SmartManager

User’s Manual

SMARTMANAGER VERSION 2.3.0.8 OR HIGHER
MANUAL VERSION 2.3.0
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2) Stop discovery
3) Refresh
4) Device filtering
5) IP filtering

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3.10 Remote Setup
3.11 Quick View
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1. INTRODUCTION

Before starting the SmartManager (shortly SM below), the network device MUST be installed on the network and configured the network address and others for accessing the network. This software package installs some useful utilities to manage the network device.

1.1 About Smart Manager (SmartManager.exe)

After installation of the network device on the network, the network IP address MUST be configured to work properly. The IP address of the network device is set by automatically by the DHCP server or MUST be set by manually. The default IP address might be 192.168.30.220 (It MAY be different. It is dependant on the device type or firmware version).

The SmartManager is for discovering the network devices from the network and assigning the IP address to them or maintaining the device, restart, reset or set to default. The firmware could be updated using this. It shows connectivity, status and models of the discovered device on the local network. It supports Quick Setup for setting the video

1.2 System Requirements

Minimum system requirements are stated below. If the SmartManager is installed on a system which have inferior specs to what is stated below: the overall system performance might be affected.

Table 1. System Requirements

<table>
<thead>
<tr>
<th></th>
<th>Minimum</th>
<th>Recommend</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Intel Pentium 4 3.0GHz or higher</td>
<td>Intel(R) Core™ 2 Duo CPU 2.33GHz</td>
</tr>
<tr>
<td>RAM</td>
<td>10/100 Mbps</td>
<td>100/1000 Mbps</td>
</tr>
<tr>
<td>VGA</td>
<td>AGP or PCI Express, 1024x768</td>
<td>AGP 8x, PCI Expressx2, 1680x1050</td>
</tr>
<tr>
<td></td>
<td>ATI Radeon 9200 or higher</td>
<td>ATI Radeon HD350 or higher</td>
</tr>
<tr>
<td></td>
<td>nVidia MX440 or higher</td>
<td>nVidia 9800GT or higher</td>
</tr>
<tr>
<td>HDD</td>
<td>SATA 80GB (10 GB free)</td>
<td></td>
</tr>
<tr>
<td>OS</td>
<td>Microsoft® Windows® XP SP2 or higher</td>
<td>Microsoft® DirectX 9.0c</td>
</tr>
<tr>
<td>Software</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1.3 Main Functions
- Network device discovery
- Support ONVIF (Open Network Interface Forum) conformant device
- Quick view (RTP/UDP, RTP/TCP/RTSP, RTP/TCP/RTSP/HTTP)
- Remote setup
- Simple tooltip
- IP filtering
- Device filtering
- Firmware upgrade
- Device group exporting
- Assign IP address
- Set account
- Device maintenance (Restart/Reset/Factory Default)

1.4 Revision History

This document might be changed to support new and updated features of the software and device without any notification.

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Comment</th>
<th>SM Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>2009-Nov-30</td>
<td>Initial version</td>
<td>1.1</td>
</tr>
<tr>
<td>2.0.0</td>
<td>2010-April-20</td>
<td>ONVIF</td>
<td>2.0.0.1</td>
</tr>
<tr>
<td>2.3.0</td>
<td>2013-March-14</td>
<td>Update Model List, Device Filtering</td>
<td>2.3.0.8</td>
</tr>
</tbody>
</table>

2. INSTALLATION

1) Insert the software CD into the CD-ROM drive of the PC, or run the installation program (Setup-SmartManager-version.exe) directly.

2) When the software installation wizard runs, click [Next] button and follow the wizard guide to install the program. The vs2008sp1_vsredist_x86.exe MUST be installed together to work properly.

3) The SmartManager program group is installed on the start menu and desktop.
4) This will install automatically the SmartManager (SmartManager.exe) and uninstall software.
5) To run the SmartManager, double click the program on the desktop or select the program from the program group.

3. SMARTMANAGER

3.1 Discovery the network devices
① Run the SmartManager from the NautilusClient16 program group or SmartManager program group.

☑ Note
- The ONVIF conformant devices MAY not work properly because of the implementation of the device specification.
- If you want to dump ONVIF related log for debugging purpose, please run the SmartManager with option ‘DUMP_ONVIF’. E.g., "C:\Program Files\SmartManager\SmartManager.exe DUMP_ONVIF" in command line.

② The SmartManager discovers the network devices from the local network.
③ The device tree view shows device groups by the model, and user configured group.
④ The device list view shows status icon, Model Name, Name, MAC Address, IP Address (IPv4), Version.
⑤ The device list view shows the status of discovered devices by the icon.

Table 1. The status icon of the device information list

<table>
<thead>
<tr>
<th>Icon</th>
<th>Status of the device</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Flash Icon] Available to connect the network device</td>
<td></td>
</tr>
<tr>
<td>![Flash Off Icon] Unavailable to connect the network device</td>
<td></td>
</tr>
<tr>
<td>![Lock Icon] Connectable to the network device with fixed security (User ID/Password)</td>
<td></td>
</tr>
<tr>
<td>![Question Mark Icon] Loading the setting after connecting the network device</td>
<td></td>
</tr>
</tbody>
</table>
3.2 Add a group

① Select the Group item from the device tree view.
② Press the right button of the mouse, select the Add Group menu item.
③ Enter name of the group
④ Select the network device from the list and drag it to the group item
3.3 Rename group

1. Select the group item to rename from under the My Groups tree Item.
2. Press right button of the mouse, select the Rename Group menu item.
3. Enter the name of the group.

![Figure 3. Rename Group](image)

3.4 Delete group

1. Select the group item to delete from under My Groups tree Item.
2. Press right button of the mouse, select the Delete Group menu item.

![Figure 4. Delete Group](image)
3.5 Export the group
① Select the group item to delete from under My Groups tree Item.
② Press right button of the mouse, select the Export menu item.
③ Select the file name to be exported to My Groups setup.
④ The exported file (default: Default.xml) is able to be imported by the NautilusClient16.

3.6 All Devices
① Select the All Devices from the device tree view.
② The device list view shows the all network devices which are discovered from the network. The device list view sorts the devices by model.

3.7 Device Models
① Select the device model from the device tree view.
② The item shows the number of the network devices.
③ The device list view shows the selected network device model.

3.8 Toolbar

1) Start discovery
This is to start device discovery from the network.
2) Stop discovery
This is to stop device discovery.

3) Refresh
This is to delete discovered devices and restart device discovery.

4) Device filtering
This is to show the devices which are a specific device type.
① Click the Device filtering combo box.
② Select an item to show the devices which is item type.
③ Click the Refresh button. The list shows the devices of the specified device type.

5) IP filtering
This is to show the devices which are in the specific IP address range.
① Check the IP Filter check box.
② Set the IP address range from lower address value to upper address value.
③ Click the Apply button. The list shows the network devices and which are in the
specified address range.

4. Uncheck the IP Filter check box to show all devices.

☑️ Note
- The devices which are in the groups will not be deleted even when you do refresh or filtering the devices.

3.9 Simple Device Information by Tooltip

1. If the mouse pointer moved over the device in the device list view, the simple device information would be displayed by tooltip.
2. This shows available streams with stream name (profile name), codec, resolution, accessing port information (HTTP/HTTPS/RTSP) and functions (ONVIF, PTZ, Sensor Alarm).

<table>
<thead>
<tr>
<th>Channel</th>
<th>Stream1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Codec</td>
<td>H264HP</td>
</tr>
<tr>
<td>Resolution</td>
<td>1600x1200</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Channel</th>
<th>Stream2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Codec</td>
<td>MJPEG</td>
</tr>
<tr>
<td>Resolution</td>
<td>320x240</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Channel</th>
<th>Stream3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Codec</td>
<td>H264HP</td>
</tr>
<tr>
<td>Resolution</td>
<td>320x240</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Channel</th>
<th>Stream4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Codec</td>
<td>H264HP</td>
</tr>
<tr>
<td>Resolution</td>
<td>320x240</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Port Info.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTTP</td>
</tr>
<tr>
<td>HTTPS</td>
</tr>
<tr>
<td>RTSP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ONVIF</td>
</tr>
<tr>
<td>PTZ</td>
</tr>
<tr>
<td>Sensor Alarm</td>
</tr>
</tbody>
</table>

Figure 10. Tooltip Information
3.10 Remote Setup
This is to configure the network device configuration.

1. Select the device from the device list view.
2. Select the Remote Setup menu from the popup menu.

Figure 11. Remote Setup menu

3. Configure the network device in the configuration window and select the save button.
Figure 12. Remote Setup Window

✔ Note

- With the Quick View, the changing configuration is able to be checked immediately.

3.11 Quick View

1. Select the network devices from the device list view.
2. Select the Quick View from the popup menu.
③ Select the stream from the streams in combo-box.

Figure 13. Quick View

Figure 14. Streams in Quick View Window

④ Select the stream mode from the modes in the combo-box if it is enabled.
**3.12 Assign IP**

1. Select the network device from the device list view to assign IP address
2. Select the Assign IP from the popup menu.
3. Assign the IP address in the Assign IP Address window.
3.13 Maintenance

① Select the device from the device list view or select the device item from the device tree view.

② Select the submenu (Restart, Reset, Factory Default) of the Maintenance from the popup menu. The maintenance menu would be shown if the tree item is available for that.

<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restart</td>
<td>Reboot the network device</td>
</tr>
<tr>
<td>Reset</td>
<td>All parameters of device except network values would be changed to factory default values</td>
</tr>
<tr>
<td>Factory Default</td>
<td>All parameters of device including network values would be changed to factory default values</td>
</tr>
</tbody>
</table>
3.14 Upgrade Firmware

① Select a device to upgrade from the device list view or select the device item from the device tree view.
② Select the Upgrade Firmware menu from the popup menu. The Upgrade Firmware menu would be shown if the tree item is available for that.
③ Select the firmware file from the file open dialog.

Figure 19. Upgrade Firmware

Note

- Wrong firmware file upgrading, halting the system while upgrading firmware MAY effect serious problem to the network device.

3.15 Log In

① Select a device to set the user account information from the device list view.
② Set the user id and password information.
Figure 20. Log In

Figure 21. Account

3.16 Open Web Page
This is to open the device’s web page.

Figure 22. Open Web Page

3.17 Emergency Firmware Upgrade
In the case of specific failures, for example halting while upgrading firmware or upgrading the wrong file, some devices support this to upload the firmware.

1. Select the device which is not working properly because of some specific failures from
Select the Emergency Firmware Upgrade from the popup menu.

Upgrade the firmware.

![Remote Setup, Quick View, Assign IP, Maintenance, Upgrade Firmware, Log In, Open Web Page, Emergency Firmware Upgrade]

Figure 23. Emergency Firmware Upgrade

**Note**

- In the case of specific network device failure, the device MAY not be discovered with this. The Emergency Firmware Upgrade function is only useful when the network function of the device works properly.

**3.18 Update Model List**

Basically, SmartManager has camera device’s data. This data updates pretty often. You can update it based on below procedure. Updated data will be applied after closing the SmartManager and restart.

1. Please select Update Model List on the menu.
2. You can choose Network or File on Update Model List dialog and then, press the Update button, it will proceed 'Update Model List'. When you choose Network, it will use data which are saved on Update Server. When you choose File, you should designate Model List File at file open dialog.
Figure 24. Update ModelList

Figure 25. Update Model List Dialog