

SNC-xxx (Network camera) series
SNT-xxx (Video network station) series
SNCA-ZX104 (Hybrid camera receiver)

The version up procedure manual

Rev 1.11

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The change record

#	The release day	The version	The change contents and the comment
1	2010/06/07	1.00	The first edition
2	2010/08/03	1.01	Added the description of note sentence 1.4.7.
3	2010/08/06	1.02	Added SNC-CH160 and SNC-DH160 to the target model.
4	2010/09/14	1.03	1.1 The contents of the target model were updated.
5	2010/12/20	1.04	1.1 The contents of the target model were updated.
6	2011/02/01	1.05	1.1 The contents of the target model were updated.
7	2011/06/30	1.06	1.1 The contents of the target model were updated.
8	2011/09/01	1.07	1.1 The contents of the target model were updated.
9	2011/10/28	1.08	1.1 The contents of the target model were updated.
10	2012/04/05	1.09	1.1 The contents of the target model were updated.
11	2012/11/21	1.10	1.1 The contents of the target model were updated. 1.4.8 was added.
12	2013/2/8	1.11	1.1 The contents of the target model were updated.
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First

At this manual, the network camera, video network station and hybrid camera receiver software version up procedure is described.

Following in the text, it generically calls a network camera, video network station and hybrid camera receiver and we are called a target.

1. The preliminary confirmation

1.1. The target model

【Network camera】

SNC-CH110, SNC-CH115, SNC-CH120, SNC-CH135, SNC-CH140, SNC-CH160, SNC-CH180, SNC-CH210, SNC-CH220, SNC-CH240, SNC-CH260, SNC-CH280

SNC-DH110, SNC-DH110T, SNC-DH120, SNC-DH120T, SNC-DH140, SNC-DH140T, SNC-DH160, SNC-DH180, SNC-DH210, SNC-DH210T, SNC-DH220

SNC-DH220T, SNC-DH240, SNC-DH240T, SNC-DH260, SNC-DH280

SNC-EB520, SNC-EM520, SNC-EM521

SNC-EP520, SNC-EP521, SNC-EP550, SNC-EP580

SNC-ER520, SNC-ER521, SNC-ER550, SNC-ER580, SNC-ER585, SNC-ER585H

SNC-RH124, SNC-RH164, SNC-RS44N, SNC-RS44P

SNC-RS46N, SNC-RS46P, SNC-RS84N, SNC-RS84P, SNC-RS86N, SNC-RS86P

SNC-ZB550, SNC-ZM550, SNC-ZM551, SNC-ZP550, SNC-ZR550

【Video network station】

SNT-EX101, SNT-EX101E, SNT-EX104, SNT-EP104, SNT-EX154, SNT-EP154

【Hybrid camera receiver】

SNCA-ZX104

1.2. The maximum number of the upgrades

1024 Units

But, the number of the maximum simultaneous processing is 16.

Note :

Of the version to rise for four channels to become the same version is necessary to SNT-EX104, SNT-EP104, SNT-EX154, SNT-EP154.

1.3. The preparation

1.3.1. Prepare the following equipment.

- Windows PC (It has installed SNC toolbox).
- The power of the target
- The network-cable (When necessary, it is a hub).

1.3.2. Prepare a firmware file.

1.4. Note (Always, you read).

1.4.1. Before beginning work of the version to rise stable, always operate below.

- Please end all software as browsers and RSM/NSR which are accessing to target.
- Please restart target by switch the power of target.
- Of the Reboot button of the system-construction screen → initialization tab when a target is installed in remote

Click and restart a target.

1.4.2. As for the version up line, don't switch off the power of the target by all means.

1.4.3. Log in to the PC of the version which rises by the user who has the authority of Administrator.

1.4.4. Fixed IP address setting is recommended by the IP address of the target. In case of DHCP setting, the completion of the version up sometimes cannot be confirmed.

1.4.5. In the image memory function of the target, in case of envoy, after making setting off, work in the version up.

1.4.6. The SSL feature cannot of the version rise in case of setting of SSL when a check isn't "on" included in "the simultaneous permission of the HTTP connection".Make of the version rise after putting a check in "permitting HTTP connection at the same time" or making SSL feature "off".(SSL feature isn't implemented by the Chinese forwarding model.)

1.4.7. Please close the RSM when you use the PC for firmware upgrade.

Please stop the following services at "Control Panel" - "Administrative Tools" - "Services".

- RSM Record Server
- RSM Event Action

Please restart PC when you use RSM again.

1.4.8. Never upgrade hybrid camera receiver and IPELA HYBRID camera which is connected to the hybrid camera receiver simultaneously.

2. The version up preparation

2.1. The preparation of the target

According to the establishment manual of the attachment, connect a target and a computer.

2.2. The turning on of the target

Turn on the power of the target.

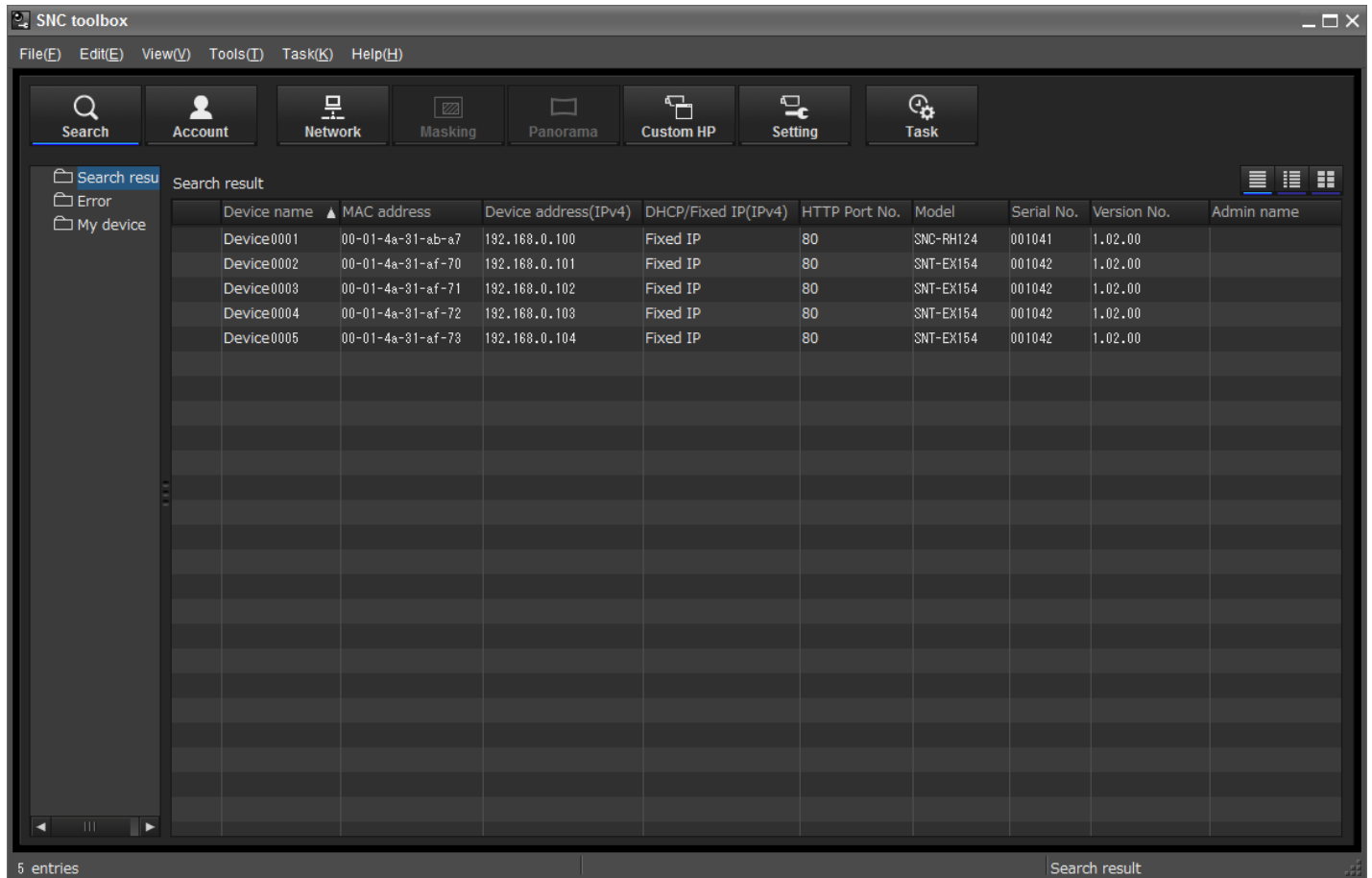
When a target is installed in remote and a power is already invested, click the Reboot button of the system-construction screen → initialization tab and restart a target.

The system starts up within about 2 minutes.

3. The execution of the version up by SNC toolbox

3.1. The start-up of SNC toolbox and the search of the target

A target on the identical network segment is searched and is displayed as follows.



The screenshot shows the SNC toolbox application window. The 'Search' tab is active, displaying a table of search results. The table has columns for Device name, MAC address, Device address(IPv4), DHCP/Fixed IP(IPv4), HTTP Port No., Model, Serial No., Version No., and Admin name. Five entries are listed, all with the same model (SNT-EX154) and version (1.02.00). The status bar at the bottom indicates '5 entries' and 'Search result'.

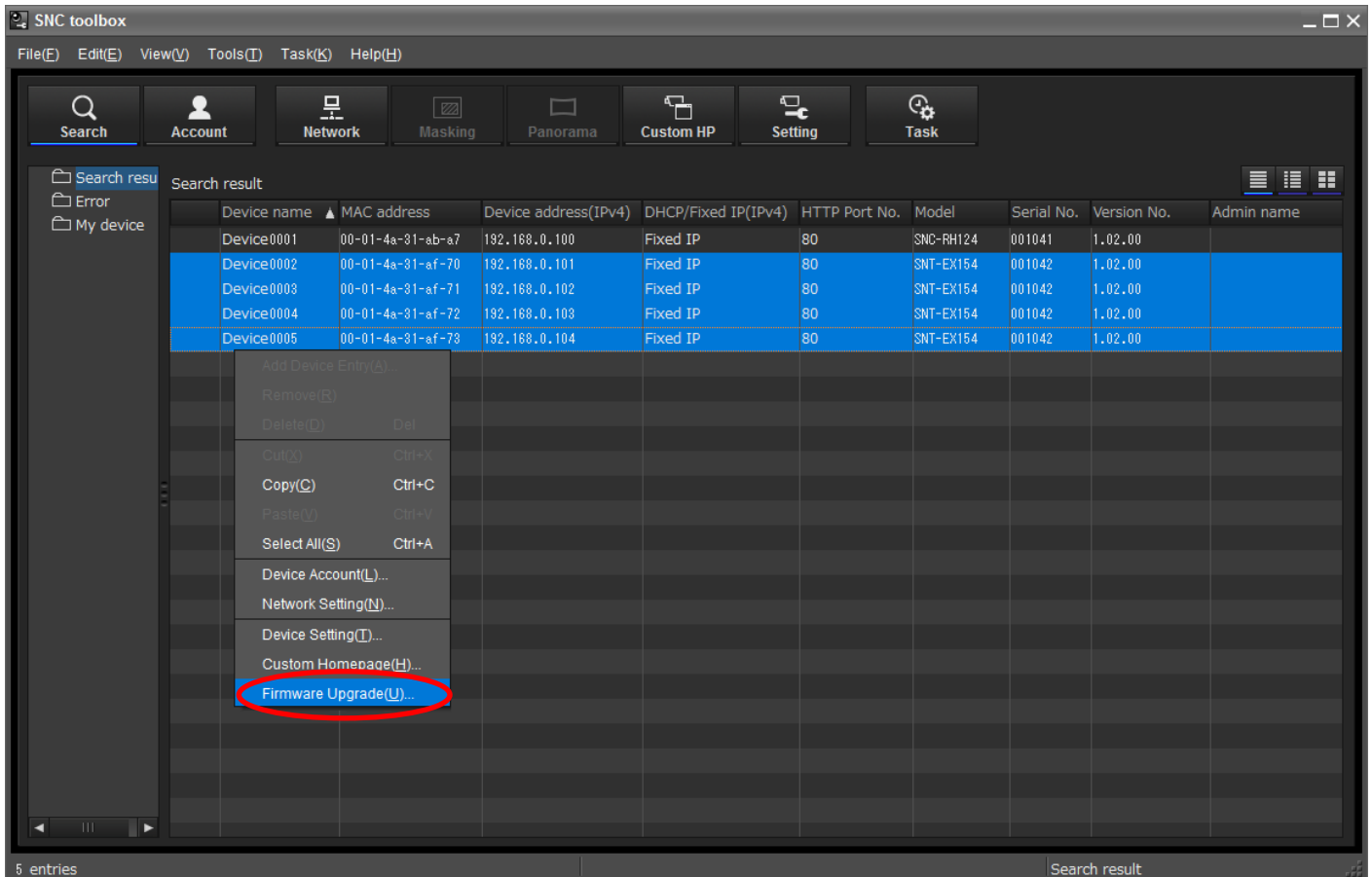
Device name	MAC address	Device address(IPv4)	DHCP/Fixed IP(IPv4)	HTTP Port No.	Model	Serial No.	Version No.	Admin name
Device0001	00-01-4a-31-ab-a7	192.168.0.100	Fixed IP	80	SNC-RH124	001041	1.02.00	
Device0002	00-01-4a-31-af-70	192.168.0.101	Fixed IP	80	SNT-EX154	001042	1.02.00	
Device0003	00-01-4a-31-af-71	192.168.0.102	Fixed IP	80	SNT-EX154	001042	1.02.00	
Device0004	00-01-4a-31-af-72	192.168.0.103	Fixed IP	80	SNT-EX154	001042	1.02.00	
Device0005	00-01-4a-31-af-73	192.168.0.104	Fixed IP	80	SNT-EX154	001042	1.02.00	

3.2. The choice of the target

3.2.1. The choice of the target which used a search result

Because the pull-down menu like the following opens when clicking and choosing and right-clicking the target which is dealt with for the version up, it chooses "**Firmware Upgrade**".

In case of SNT-EX104, SNT-EP104, SNT-EX154, SNT-EP154, because four targets with the same Serial number are displayed, the target choose all of the four.



Next, because the device account window opens, enter "**Administrator name**" and "**Administrator password**" and click "OK". The default value is admin/admin.

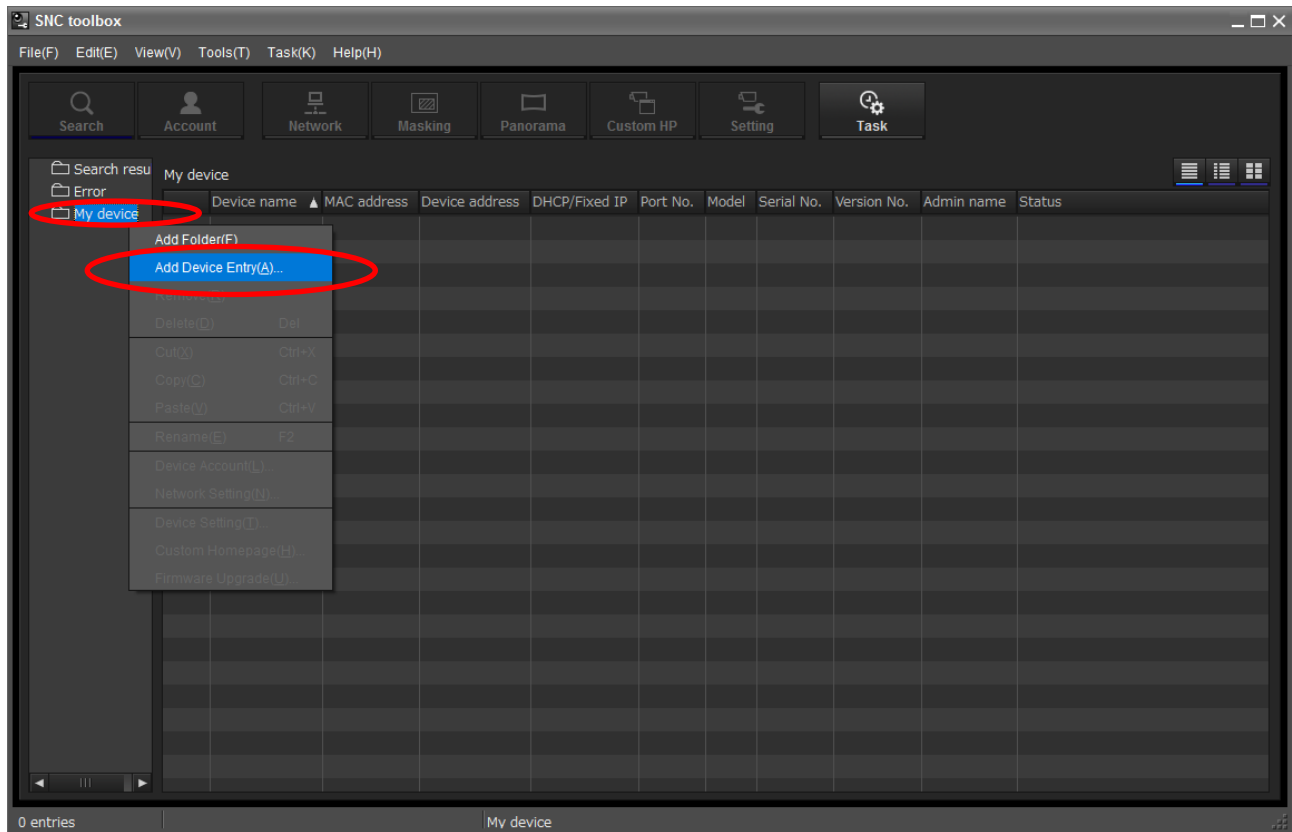
The screenshot shows a window titled "Device Account" with a table of devices and configuration options below it.

	ID	Device name	MAC address	Device address	Serial No.	Model	Admin
<input checked="" type="checkbox"/>	01	Device0002	00-01-4a-31-af-70	192.168.0.101	001042	SNT-EX154	
<input type="checkbox"/>	02	Device0003	00-01-4a-31-af-71	192.168.0.102	001042	SNT-EX154	
<input type="checkbox"/>	03	Device0004	00-01-4a-31-af-72	192.168.0.103	001042	SNT-EX154	
<input type="checkbox"/>	04	Device0005	00-01-4a-31-af-73	192.168.0.104	001042	SNT-EX154	

Below the table, there is a "Select/deselect all" checkbox (checked) and a "Device account" section. In this section, the "Administrator name" field contains "admin" and the "Administrator password" field contains "*****". Both fields are circled in red. To the right of these fields is a "Default..." button. At the bottom of the window, there are three buttons: "OK" (circled in red), "Cancel", and "Apply".

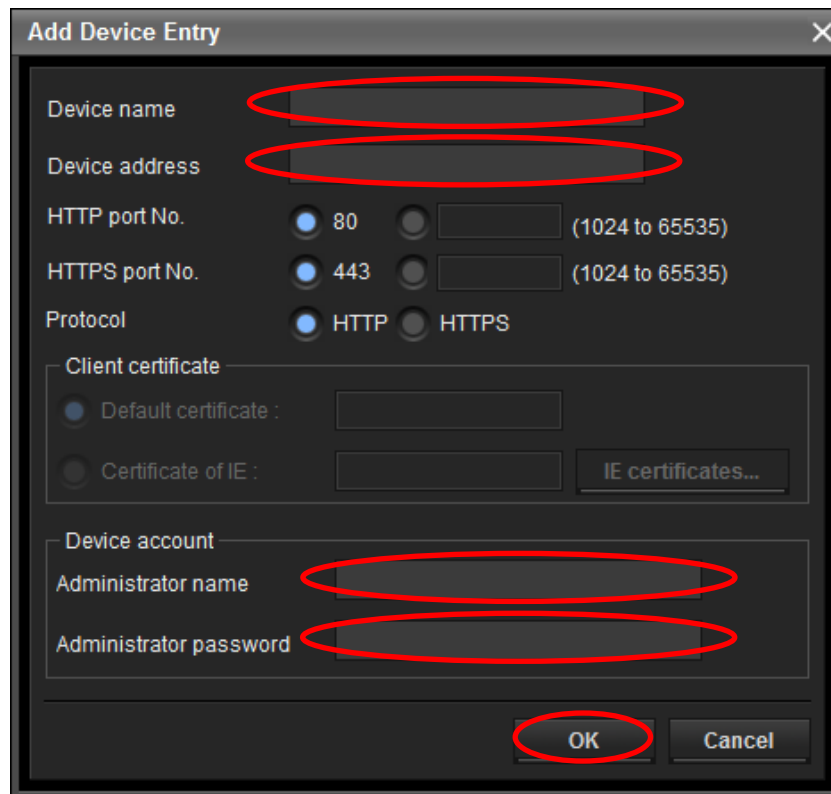
3.2.2. The choice of the target by the individual subscription

It subscribes the target which is dealt with for the version up to the manual. Because the pull-down menu like the following opens when right-clicking "**My device**", it chooses "**Add Device Entry**".



If the following window is displayed, in the name of the target to "**Device name**", input an IP address to "**Device address**" respectively to "the device name".

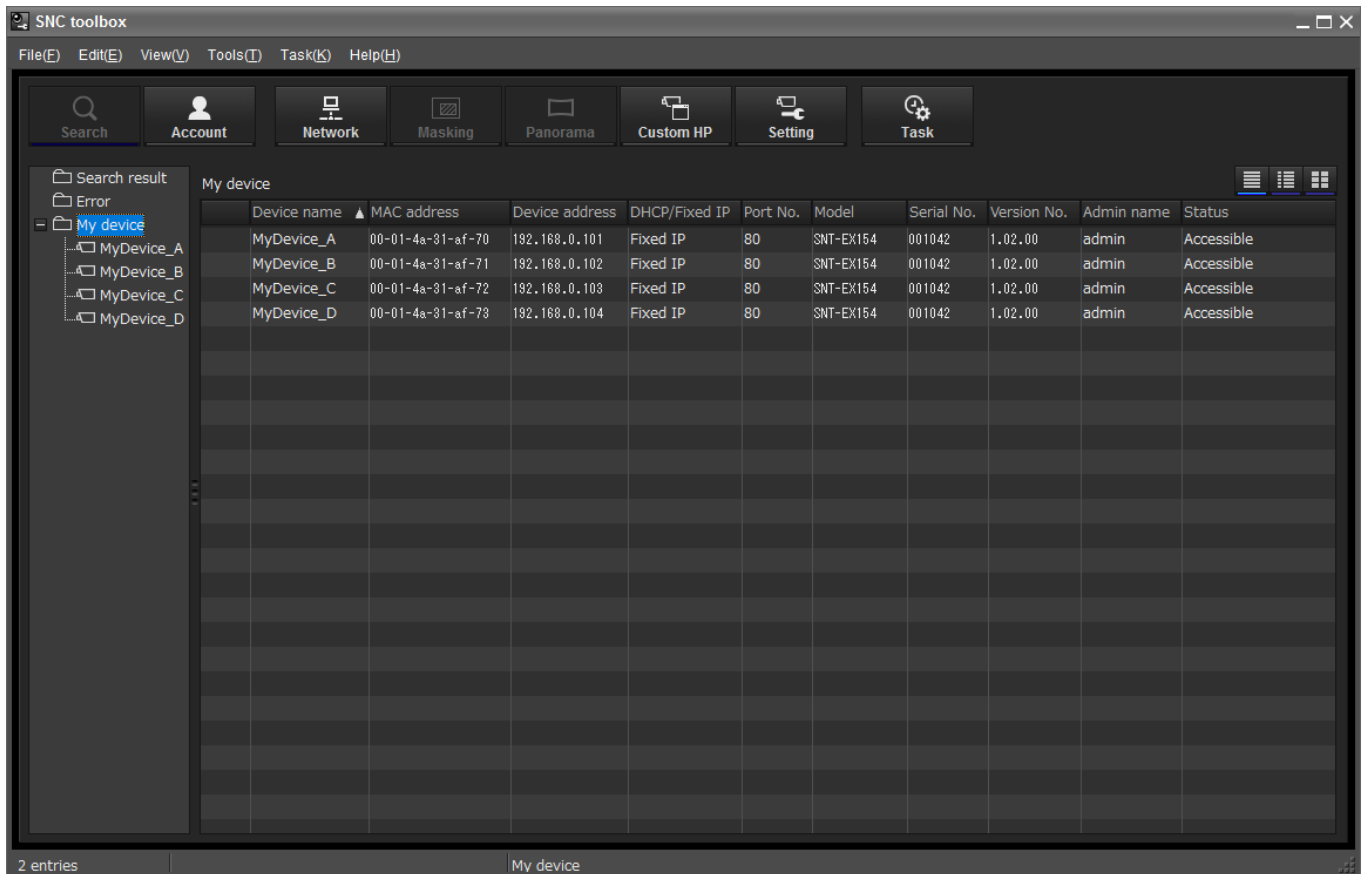
Next, enter "**Administrator name**" and "**Administrator password**" and click "**OK**". The original value becomes admin/admin.



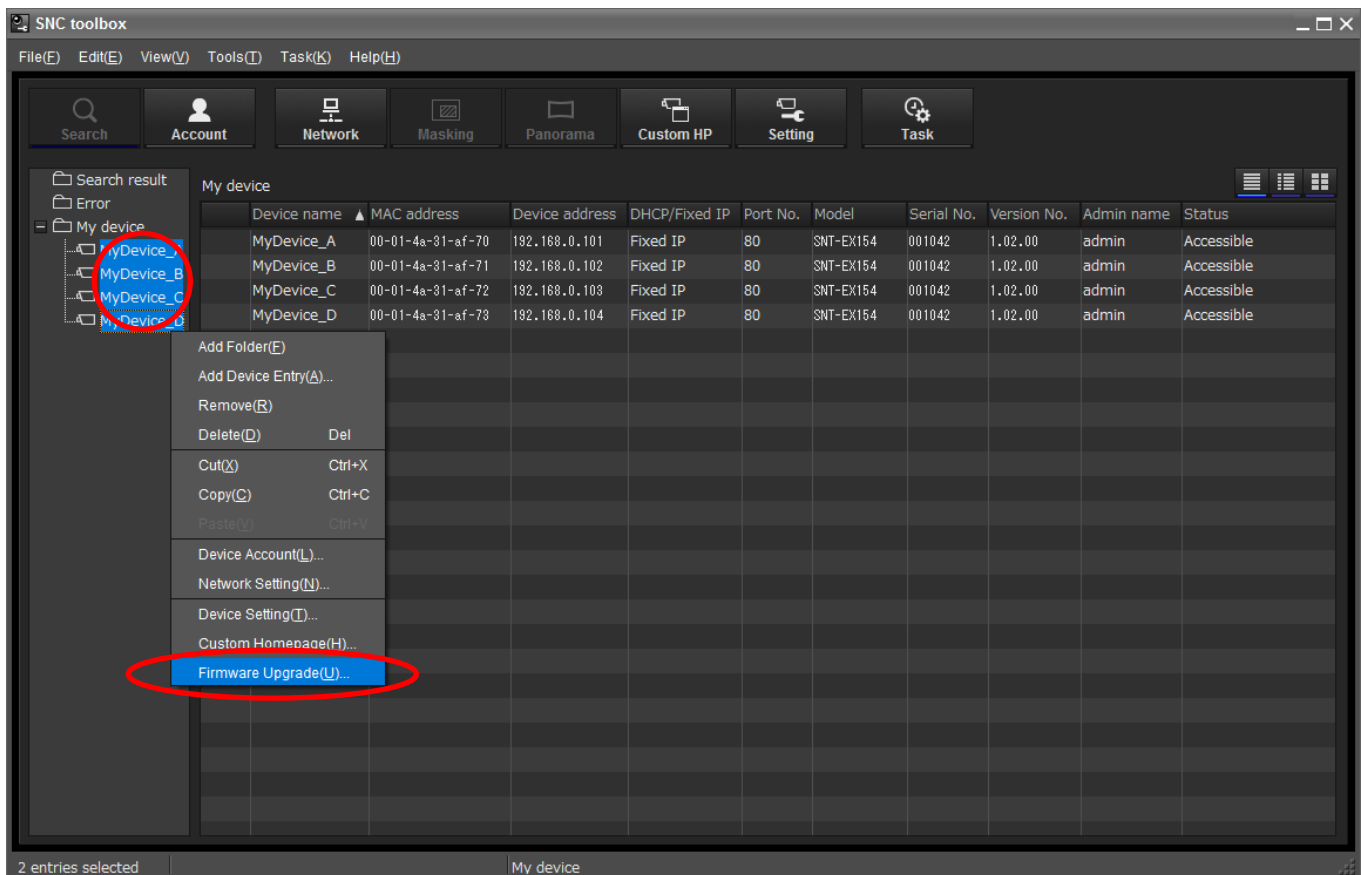
The image shows a dialog box titled "Add Device Entry" with a close button (X) in the top right corner. The dialog contains several input fields and options:

- Device name**: A text input field, circled in red.
- Device address**: A text input field, circled in red.
- HTTP port No.**: A radio button selected next to "80", with a text input field and "(1024 to 65535)" to its right.
- HTTPS port No.**: A radio button selected next to "443", with a text input field and "(1024 to 65535)" to its right.
- Protocol**: Two radio buttons, "HTTP" (selected) and "HTTPS".
- Client certificate**: A section with two radio buttons: "Default certificate:" (selected) and "Certificate of IE:". The "Certificate of IE:" button has a text input field and a button labeled "IE certificates..." next to it.
- Device account**: A section with two text input fields: "Administrator name" and "Administrator password", both circled in red.
- Buttons**: "OK" and "Cancel" buttons at the bottom right, with the "OK" button circled in red.

When registration is completed, it is displayed as follows.



Next, it right-clicks "**MyDevice_A**" and it chooses "**Firmware Upgrade**".



3.3. The choice and the version up beginning of the firmware file

A file is captured by SNC toolbox when clicking the following "**Browse**" button and choosing a firmware file and when the taking-in completes, a firmware file is displayed as follows.

When wanting to take over the setting data which is used by the present target, put a check in the check box of following "**Retain the current setting**".

In case of SNT-EX104, SNT-EP104, SNT-EX154, SNT-EP154, because four targets with the same Serial number are chosen, four targets are displayed. Because following "**Paralleled upgrade quantity**" becomes "4" automatically, make the setting of being just as it is.

It takes over the setting of a target and moreover when preserving a configuration file at the PC, you put a check in "**Backup device setting**" (YY : The year, the MM : The moon, DD : The day, HH : The MM at the time : The minute).

A configuration file is preserved in the following folder.

[Windows 7/ Vista / XP]

The folder : <InstallDir>%cfg%<YYMMDDHHMM>

The file name : <MAC address> .cfg

Next, when clicking following "**Start Upgrading**" button, version up is begun.

ID	Device name	MAC address	Device address	Serial No.	Model	Version No.	File version	Status
01	Device0002	00-01-4a-31-af-70	192.168.0.101	001042	SNT-EX154	1.03.00		
02	Device0003	00-01-4a-31-af-71	192.168.0.102	001042	SNT-EX154	1.03.00		
03	Device0004	00-01-4a-31-af-72	192.168.0.103	001042	SNT-EX154	1.03.00		
04	Device0005	00-01-4a-31-af-73	192.168.0.104	001042	SNT-EX154	1.03.00		

Up Down

Model name	File version	Firmware file
SNT-EX154	1.03.00	C:\Ver1.03\Encoder%SVU%SNT-EX_EP series_1.03.00.svu

Browse Clear

Setup data

☒ Retain the current setting

☒ Backup device setting

Clear all

Paralleled upgrade quantity: 4

Start Upgrading

Cancel

3.4. The elapse display of the version up

While the version rises, in "**Progress**", with the progress bar, "**Status**" is displayed respectively as follows with "**Uploading**".

【Note】

In this condition, don't make a power off by all means.

About 30 minutes by the time the one-target version up completes or it drives.

ID	Device name	MAC address	Device address	Serial No.	Model	Version No.	Progress	Status
01	Device0002	00-01-4a-31-af-70	192.168.0.101	001042	SNT-EX154	1.02.00	25 %	Uploading
02	Device0003	00-01-4a-31-af-71	192.168.0.102	001042	SNT-EX154	1.02.00	25 %	Uploading
03	Device0004	00-01-4a-31-af-72	192.168.0.103	001042	SNT-EX154	1.02.00	25 %	Uploading
04	Device0005	00-01-4a-31-af-73	192.168.0.104	001042	SNT-EX154	1.02.00	25 %	Uploading

Up Down

Model name	File version	Firmware file	Browse	Clear
SNT-EX154	1.03.00	C:\Ver1.03\Encoder\SVU\SNT-EX_EP_series_1.03.00.svu		

Setup data

☒ Retain the current setting
☐ Backup device setting

Clear all

Paralleled upgrade quantity: 1

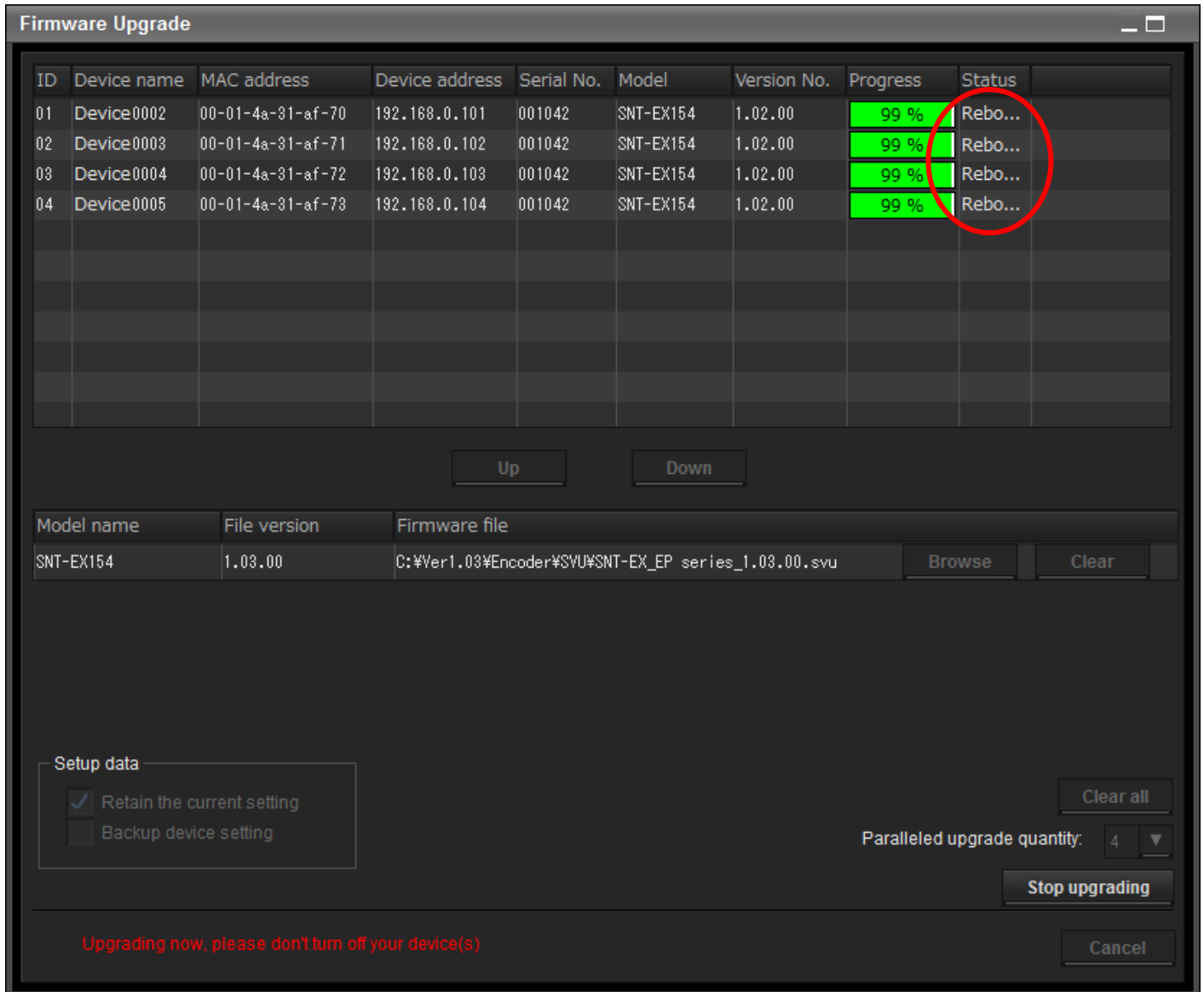
Stop upgrading

Upgrading now, please don't turn off your device(s)

Cancel

3.5. The restart after the version up

When the version up completes, a target is restarted and "**Status**" is displayed as follows with "**Rebooting**".



The screenshot shows the 'Firmware Upgrade' application window. It features a table with columns: ID, Device name, MAC address, Device address, Serial No., Model, Version No., Progress, and Status. The first four rows show devices with 99% progress and 'Rebo...' status. A red circle highlights the 'Rebo...' status text in the first row. Below the table are 'Up' and 'Down' buttons. Further down is a section for file selection with columns: Model name, File version, and Firmware file. Below this is a 'Setup data' section with checkboxes for 'Retain the current setting' (checked) and 'Backup device setting'. To the right of this section are 'Clear all', 'Paralleled upgrade quantity' (set to 4), 'Stop upgrading', and 'Cancel' buttons. A red status bar at the bottom reads 'Upgrading now, please don't turn off your device(s)'.

ID	Device name	MAC address	Device address	Serial No.	Model	Version No.	Progress	Status
01	Device0002	00-01-4a-31-af-70	192.168.0.101	001042	SNT-EX154	1.02.00	99 %	Rebo...
02	Device0003	00-01-4a-31-af-71	192.168.0.102	001042	SNT-EX154	1.02.00	99 %	Rebo...
03	Device0004	00-01-4a-31-af-72	192.168.0.103	001042	SNT-EX154	1.02.00	99 %	Rebo...
04	Device0005	00-01-4a-31-af-73	192.168.0.104	001042	SNT-EX154	1.02.00	99 %	Rebo...

Up Down

Model name	File version	Firmware file
SNT-EX154	1.03.00	C:\Ver1.03\Encoder\SVU\SNT-EX_EP_series_1.03.00.svu

Browse Clear

Setup data

☒ Retain the current setting
☐ Backup device setting

Clear all

Paralleled upgrade quantity: 4 ▼

Stop upgrading

Upgrading now, please don't turn off your device(s)

Cancel

3.6. The version up completion

When the version up completes, "**Status**" is displayed as follows with "**OK**". If this display comes out, close a firmware upgrade window by click the following "**Cancel**" button.

Firmware Upgrade

ID	Device name	MAC address	Device address	Serial No.	Model	Version No.	File version	Status
01	Device0002	00-01-4a-31-af-70	192.168.0.101	001042	SNT-EX154	1.02.00	1.03.00	OK
02	Device0003	00-01-4a-31-af-71	192.168.0.102	001042	SNT-EX154	1.02.00	1.03.00	OK
03	Device0004	00-01-4a-31-af-72	192.168.0.103	001042	SNT-EX154	1.02.00	1.03.00	OK
04	Device0005	00-01-4a-31-af-73	192.168.0.104	001042	SNT-EX154	1.02.00	1.03.00	OK

Up Down

Model name	File version	Firmware file	Browse	Clear
SNT-EX154	1.03.00	C:\Ver1.03\Encoder\SVU\SNT-EX_EP_series_1.03.00.svu		

Setup data

☒ Retain the current setting
☐ Backup device setting

Clear all

Paralleled upgrade quantity: 4 ▼

Start Upgrading

Cancel

4. The confirmation of the video

Confirm that it inputs the following URL to the address column in the Web browser and that the video of the target is displayed.

http:// <the IP address of the target> /

5. The ending of the version up work

When there is a target locally, switch off the power of the target and miss a network-cable, a butt cable from the target.