

Central Monitoring by Vital Sign Monitor

Vital Sign Monitor (VSM) applies to the center monitoring station where multiple GV-systems are being monitored. When alert events occur in a GV-system, VSM will receive alert text messages, computer alarms, and/or output alarms. The events that trigger alerts and notifications are: (1) Video Lost, (2) I/O Module Lost, (3) I/O Triggered, (4) Connection Lost, (5) Surveillance System Abnormality, (6) Intruder, Missing Object, (7) Unattended Object, (8) POS Loss Prevention and (9) Disk Full in a GV-system.

Installing VSM

The VSM application comes with the system software. Before the installation, make sure your PC meets the following minimum requirements:

OS	Windows 2000, Windows XP, Server 2003
CPU	Pentium 4, 2.4G
Memory	512 MB RAM
Hard Disk	60GB
VGA	NVIDIA GeForce II 32MB at 1024 x 768 resolution
Network	TCP/IP

To install VSM, follow these steps:

1. Insert the installation CD to your PC. It will run automatically and pop up a window.
2. Select the item of Install Version 7.0 system.
3. Select Dispatch Server, and follow the on screen instruction. Refer to Figure 1-15.

Note: The VSM application is provided with a USB Keypro. Make sure the Keypro is tightly connected to the PC.

The VSM Window

After the program installation is completed, start the application from the Start Menu to display the following window:

Note: Events will be listed only when VSM receives signals from subscribers.

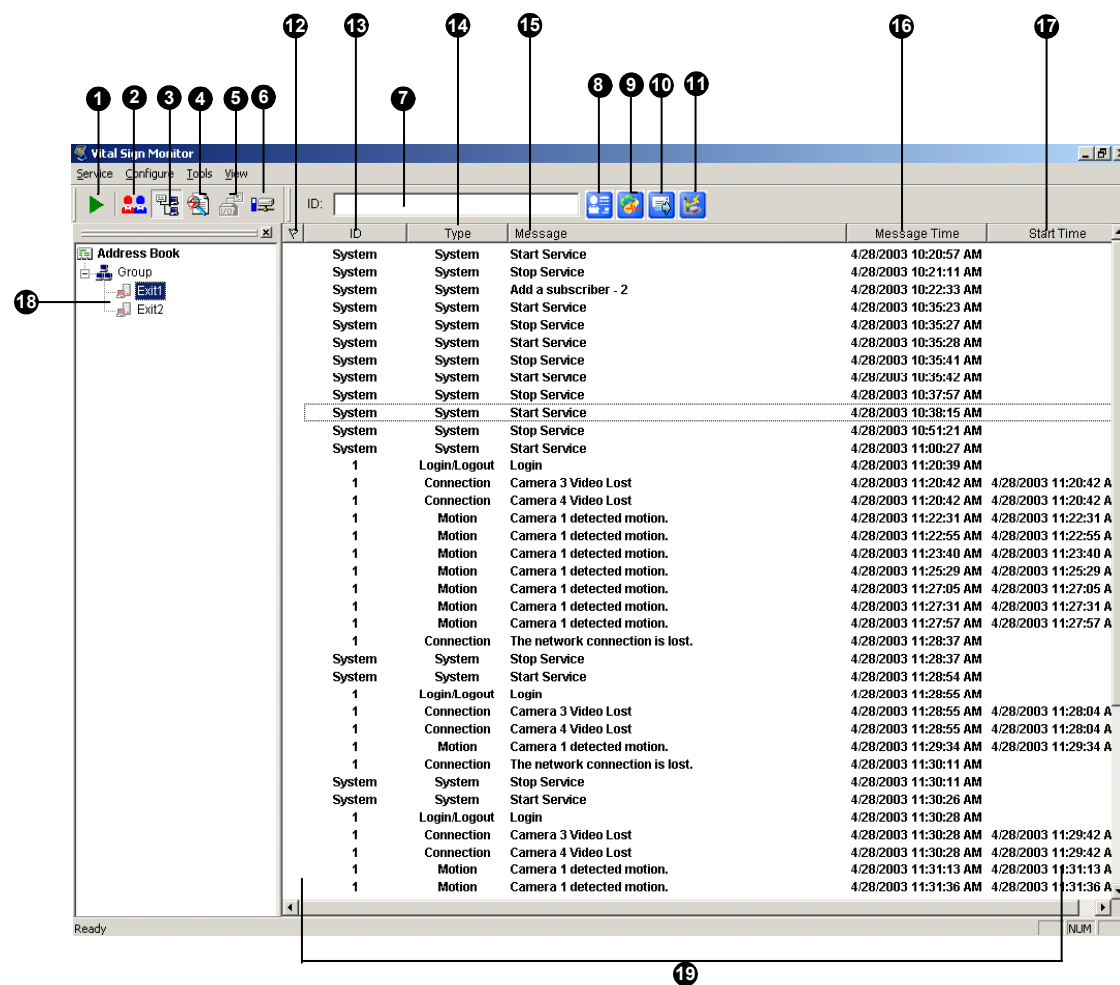


Figure 11-1 The VSM window

The controls in the VSM window:

No.	Name	Description
1	Start/Stop Service	Click to start or stop the VSM service.
2	Account	Click to display the Address Book window.
3	Show/Hide Subscriber List	Click to show and hide Subscriber List.
4	View Event Log	Click to launch Event Log Browser.
5	Force Output	Click to activate manually output devices to alert the VSM operator.

6	View Subscriber Storage Information	Click to see subscriber's storage information.
7	ID	Enter an ID for further search.
8	View Subscriber Address Book	Enter an ID, and then click the button to view the subscriber's address book.
9	View Subscriber Status	Enter an ID, and then click the button to see the subscriber's status.
10	Send Short Message	Click to send SMS to subscribers.
11	Send E-Mail	Click to send e-mails to subscribers.
12	Flag	Click this column to mark and/or unmark an event.
13	ID	This column displays the subscriber's ID.
14	Type	This column displays the event types, including System, Connection, Login/Logout, Motion, Trigger, and Alarm.
15	Message	This column displays the related information of subscribers' sites.
16	Message Time	The VSM's time when receiving the event message.
17	Start Time	The subscriber's time when sending out the event message.
18	Folder List	The list displays all created groups and subscribers. Right clicking any subscriber can call up a menu to select the control No. 7, 8, 9 and/or 10.
19	Event List	The window displays a list of events occurred.

A list of Types and Messages will be displayed on VSM:

Type	Message
Motion	Camera xx detected Motion.
Trigger	Module xx-Input xx Triggered; Module xx-Input xx Trigger Resume.
Connection	Camera xx Video Lost; Video Signal of Camera xx has resumed; Module xx Lost; Module xx has resumed to normal.
Alarm	There isn't enough space for recording; Connection Lost; Multicam Surveillance System has been closed; Status change of monitoring cameras: on: camera xx, off: camera xx; Keep Days (xx) Alarm of Video Log is lower than xx days; Schedule Start/Stop; An unexpected error occurred in Multicam Surveillance System (Error Code: 1 or 2); There is an intruder; Missing Object; Unattended Object; Alert Message of POS.
Login/Logout	Login; Logout.
System	Start/End Service; Fail to Start Service; Stop all camera monitoring; Start all camera monitoring.

Note: Error Code 1 indicates a codec error; Error Code 2 indicates that users can't write or record any data due to HD failure or user privilege.



Creating a Subscriber Account

Before initiating the VSM service, create one subscriber account at least. One VSM can serve as many as 1,000 subscribers at a time. To create a subscriber account, follow these steps:

1. Click the Account button on the toolbar to open the Address Book window.



Figure 11-2 The Address Book window

2. Click  the Add A Group button to create a group folder.
3. Click  the Add A Subscriber button to open the Subscriber Address Book dialog box.
The dialog box is the same with that in Center V2. For the account setup, refer to step 2 to 4 in *Creating a Subscriber Account* in Chapter 9, on page 188.
4. Click OK in the dialog box.
This adds the subscriber to the group folder created before. Returning to the VSM window, you will see a message: *Add a subscriber – xxx.* (Subscriber xxx has been added.)

Configuring VSM

On the window menu, click Configure to see the six options: (1) System Configure, (2) Password Setup, (3) Event Log Settings, (4) Notification, (5) Local I/O Device and (6) E-Mail Setup. These options are discussed in this section.

System Configuration

Click Configure on the window menu, and then select System Configure to open the following dialog box:

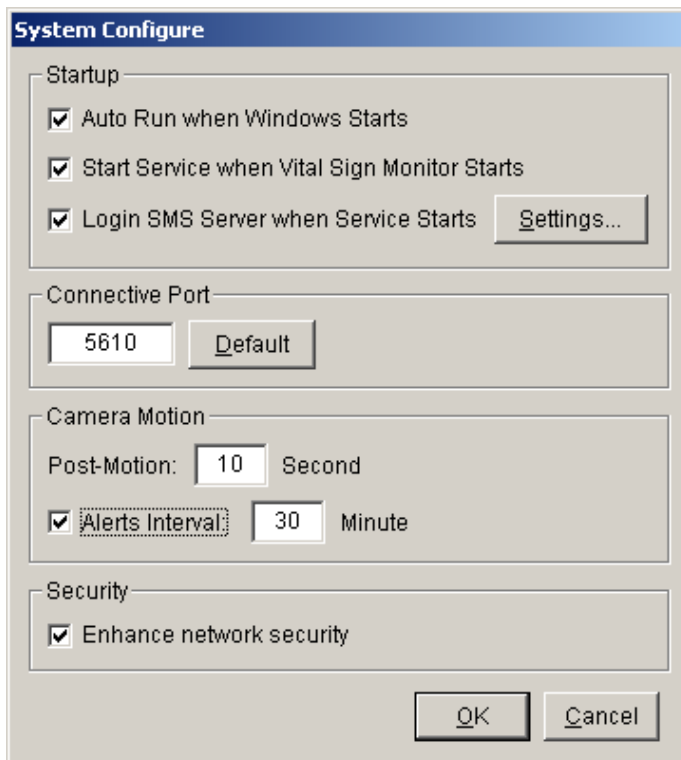


Figure 11-3 System Configure

[Startup]

- **Auto Run when Windows starts:** Automatically runs VSM at Windows startup.
- **Start Service when Vital Sign Monitor starts:** Automatically starts the service when VSM starts.
- **Login SMS Server when Service starts:** Logs in automatically the SMS server when the VSM service starts. You will be prompted to enter the related information of the SMS server.

[Connective Port] Sets the port to match that of the subscriber, or keep it as default.

[Camera Motion]

- **Post-Motion:** Specify the duration of the highlighted text for the incoming message upon motion detection.
- **Alerts Interval:** Enable and specify the interval between the incoming messages upon motion detection.

[Enhance network security] Enable to enhance Internet Security. Please notice when this feature is enabled, the subscribers using earlier version than version 7.0 cannot access the VSM any more.

Password Settings

You can set an administrator password to prevent others from changing your settings by accident. Click Configure and then select Password Setup.

While the password setting is enabled, you can still start monitoring but will not be allowed to change settings or stop monitoring. To change settings, click Service on the window menu and then select Login as Administrator. To re-start the password function, click Service and then select Logout Administrator.

Event Log Settings

Click Configure on the window menu, and select Event Log Settings to display the Event Log Settings dialog box. The settings are the same as those in Center V2. Refer to *Event Log Settings* in Chapter 9, on page 202.

Notification Settings

VSM can automatically activate the assigned computer alarm and output alarm to notify the operator while a SMS and e-mail message being sent out to subscribers, when any of these alert conditions occur: (1) Video Lost, (2) I/O Module Lost, (3) I/O Triggered, (3) Connection Lost, (4) Surveillance System Abnormality, (5) Intruder, (6) Missing Object, (7) Unattended Object, (8) POS Loss Prevention and (9) Disk Full.

For this application, click Configure on the window menu and select Notification to display the Alarm Settings window. The settings are the same as those in Center V2. Refer to *Notification Settings* in Chapter 9, on page 207.

Output Settings

To alert VSM with an output device, click Configure on the window menu and then select Local I/O Device. Currently the application only supports GV-IO devices with the maximum of 9 output modules. For the information on setup, refer to *Setting Up I/O Devices* in Chapter 2 on page 29.

E-Mail Settings

Click Configure on the window menu, and select E-Mail Setup to display the Mail Setup dialog box. The settings are the same as those in Center V2. Refer to *Setting Mailbox* in Chapter 9, on page 209.

Starting VSM

After subscriber accounts are created and VSM is configured, the VSM is ready to provide services. Clicking the Start Service button on the VSM window to receive signals from subscribers.

When you like to disconnect one subscriber, open the Address Book window, select the subscriber from the folder list, right click it to call up a menu, and select Disable to disable the connection. Select Enable to restart the connection again.

Connecting to VSM

To configure the GV-system in order to access the VSM remotely through a network connection, follow these steps:

1. Click the Network button, and select Connect to VSM(G). The following dialog box appears.

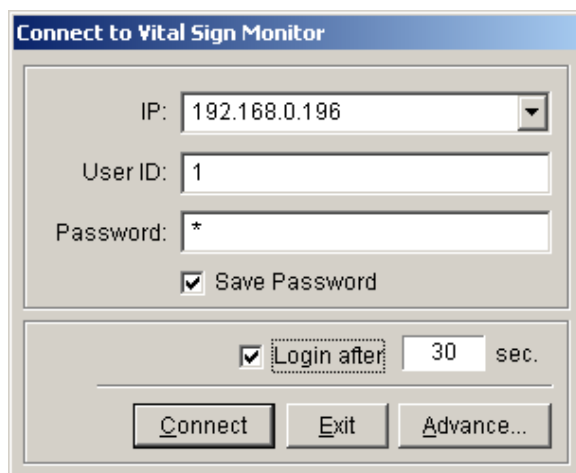


Figure 11-4 Connect to Vital Sign Monitor

2. Enter the IP address of the VSM, the user ID and password created in the VSM. See *Creating a Subscriber Account* on page 224.
3. Click the Advance button for further settings. See *Advance Settings for Subscription* below
4. Click the Connect button to connect to the VSM. Make sure that the VSM is also started for the connection.

Advanced Settings for Subscription

The advanced settings let you define the following:

- Connection mode (see *General Settings*)
- Which camera and I/O device conditions to notify VSM (see *Camera & I/O Device Settings*)
- Which system information from subscribers (see *System Information Settings*)

Click the Advance tab on the Connect to Vital Sign Monitor dialog box (Figure 11-4) to display the Advanced Settings dialog box. There are three major tabs on it: (1) General, (2) Camera & I/O Device, and (3) System Information.

General Settings

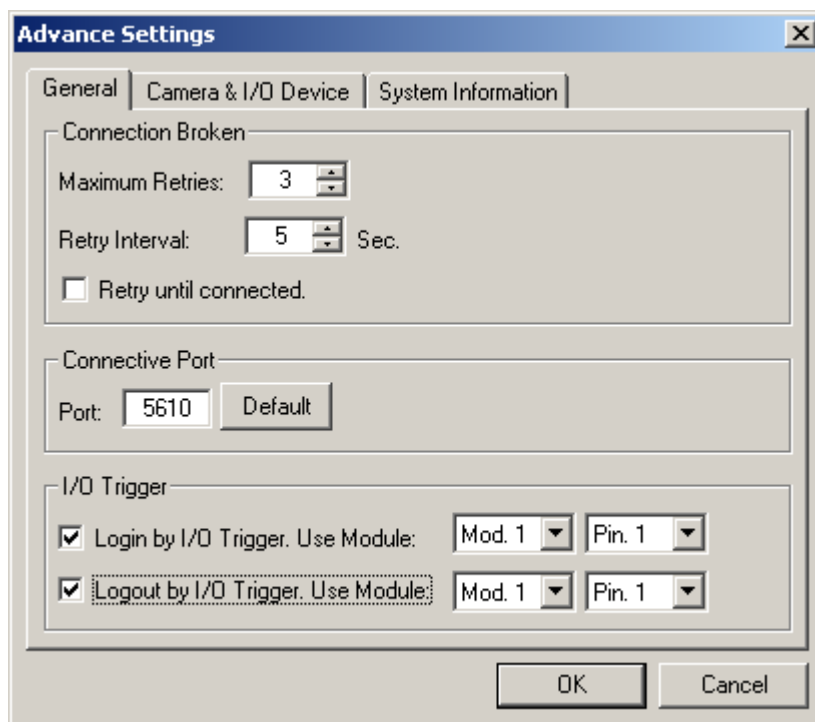


Figure 11-5 General settings

[Connection Broken] Specify the number of retries and the retry interval when the connection is not immediately available.

[Connective Port] Set the port to match that of VSM.

[I/O Trigger] Enable to log in or out VSM only when designated I/O modules are triggered.

Camera & I/O Device Settings

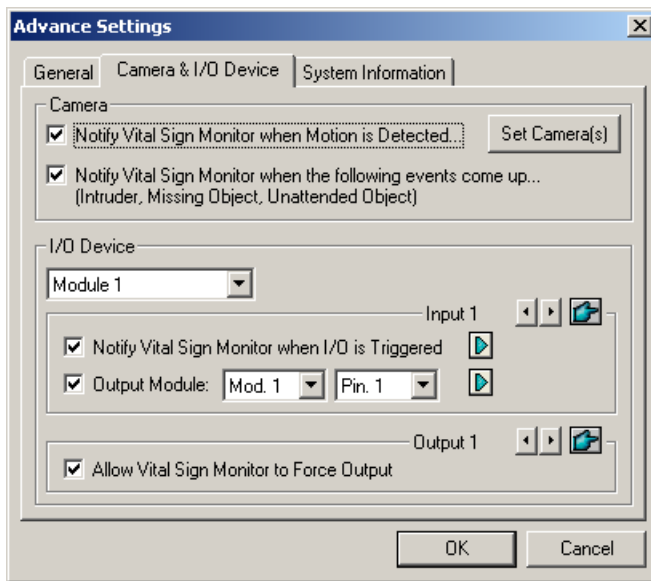


Figure 11-6 Camera & I/O Device settings

[Camera]

- **Notify Vital Sign Monitor when Motion is Detected:** Notifies VSM when any selected camera detects motion. Click Set Camera(s) button to select desired cameras for the application.
- **Notify Vital Sign Monitor when the following events come up:** Notifies Center V2 when any alert event occurs: Intruder, Missing Object and Unattended Object.

[I/O Device] Notifies VSM when I/O devices are triggered. Use the arrow buttons to configure each input, or click the Finger button to apply to all inputs.

- **Notify Vital Sign Monitor when I/O is Triggered:** Notifies VSM when any selected I/O device is triggered.

Right Arrow button: Click to set the delay time to notify VSM of I/O trigger.

- **Output Module:** Enables the assigned output module when the selected input module is triggered.

Right Arrow button: Click to set the delay time to trigger the assigned output module.

Note: The Right Arrow button settings in **Send to Center V2 when I/O is Triggered** and **Output Module** allow you time to deactivate I/O devices and output modules. To deactivate prior I/O settings, you may exit the connection to Center V2 or use the **Logout by I/O Trigger** function in Figure 11-15.

[Allow Vital Sign Monitor to Force Output] Allows the VSM operator to manually force output devices installed at the subscriber's site. Use the arrow buttons to configure each output, or click the Finger button to apply to all outputs.

System Information Settings

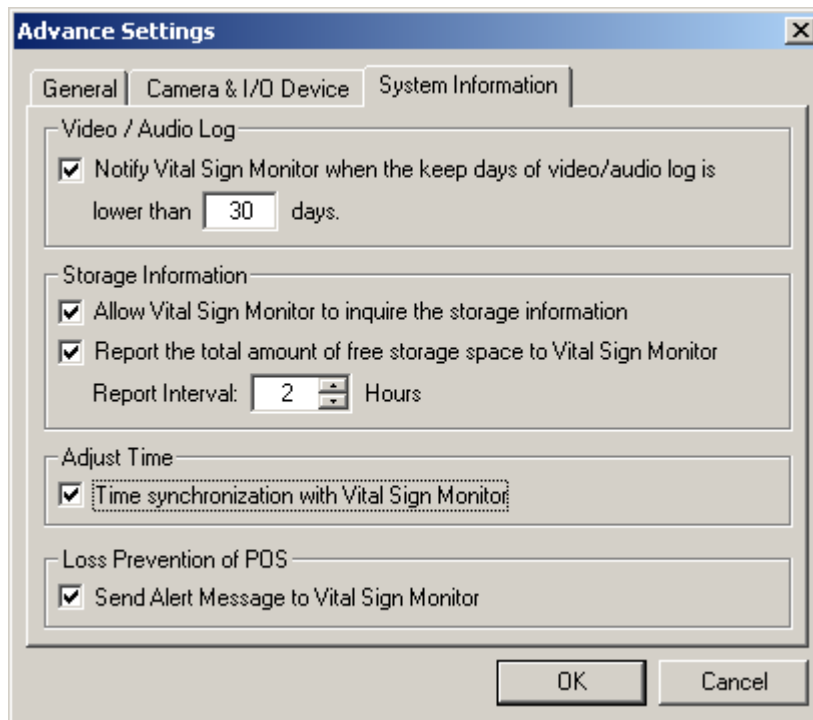


Figure 11-7 System Information settings

[Video/Audio Log] Notifies VSM when the duration of the video/audio logs is less than the specified days.

[Storage Information] Allows VSM to inquire the subscriber's storage information, and get the report of free storage space. When this function is enabled, you will see the message "*Free Disk Space xx*" on the VSM Event List window.


[Adjust Time] Enables the time increment/decrement of minutes and seconds at the subscriber site to match the time at VSM.

[Lose Prevention of POS] Notifies VSM when abnormal POS transactions occur.

Note: When the item of Adjust Time is checked, the function of time synchronization will be activated as soon as VSM is started up, and it will be re-activated every 24 hours.

Monitoring Subscribers

Viewing Subscriber Status

To view the subscriber status, highlight an online subscriber on the VSM window, and then click  the View Subscriber Status icon on the toolbar. This displays the following window.

Use the window to view the following status:

- Camera status
- Input status
- Video log storage status

For the Video Log Storage section, subscribers must grant this privilege to the VSM operator. See the Storage Information settings in Figure 11-7.

For the Output section, see *Forcing Outputs of Subscribers* below.

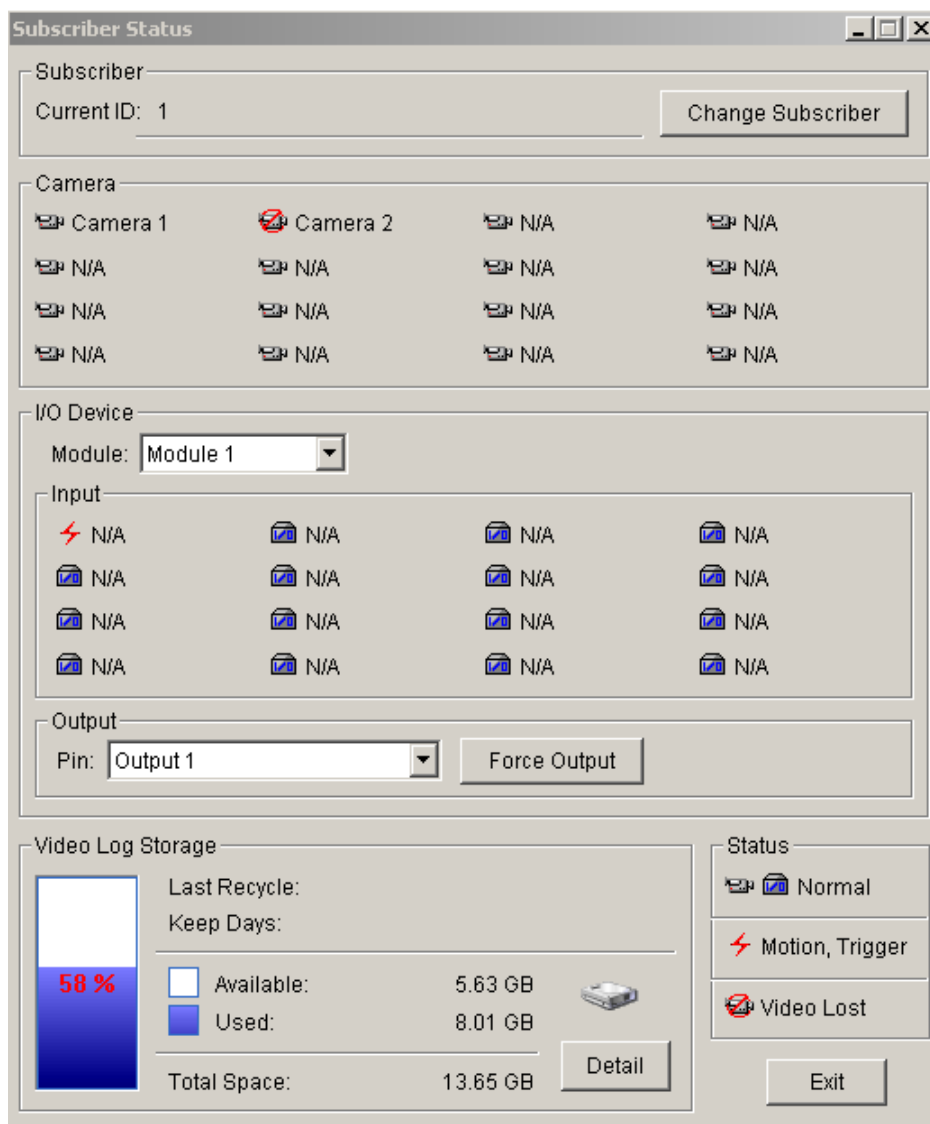


Figure 11-8 Subscriber Status

Viewing Storage Information

With the above Subscriber Status window, you can see each subscriber's storage information. When the VSM is monitoring many subscribers, the following window offers a more efficient way to view storage information from subscribers arranged in the same group.

Click the View Subscriber Storage Information button on the toolbar to display the following window. For this feature, subscribers must grant this privilege to the VSM operator. See the Storage Information settings in Figure 11-7.

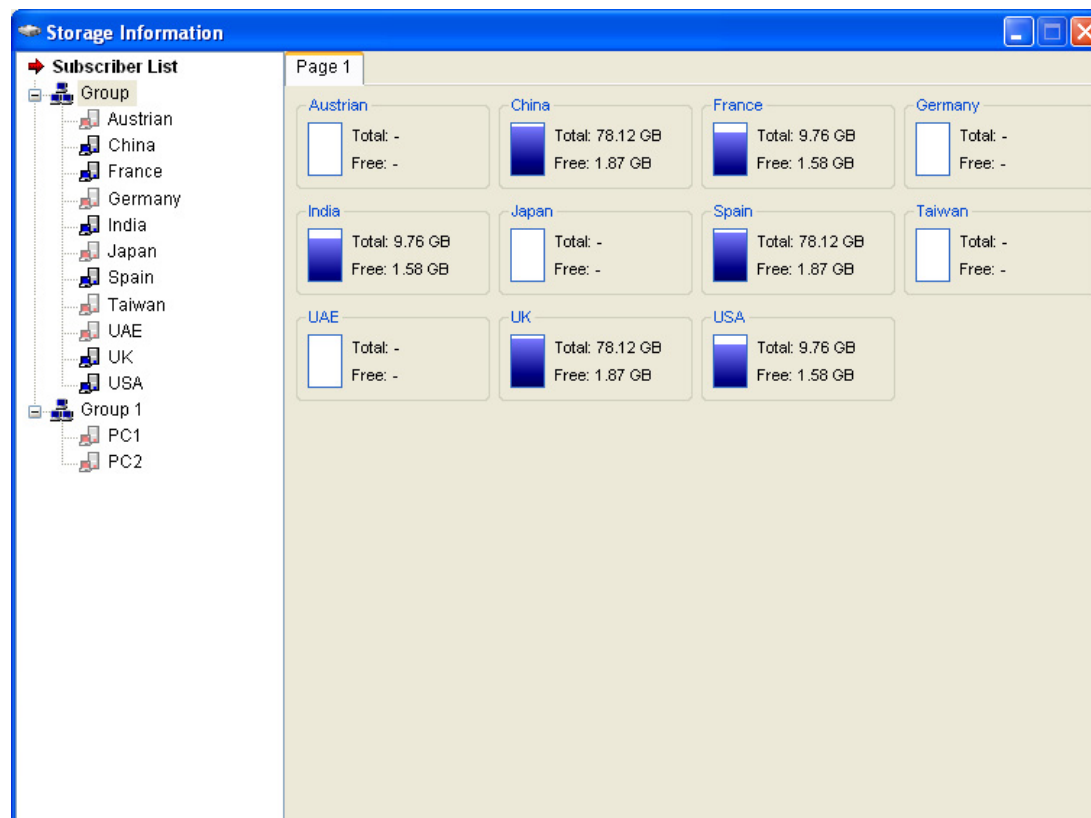


Figure 11-9 Storage Information

Activating Output Devices

VSM allows you to manually activate the output devices installed either at the VSM site or at the subscriber site.

Forcing Outputs of VSM

To manually force the output devices installed at the VSM site, click the Force Output button on the main screen to display the following window. Select the output module from the drop-down list, and then click finger buttons to activate output devices.

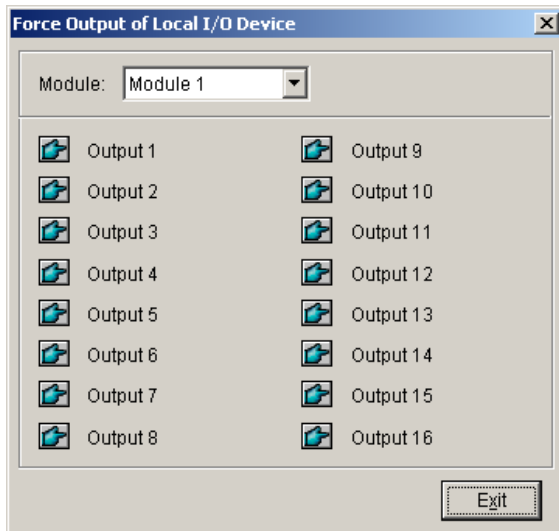



Figure 11-10 Force Output

Forcing Outputs of Subscribers

The VSM operator can manually activate output devices of subscribers if they allow this application. First, subscribers must enable the Allow Vital Sign Monitor to Force Output option in the Advanced Settings window. See Figure 11-6.

To activate the output device at the subscriber site:

1. Click  the View Subscriber Status button on the toolbar. This displays the Subscriber Status window. See Figure 11-8.
2. In the Output section, select one output pin.
3. Click the Force Output button.

SMS Alerts



This feature lets you send out SMS messages to subscribers when alert conditions occur. For the kind of alert condition, refer to *Notification Settings* on page 226.

Connecting to the SMS Server

Click Service on the window menu, and then select Connect to SMS Server. Enter the IP address, Port number, ID and Password of the SMS server, and then click Connect for the connection. For more information on the SMS sever, refer to *Short Message Service* in Chapter 12.



Sending SMS

Once the connection between the SMS server and VSM is established, there are three ways to send out SMS messages to subscribers. Refer to the main screen, Figure 11-1, for the following settings.

1. Click  the SMS button. This sends out SMS to an individual subscriber manually.
2. Click any event type to call up a message window, and then click  the SMS icon. This sends SMS to an individual subscriber manually.
3. Click Configure on the window menu and select Notification to display the Alarm Settings window. Check Send SMS Alerts. This sends SMS to subscribers automatically when alert conditions occur. See *Notification Settings* on page 226.

E-Mail Alerts

After setting your mailbox, there are four ways to send e-mail alerts. (For mailbox settings, refer to *Setting Mailbox* in Chapter 9 on page 209.) Refer to the main screen, Figure 11-1, for the following selections.

1. In the folder list, right click one subscriber, and then select Send E-Mail from the call-up menu. This sends the e-mail to an individual subscriber manually.
2. In the event list, double click one event to call up a message window, and then click  the e-mail icon. This sends the e-mail to an individual subscriber manually.
3. Select one subscriber from the folder list, and then click  the e-mail icon on the tool bar. This sends the e-mail to an individual subscriber manually.
4. Click Configure on the window menu and select Notification to display the Alarm Settings window. Check Send E-Mail Alerts. This sends e-mails to subscribers automatically when alert conditions occur. Refer to *Notification Settings* in Chapter 9, on page 207.