view port information:

- 1 Click once on the port for which you want to view information.
- 2 Click **Identify**.

The Device Identification table appears, similar to Figure 4-6.

**Device Identification**  
192.203.54.64: sysName not set

Identification	
Port	g
Interface Index	g
Object ID	0.0

Status	
Admin Status	up
Oper Status	up

Figure 4-6 Device Identification table

The table displays identification information and status information for the selected port.

For a description of each field, see Table 5-4 “Identify Menu (Port Level)” on page 5-4.

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

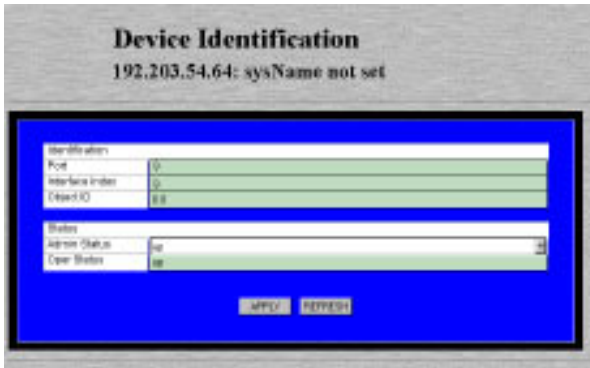
## Enabling or Disabling a Port

You can enable or disable any of the IntraSwitch 5324's 24 10Base-T ports, 10/100 port or MII expansion ports.

To enable or disable a port:

- 1 Click once on the port to be enabled or disabled.
- 2 Click **Identify**.

The Device Identification table appears, similar to Figure 4-7.



The screenshot shows a web interface titled "Device Identification" with the IP address "192.203.54.64" and "sysName not set". Below the title is a table with two sections: "Identify status" and "Status".

Identify status	
Port	1/1
Interface Index	2/2
Device ID	1/1

Status	
Admin Status	up
Oper Status	up

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

Figure 4-7 Device Identification table

For a description of each field, see Table 5-4 “Identify Menu (Port Level)” on page 5-4.

- 3 Open the **Admin Status** drop-down menu and select **down**.
- 4 Click **Apply**.  
The port is enabled (or disabled).
- 5 Click **Refresh** to view updated information.

## Viewing Statistics

There are two groups of statistics with the IntraSwitch 5324 Personality Module:

- Counter Statistics (such as broadcast packets, fragments, and collisions)
- Packet Statistics

Both groups of statistics can be viewed at the following levels:

- Port-level (ports 1 – 24, 10/100 port [port 25], or the MII expansion ports [26 and 27])
- SNMP agent (internal port)

This section describes how to view counter and packet statistics in both table and graph formats.

### Viewing Counter Statistics (Table Format)

To view counter statistics in a table format:

- 1 Select a port for which statistics are to be gathered by clicking on it once on the front-panel image.

▲ **Important:** To view statistics for the SNMP agent, click once on the **Internal Port** button on the back-panel image.

- 2 Click **Table**.

Table statistics appear for the SNMP agent or selected port, similar to Figure 4-8.

**Port Statistics Table**  
192.203.54.64: sysName not set  
Port: 2

Sampling interval (seconds): 2    RESET

Object	Curr	Peak	Avg	Total
etherStatsOctets	1,978	3,883	1,024	3,428,614,026
etherStatsPkts	8	0	8	427,576
etherStatsBroadcastPkts	8	0	8	288
etherStatsCollisions	8	0	8	187,048
etherStatsCrcAlignErrors	8	0	8	8
etherStatsFramesLostPkts	8	0	8	8
etherStatsErrorsByPkts	8	0	8	8
etherStatsFramesByPkts	8	0	8	8
etherStatsFramesByPkts	8	0	8	8
etherStatsJabbers	8	0	8	8
etherStatsJabbers	8	0	8	8
etherStatsCollisions	8	0	8	28

Resetting

Figure 4-8 Counter Statistics (table format)

For a description of each object, see “Objects” on page 5-5.

- 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.

## Viewing Counter Statistics (Graph Format)

To view counter statistics in a graph format:

- 1 Select a port for which statistics are to be gathered by clicking on it once on the front-panel image.
  - ▲ **Important:** To view statistics for the SNMP agent, click once on the **Internal Port** button on the back-panel image.
- 2 Click **Graph**.

The Graph Statistics page appears for the SNMP agent or selected port, similar to Figure 4-9.

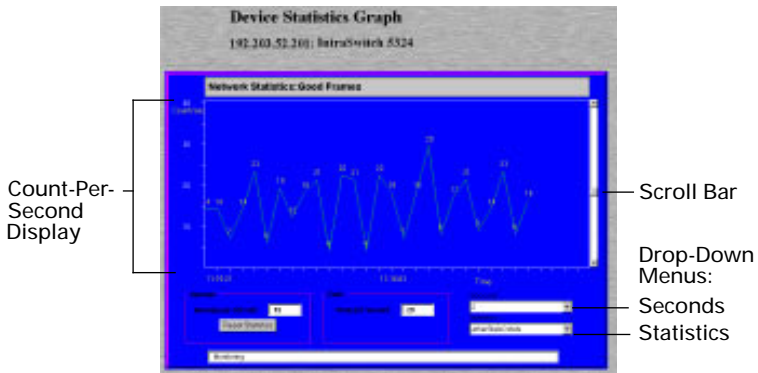


Figure 4-9 Counter Statistics (graph format)

- 3 Open the **Statistics** drop-down menu and select the object to be monitored.  
For a description of each object, see “Objects” on page 5-5.
- 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.

## Viewing Packet Statistics (Table Format)

To view packet statistics in a table format:

- 1 Select a port for which statistics are to be gathered by clicking on it once on the front-panel image.

▲ **Important:** To view statistics for the SNMP agent, click once on the **Internal Port** button on the back-panel image.

- 2 Click **PktTable**.

Packet statistics appear for the SNMP agent or a selected port, similar to Figure 4-10.

Object	Curr	Peak	Avg	Total
ethernetPkts900Octets	25	28	17	2,270,214
ethernetPkts270Octets	8	8	0	0
ethernetPkts128to230Octets	8	8	0	5,439
ethernetPkts250to511Octets	8	8	0	14
ethernetPkts512to1023Octets	8	8	0	38
ethernetPkts1024to1518Octets	8	8	0	0
ethernetPkts1024to1518Octets	8	8	0	4,261
Nonvolatile Octets	2,028	2,708	1,371	347,235,881

Figure 4-10 Packet Statistics (table format)

For a description of each object, see “Objects” on page 5-8.

- 3 Open the **Sampling Interval** drop-down menu and select the number of seconds to poll for statistics. Statistics are 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.

## Viewing Packet Statistics (Graph Format)

To view packet statistics in a graph format:

- 1 Select a port for which statistics are to be gathered by clicking on it once on the front-panel image.

▲ **Important:** To view statistics for the SNMP agent, click once on the **Internal Port** button on the back-panel image.

- 2 Click **PktGraph**.

Packet Statistics appears for the selected port, similar to Figure 4-11.

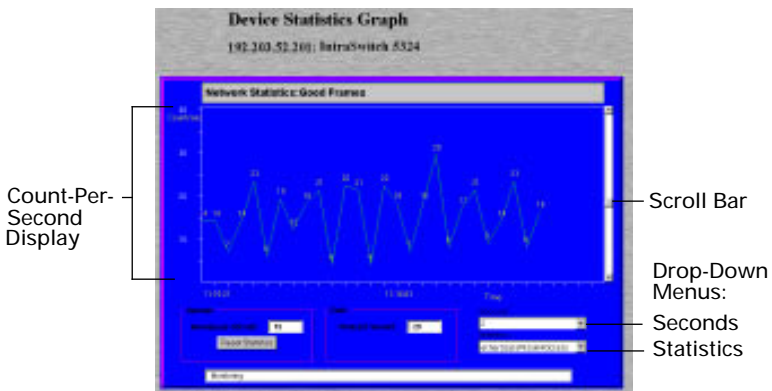


Figure 4-11 Packet Statistics (graph format)

- 3 Open the **Statistics** drop-down menu and select the object to be monitored.  
For a description of each object, see “Objects” on page 5-8.
- 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).

## Management

- 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.

# 5

## Menus

This chapter describes each management menu on the IntraSwitch 5324 Personality Module's Device Page.

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

Table 5-1 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 5-2.
<b>Identify</b>	Allows you to view and configure device identification information, SNMP agent information, and port information. Also allows you to enable or disable a port. See "Identify" on page 5-2.
<b>Validate</b>	Updates the Device Page with the latest information from the IntraSpection Application Server database. See "Validate" on page 5-5.
<b>Statistics</b>	Title for the submenus listed below it; this menu cannot be selected. See "Statistics" on page 5-5.
<b>Table</b>	Allows you to view real-time <b>counter</b> statistics, in a table format, on the IntraSwitch 5324's SNMP agent or a selected port. See "Table" on page 5-5.
<b>Graph</b>	Allows you to view real-time <b>counter</b> statistics, in a graph format, on the IntraSwitch 5324's SNMP agent or a selected port. See "Graph" on page 5-7.
<b>PktTable</b>	Allows you to view real-time <b>packet</b> statistics, in a table format, on the IntraSwitch 5324's SNMP agent or a selected port. See "PktTable" on page 5-8.
<b>PktGraph</b>	Allows you to view real-time <b>packet</b> statistics, in a graph format, on the IntraSwitch 5324's SNMP agent or a selected port. See "PktGraph" on page 5-9.

## Configuration

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

### Identify

This menu provides identification information on the device, the device's SNMP agent, or a specific port.

Table 5-2 describes each field in the Identify menu at the device level; Table 5-3 describes each field at the SNMP agent (internal port) level; and Table 5-4 describes each field at the port level.

- Δ **Note:** For instructions on using this menu, see “Configuring Device Identification Information” on page 4-4, “Viewing SNMP Agent Information” on page 4-6, “Viewing Port Information” on page 4-7 or “Enabling or Disabling a Port” on page 4-8.

Table 5-2 Identify Menu (Device Level)

Field	Description
Bridge 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. <b>Note:</b> A maximum of 254 characters (including spaces) is allowed.
Contact	Configurable field; assigns the 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 (in days/hours/minutes/seconds) that the device has been operational since the last time it was off-line.
Ports	Read-only field; displays the number of ports present on the device.

Table 5-3 Identify Menu (SNMP Agent Level)

Field	Description
<b>Port</b>	Read-only field; displays the port number assigned to the IntraSwitch 5324's SNMP agent. This field is always <b>28</b> .
<b>Interface Index</b>	Read-only field; displays the value of the interface corresponding to this port.
<b>ObjectID</b>	Read-only field; displays the object instance unique to this port, if this port has the same Interface Index as another port on this device. If this port does not have the same Interface Index as another port on this device, the value is <b>0.0</b> .
<b>Admin Status</b>	Read-only field; displays the desired operating status of the IntraSwitch 5324's SNMP agent. <input type="checkbox"/> <b>up</b> — the SNMP agent is currently up and running (ready to pass packets). <input type="checkbox"/> <b>down</b> — disables the SNMP agent (IntraSwitch 5324 version 1.0 software only). <b>▲ Important:</b> Do NOT change the Admin State to <b>down</b> . This results in the loss of all SNMP and HTTP capabilities; in which case, you will have to manually re-enable port 28 via the Console port. The above scenario pertains only to IntraSwitch 5324 units running 1.0 software. If you are running version 1.1 software and attempt to change the Admin State, a "Bad Value!" error message is returned. <input type="checkbox"/> <b>testing</b> — the SNMP agent is in a test mode; no operational packets can be passed.
<b>Oper Status</b>	Read-only field; displays the SNMP agent's current operating status. <input type="checkbox"/> <b>up</b> — the SNMP agent is ready to pass packets. <input type="checkbox"/> <b>down</b> — the SNMP agent is not operational. <input type="checkbox"/> <b>testing</b> — the SNMP agent is in a test mode; no operational packets can be passed.

Table 5-4 Identify Menu (Port Level)

Field	Description
<b>Port</b>	Read-only field; displays the number of the selected port.
<b>Interface Index</b>	Read-only field; displays the value of the interface corresponding to this port.
<b>ObjectID</b>	<p>Read-only field; displays the object instance unique to this port, if this port has the same Interface Index as another port on this device.</p> <p>If this port does not have the same Interface Index as another port on this device, the value is <b>0.0</b>.</p>
<b>Admin Status</b>	<p>Configurable field; disables, enables, or performs a test on the selected port.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>up</b> — enables the selected port.</li> <li><input type="checkbox"/> <b>down</b> — disables the selected port.</li> <li><input type="checkbox"/> <b>testing</b> — initiates a test on the port; no operational packets can be passed.</li> </ul>
<b>Oper Status</b>	<p>Read-only field; display's the selected port's current operating status.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>up</b> — the selected port is enabled and can pass packets.</li> <li><input type="checkbox"/> <b>down</b> — the selected port is disabled.</li> <li><input type="checkbox"/> <b>testing</b> — the selected port is in a test mode; no operational packets can be passed.</li> </ul>

## 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 4-5.

## Statistics

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

## Table

This menu provides real-time **counter** statistics, in a table format, on the IntraSwitch 5324's SNMP agent or a selected port.

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

- △ **Note:** For instructions on using this menu, see "Viewing Counter Statistics (Table Format)" on page 4-9.

Table 5-5 Table Menu

Field	Description
Sampling Interval	Drop-down menu; allows you to set the amount of time (in seconds) that the port or SNMP agent (internal port) is polled for information.
Reset	Button; resets the counters to zero in the table.
Objects	<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>etherStatsOctets</b> — the total number of octets of data (including those in bad packets) received on the network (excluding framing bits but including FCS octets).</li> <li><input type="checkbox"/> <b>etherStatsPkts</b> — the total number of packets (including error packets) received.</li> <li><input type="checkbox"/> <b>etherStatsBroadcastPkts</b> — the total number of good packets received that were directed to the broadcast address.</li> <li><input type="checkbox"/> <b>etherStatsMulticastPkts</b> — the total number of good packets received that were directed to a multicast address. Note that this number does not include packets directed to the broadcast address.</li> </ul>

Field	Description
	<ul style="list-style-type: none"><li>❑ <b>etherStatsCRCAlignErrors</b> — the total number of packets received that had a length (excluding framing bits, but including FCS octets) of between 64 and 1518 octets, inclusive, but were not an integral number of octets in length or had a bad Frame Check Sequence (FCS).</li><li>❑ <b>etherStatsUndersizePkts</b> — the total number of packets received that were less than 64 octets long (excluding framing bits, but including FCS octets) and were otherwise well formed.</li><li>❑ <b>etherStatsOversizePkts</b> — the total number of packets received that were longer than 1518 octets (excluding framing bits, but including FCS octets) and were otherwise well formed.</li><li>❑ <b>etherStatsFragments</b> — the number of frames received that were less than the minimum permitted frame size and have a bad FCS or alignment error.</li><li>❑ <b>etherStatsJabbers</b> — the total number of packets received that were longer than 1518 octets (excluding framing bits, but including FCS octets), and were not an integral number of octets in length or had a bad Frame Check Sequence (FCS).</li><li>❑ <b>etherStatsCollisions</b> — the total number of collisions.</li></ul>

## Graph

This menu provides real-time **counter** statistics, in a graph format, on a selected port.

Table 5-6 describes each field in the Graph menu.

- △ **Note:** For instructions on using this menu, see “Viewing Counter Statistics (Graph Format)” on page 4-10.

Table 5-6 Graph Menu

Field	Description
<b>Seconds</b>	Drop-down menu; specifies the amount of time (in seconds) that the port or SNMP agent (internal 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 5-5.
<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.
<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 5-5.

## PktTable

This menu provides real-time **packet** statistics, in a table format, on the IntraSwitch 5324's SNMP agent or a selected port.

Table 5-7 describes each field in the PktTable menu.

- △ **Note:** For instructions on using this menu, see “Viewing Packet Statistics (Table Format)” on page 4-12.

Table 5-7 PktTable Menu

Field	Description
Sampling Interval	Drop-down menu; allows you to set the amount of time (in seconds) that the port or SNMP agent (internal port) is polled for information.
Reset	Button; resets the counters to zero in the table.
Objects	<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>etherStatsPkts64Octets</b> — the total number of packets (including error packets) received that were 64 octets in length (excluding framing bits but including FCS octets).</li> <li><input type="checkbox"/> <b>etherStatsPkts65to127Octets</b> — the total number of packets (including error packets) received that were between 65 and 127 octets in length inclusive (excluding framing bits but including FCS octets).</li> <li><input type="checkbox"/> <b>etherStatsPkts128to255Octets</b> — the total number of packets (including error packets) received that were between 128 and 255 octets in length inclusive (excluding framing bits but including FCS octets).</li> <li><input type="checkbox"/> <b>etherStatsPkts256to511Octets</b> — the total number of packets (including error packets) received that were between 256 and 511 octets in length inclusive (excluding framing bits but including FCS octets).</li> <li><input type="checkbox"/> <b>etherStatsPkts512to1023Octets</b> — the total number of packets (including error packets) received that were between 512 and 1023 octets in length inclusive (excluding framing bits but including FCS octets).</li> <li><input type="checkbox"/> <b>etherStatsPkts1024to1518Octets</b> — the total number of packets (including error packets) received that were between 1024 and 1518 octets in length inclusive (excluding framing bits but including FCS octets).</li> </ul>

## PktGraph

This menu provides real-time **packet** statistics, in a graph format, on the IntraSwitch 5324's SNMP agent or a selected port.

Table 5-8 describes each field in the PktGraph menu.

- △ **Note:** For instructions on using this menu, see “Viewing Packet Statistics (Graph Format)” on page 4-13.

Table 5-8 PktGraph Menu

Field	Description
<b>Seconds</b>	Drop-down menu; specifies the amount of time (in seconds) that the port or SNMP agent (internal 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 5-8.
<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.
<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 5-8.





# 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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