

# MetaConsole Client

## User's Guide

version 1.32

FOR PANASONIC DEVICES



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## Overview

A *management console* is a single tool used to manage entire networks. It is a framework within which device- or service-specific management modules can share a user interface, alarm monitoring, and other basic functions. Popular management consoles include Microsoft Management Console (MMC), HP OpenView, Tivoli Enterprise, and CA Unicenter.

MetaConsole technology enables development of a single client module that works with multiple management consoles and multiple network protocols on multiple platforms.

This guide describes how the MetaConsole client manages Panasonic devices.

### MetaConsole Documentation

For any type of device you want to manage using MetaConsole, there are two relevant documents in the suite of MetaConsole documentation:

- A *getting started* guide describing MetaConsole's components and explaining the requirements, installation steps, and other details specific to the management environment
- A *client user's guide* describing how the MetaConsole client manages the particular type of device

You are reading the client user's guide for Panasonic devices. Chapter 1 introduces the client, and Chapters 2 and 3 contain instructions for using the client to manage Panasonic enterprise MIB devices.

## Chapter 1. About the Client

The MetaConsole client provides device management for Panasonic enterprise MIB devices. Its main functions are

- Searching the network to discover supported devices
- Maintaining a list of devices
- Reporting status and alerts for each device
- Allowing you to view and change device settings
- Allowing you to view network settings

The client window has two panes. You use the *navigation tree* in the *navigation pane* on the left to select the information you want displayed in the *details pane* on the right.

The navigation tree includes

- A **Configuration** node for configuring high-level MetaConsole settings  
For information, see the getting started guide for your console.

- A node for each MetaConsole server

Each MetaConsole server node contains

- A **Configuration** node for information related to that MetaConsole Server

For information, see the getting started guide for your console.

- A node for each type of device that MetaConsole manages.

The **Panasonic Devices** node contains

- A **Configuration** node for configuring discovery and alarms related to Panasonic devices

For details, see *Configuration* below.

- A node for each Panasonic device

For details, see *Device Node* on page 3.

### Configuration

The **Configuration** node for Panasonic devices includes

- **Help** – online help for the client and service provider
- **Discovery Ranges** – IP address ranges within which devices are to be discovered
- **Blocked Ranges** – IP address ranges to be excluded from discovery
- **Manual Discovery** – IP addresses of manually added devices
- **Alarm Management** – events that are to trigger MetaConsole alarms
- **Rates and Timeouts** – refresh rate, poll rate, and timeout settings

## Device Node

The node for each device includes

- **Write Community** – the device's Write Community string
- **Status** – a description of the device's status, including active alerts and instructions for fixing problems
- **Settings** – the device's name, location, and contact person, and settings for various device features
- **Components** – hardware components and device features, including disk size, amount of memory, resolution, and print speed
- **Printing** – information about cassettes, output trays, device interpreters and print data channels, color settings, and marking technology
- **Scan** – information about feeders, sensor technology, output formats and data channels
- **Fax** – fax sending and receiving capabilities, including resolution and speed
- **Maintenance** – commands to directly affect the device by taking it offline, resetting it, printing a test page, and so on
- **Networking** – settings specific to AppleTalk, TCP/IP, and NetWare; information about the network interface; and details about the use of IP, TCP, UDP, ICMP, and SNMP protocols
- **Host Utility** – the embedded application on the device, if present

## Chapter 2. Configuring the Client

This chapter presents procedures for configuring the client's behavior regarding Panasonic devices managed through a particular MetaConsole server. For information on higher-level configuration — configuration of MetaConsole servers generally and of a particular MetaConsole server's treatment of *all* devices — see the getting started guide for your console.

At this level, you can configure

- Device discovery
- The events that trigger alarms
- Rates and timeouts

The Panasonic service provider's configuration settings are maintained by the MetaConsole server and are not client specific. All clients use the same values; if any client changes a particular setting, the change affects all clients that use that setting.

### Specifying IP Address Ranges to Include in Device Discovery

For each MetaConsole server, you specify ranges of IP addresses for automatic device discovery.

**To add a range of IP addresses for device discovery:**

1. In the navigation pane, expand the **Panasonic Devices** node and the **Configuration** node, and click **Discovery Ranges**.
2. Under **Add New Discovery Range**, in the **Start Address** boxes, type the lowest IP address in the desired range.
3. In the **End Address** boxes, type the highest IP address in the desired range.
4. Click **Add**.

**To remove a range of IP addresses:**

1. In the navigation pane, expand the **Panasonic Devices** node and the **Configuration** node, and click **Discovery Ranges**.
2. Under **Auto Discovery Range List**, click the start address or end address of the range to be removed.
3. Click **Remove**.

## Specifying IP Address Ranges to Exclude from Device Discovery

If a range of addresses is not specified as described above under *Specifying IP Address Ranges to Include in Device Discovery*, MetaConsole does not discover devices with IP addresses in that range. So in general, it is not necessary to explicitly exclude a range of addresses. However, excluding a range can be useful. For example, if you want MetaConsole to discover devices between 10.0.0.40 and 10.0.0.80 *except for* 10.0.0.52 through 10.0.0.56, you can include the large range but exclude the small range.

### To exclude a range of addresses from device discovery:

1. In the navigation pane, expand the **Panasonic Devices** node and the **Configuration** node, and click **Blocked Ranges**.
2. Under **Add New Blocked Range**, in the **Start Address** boxes, type the lowest IP address in the desired range.
3. In the **End Address** boxes, type the highest IP address in the desired range.
4. Click **Add**.

### To remove a range from the list of excluded ranges:

1. In the navigation pane, expand the **Panasonic Devices** node and the **Configuration** node, and click **Blocked Ranges**.
2. Under **Blocked Discovery Range List**, click the start address or end address of the range to be removed.
3. Click **Remove**.

## Manually Adding or Removing Individual Devices

In addition to specifying address ranges for automatic device discovery, you can manually add addresses to the list of discovered devices.

### To manually add a device to the device list:

1. In the navigation pane, expand the **Panasonic Devices** node and the **Configuration** node, and click **Manual Discovery**.
2. In the **Device Address** boxes, type the device's IP address.
3. Click **Add**.

### To delete a manually added device from the device list:

1. In the navigation pane, expand the **Panasonic Devices** node and the **Configuration** node, and click **Manual Discovery**.
2. Under **Manual Device List**, click the IP address you want to delete.
3. Click **Remove**.

### To delete all manually added devices from the device list:

1. In the navigation pane, expand the **Panasonic Devices** node and the **Configuration** node, and click **Manual Discovery**.
2. Click **Remove All**.

## Specifying Events to Raise Alarms

MetaConsole enables you to select events that will result in alarms. An event is just a change in information of the selected type. For details about the form that the actual alarm takes, see the getting started guide for your console.

### To select events that will raise alarms:

1. In the navigation pane, expand the **Panasonic Devices** node and the **Configuration** node, and click **Alarm Management**.
2. Select the check box for each type of information you want alarms generated for.
3. Click **Apply**.
4. Set an alarm poll rate for Panasonic devices, if you have never done so. (See *Specifying Rates and Timeouts*, below.)

Alarms are logged on a MetaConsole server by a MetaConsole client connected to that server. An event is logged only if a MetaConsole client is connected to the MetaConsole server and requesting the monitoring of that type of event. When a client terminates its session with a MetaConsole server, the MetaConsole server stops any monitoring it was doing on behalf of that client.

## Specifying Rates and Timeouts

**Caution:** To initiate alarm reporting, you must set an alarm poll rate. Even though a default rate is displayed on the **Rates and Timeouts** page when the service provider is installed, alarm polling does not take place until you click **Apply**.

### To set rate and timeout values:

1. In the navigation pane, expand the **Panasonic Devices** node and the **Configuration** node, and click **Rates and Timeouts**.
2. In the **Discovery Refresh Rate** list, click how often the client should refresh the navigation pane's list of discovered devices.
3. In the **Device Timeout** list, click how long the client should wait before considering a device stale and removing it from the list in the navigation pane.
4. In the **Alarm Poll Rate** list, click how often the client should poll for alarms.

Greater numbers of devices require a greater value for **Alarm Poll Rate**, due to the increased network traffic.

5. Click **Apply**.

## Chapter 3. Using the Client to Manage Devices

This chapter presents procedures for displaying and changing information about devices and network protocols. With the MetaConsole client, you can

- Display and change information about device status and features
- Display and change information about network protocols used for communication with devices
- Send maintenance commands to devices

### Setting the Write Community String

The Write Community string is used while writing SNMP data to a device. You must set it correctly in order to change any device information.

**To configure the device's Write Community string:**

1. In the navigation pane, expand the device's node and click **Write Community**.
2. In the **Write Community** box, type the string.
3. Click **Apply**.

### Displaying Status and Errors

**To display a device's status and instructions for fixing problems:**

→ In the navigation pane, expand the device's node and click **Status**.

The details pane reports the contact person's name, along with detailed status of device components.

### Displaying the Device Name and Description

**To view a device's name, model, and location, and the contact person's name:**

→ In the navigation pane, expand the device's node and click **Settings**.

### Changing the Print Settings

**Note:** Which settings are displayed and can be changed depends on the specific device type.

**To change the print settings for a device:**

1. In the navigation pane, expand the device's node and click **Settings**.
2. Under **Power Save Settings**, enter new values as desired.
  - **Power Save Level** – Click **Auto Power Off** or **Sleep** to enable or **None** to disable the power saving feature.
  - **Power Save Time** – Click the number of minutes to wait before entering power save mode.
  - **Auto Power Off Time** – Click the number of minutes to wait before automatically powering off the device.

## Displaying Hardware Features

**To display a device's hardware features:**

→ In the navigation pane, expand the device's node and click **Components**.

The details pane displays information including the device's disk size, amount of memory, print resolution, print speed, and localization language and country.

## Displaying Cassette Information

**To display information about a device's cassettes:**

→ In the navigation pane, expand the device's node and the **Printing** node, and click **Cassettes**.

The details pane displays each cassette's name, paper size, approximate number of sheets contained, paper type, and capacity.

## Displaying Tray Information

**To display information about a device's output trays:**

→ In the navigation pane, expand the device's node and the **Printing** node, and click **Trays**.

The details pane displays each tray's name, size, and usage (tray type, such as fixed bin).

## Displaying Printing Interface Information

**To display information about the printing interface:**

→ In the navigation pane, expand the device's node and the **Printing** node, and click **Interface**.

The details pane displays the language used by each device interpreter and details about each print data channel.

## Displaying Consumable Information

**To display information about a device's marker technology:**

→ In the navigation pane, expand the device's node and the **Printing** node, and click **Consumables**.

The details pane displays information about the device's marking technology.

## Displaying Scanning Feeder Information

**Note:** Not all devices support scanning.

**To display information about scanning feeders:**

→ In the navigation pane, expand the device's node and the **Scan** node, and click **Feeders**.

The details pane displays each feeder's name, capacity, level, features, and status.

## Displaying Scanning Sensor Information

**Note:** Not all devices support scanning.

**To display information about the scanning sensor:**

- In the navigation pane, expand the device's node and the **Scan** node, and click **Sensor**.

The details pane displays information about the sensor technology, including features and settings.

**Displaying Scanning Interface Information**

**Note:** Not all devices support scanning.

**To display information about the scanning interface:**

- In the navigation pane, expand the device's node and the **Scan** node, and click **Interface**.

The details pane displays information about output formats and data channels.

**Displaying Fax Capabilities**

**Note:** Not all devices support faxing.

**To display information about fax capabilities:**

- In the navigation pane, expand the device's node and the **Fax** node, and click **Capabilities**.

The details pane displays resolution, paper size, and Image Compression Type for sending and receiving faxes.

**Displaying Fax Interface Information**

**Note:** Not all devices support faxing.

**To display information about the faxing interface:**

- In the navigation pane, expand the device's node and the **Fax** node, and click **Interface**.

The details pane displays, for each fax channel, the type, maximum send and receive speeds, Number / Addresses, and status.

**Displaying AppleTalk Information****To display information about AppleTalk-related properties for a device:**

- In the navigation pane, expand the device's node and the **Network** node, and click **AppleTalk**.

The details pane displays the name of the print application, frame type and the zone of the print application.

## Displaying TCP/IP Information

**To display TCP/IP-related properties for a device:**

→ In the navigation pane, expand the device's node and the **Network** node, and click **TCP/IP**.

The details pane displays the device's IP address, subnet mask, the default gateway address and the DHCP server's IP address.

## Displaying NetWare Information

**To display NetWare-related properties for a device:**

→ In the navigation pane, expand the device's node and the **Network** node, and click **NetWare**.

The details pane displays the device's information about Netware.

## Displaying Network Interface Information

**To display information about the network interface:**

→ In the navigation pane, expand the device's node and the **Network** node, and click **Interface**.

The details pane displays facts about the network interface, including network topology and the device's physical address.

## Displaying Protocol Diagnostic Details

For diagnosing network problems, the client provides details about network settings and activities.

**To display diagnostic details:**

→ In the navigation pane, expand the device's node, the **Network** node, and the **Protocol Diagnostics** node, and click the node for the desired protocol.

The details pane displays statistics about network traffic.

## Sending Maintenance Commands to the Device

The client assists you with these maintenance operations. (Not all devices support all maintenance operations.)

- Taking the device offline or bringing it online
- Resetting the network controller
- Running the device's self-diagnostic routines
- Returning device settings to factory default values

- Initiating a test print page

**To change the online/offline status:**

1. In the navigation pane, expand the device's node and click **Maintenance**.
2. Under **Select Action**, click the **Online/Offline** option.
3. Under **Online/Offline**, select **Online**, **Offline**, or **Offline at End of Job**.
4. Click **OK**.

**To initiate a test print page:**

1. In the navigation pane, expand the device's node and click **Maintenance**.
2. Under **Select Action**, click the **Test Print** option.
3. Under **Test Print**, select content for the test print page.
4. Click **OK**.

## Running the Device's Host Utility

**Note:** Not all Panasonic devices support launching embedded Web utility.

**To use the device's embedded Web utility:**

1. In the navigation pane, expand the device's node, and click **Host Utility**.
2. Click **LAUNCH**.

**Note:** An error occurs in any of these cases:

- The specific device does not support this feature.
- The host utility is not properly installed and configured.
- The host's IP address is not reachable from the MetaConsole client.
- The **Network Address** box does not contain a valid IP Address or host name.