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Introduction of upgrading the NS-2250 system software
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Seiko Solutions Inc.

This document describes about upgrading the system software of the SmartCS NS-2250 console server (hereinafter referred to as the NS-2250).

Be aware that the enclosed system software operates only with the NS-2250-16/-16D/-32/-32D /-48/-48D.

The procedure how to upgrade the system software is also written in “console server NS-2250 Instruction Manual”.

After checking how to switch, copy and restore the system software written in the instruction manual, carry out upgrading.

NS-2250 Instruction Manual
Chapter 5 Management and maintenance
5.5 Manage system software

If there are any questions about upgrading, contact your local reseller, or contact us from the following web page:

Contact form:
https://form.seiko-sol.co.jp/m/si_en/

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How to upgrade

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When carrying out upgrading, note the following points.

- Before starting work, prepare a FTP/TFTP server, or FTP/SFTP client.
- Only the device administrator can upgrade the system software.

(1) Check the upgrading file

After decompressing the compressed file (2250vXX.zip), confirm the following three files are expanded. The file named "system.2250" is the system software to upgrade.

NS-2250_Readme_En_XX.pdf	--This document
NS-2250_ReleaseNote_En_XX.pdf	--The release note
system.2250	--The upgrading file

(2) Clear the upgrading file area

Before transmitting the upgrading file, clear the area to be used by the upgrading.

```
(c)NS-2250# verup cleanup↓  
clean up successful  
(c)NS-2250#
```

(3) Transfer the upgrading file

Transfer the upgrading file to the NS-2250 by the following ways.

- a. Using the tftp command of the NS-2250
 - b. Using the ftp command of the NS-2250
 - c. Using the FTP/SFTP client
- a. Using the tftp command of the NS-2250

Before starting work, prepare the upgrading file with the name "system" on the TFTP server.

Next, carry out the following command to acquire the upgrading file from the TFTP server (192.168.1.101).

```
(c)NS-2250# tftp get verup system 192.168.1.101↓  
(c)NS-2250#
```

b. Using the ftp command of the NS-2250

Before starting work, prepare the upgrading file with the name "system.2250" on the FTP server.

Carry out the following commands to acquire the upgrading file from the FTP server (192.168.1.101). File name of upgrading file must be changed to "system".

If the FTP transfer failed, try again.

Use binary mode when transmitting the system software.

```
(c)NS-2250# ftp verup 192.168.1.101␣
Connected to 192.168.1.101 (192.168.1.101).
220 FTP Server ready.
Name (192.168.1.101:user1): user1␣
331 Password required for user1
Password: ␣
230 User user1 logged in.
ftp> hash␣
Hash mark printing on (1024 bytes/hash mark).
ftp> binary␣
200 Type set to I
ftp> get system.2250 system␣
local: system remote: system.2250
227 Entering Passive Mode (192.168.1.101,218,103).
150 Opening BINARY mode data connection for system.2250 (3,910,784bytes)
#####
226 Transfer complete
3271164 bytes received in 0.28 secs (11641.15 Kbytes/sec)
ftp> quit
221 Goodbye.
#
```

c. Using the FTP/SFTP client

Carry out the "enable ftpd" command to enable the FTP server of the NS-2250.

Next, carry out the "create allowhost" command to allow FTP/SFTP connections from the client terminal.

Configure the password for the upgrade user (verup). If the name of the upgrade user was changed, carry out the following operation to the user whose user-id is 199. (The username can be confirmed by the "show user" command.)

To use the SFTP client, which uses the SSH protocol, refer to Section 4.6.6 "Configure the SSH server" and Section 4.6.7 "Control access to servers" and then configure the SSH server of the NS-2250.

```

NS-2250 login: somebody↓
Password:
(c)NS-2250> su↓
Password:
(c)NS-2250# create allowhost all service ftpd↓
(c)NS-2250# enable ftpd↓
(c)NS-2250# set user verup password↓
Changing password for user verup.
New password: _____↓
Retype new password: _____↓
(c)NS-2250#

```

Transmit the upgrading file to the NS-2250 from the FTP client.
The following is an example by using the FTP client of Windows.

Caution :

During transmitting the file, do not switch the power of the NS-2250 off or push the RESET switch. It may occur the system software does not operate. In case of failing to transmit the system software due to the communication failure, transmit the system software as it is again.

Use binary mode when transmitting the system software.

```

(Start the FTP client in the directory the upgrading file saved in.)
C:\verup> ftp 192.168.1.1 (< IP address of NS-2250>)↓
Connected to 192.168.1.1.
220 Welcome to FTP service.

Name (192.168.1.1:none): verup↓
331 Please specify the password.
Password: <registered password>↓
230 Login successful.

(Move to the exclusive upgrade directory)
ftp> cd verupfiles↓
250 Directory successfully changed.

(Set the mode of transmitting the upgrading file binary.)
ftp> binary↓
200 Switching to Binary mode.

(Set the hash on to show the status of transmitting the upgrading file.)
ftp> hash↓
Hash mark printing on (2048 bytes/hash mark).

(Transmit the upgrading file "system.2250" as "system" on NS-2250)

ftp> put system.2250 system↓
200 PORT command successful. Consider using PASV.
150 Ok to send data.

```

```
#####  
#  
226 File receive OK.  
  
(Quit the FTP connection.)  
ftp> quit  
C:¥verup>
```

(4) Run the upgrade

Login the NS-2250, and carry out the “verup execute” command to confirm that the system software sent via FTP is appropriate.

If an error message appears after you carry out the “verup execute” command, send the system software to the NS-2250 again, and then carry out the “verup execute” command.

```
(c)NS-2250# verup execute  
Do you update main-system version [y/n] ? y  
Version up file is extracting.  
Please wait a few minutes...  
verup successful
```

If the “verup successful” message after carry out the “verup execute” command, carry out the “reboot” command to reboot the NS-2250.If an error message appears, retry from (2)Clear the upgrading file area and carry out the “verup execute”command again.

```
(c)NS-2250# reboot  
Do you really want to reboot with main system and startup1 [y/n] ? y
```

Caution :

Rebooting may take a long time after the “verup execute” command and upgrade have been carried out. Do not switch off the power or press the RESET switch until the NS-2250 starts. Otherwise, the system software will no longer start.

In the case of login the NS-2250 by using telnet, the connection will be disconnected after rebooting.

After the system software starts, login the NS-2250 again.

(5) Check the results of the upgrade

After the NS-2250 restarts, carry out the “show version” command, and then check the version of the system software is upgraded.

```
(c)NS-2250# show version↓  
System           : System Software Ver X.X (Build XXXX-XX-XX)  
~abridgement~
```

If the system software is upgraded normally, carry out the “show log console” command to confirm whether an error message appears or not.

(6) Copy the system software to backup

Carry out the following operation to copy the upgraded system software (main) to the system software (backup) if necessary.

```
(c)NS-2250# copy system main to backup↓  
Do you copy main system to backup system [y/n] ? y↓  
Please wait a few minutes... done.  
copy successful
```