1. Overview

This chapter describes the migration procedure from the data and control applications on the NFCP100, to the NFCP501/NFCP502.

First step, backing up, convert and restore the data on the controller by the command operation on the personal computer.

Next step, migrate the control application for the NFCP100 (project on the Logic Designer), to for the NFCP501/NFCP502. And download to the NFCP501/NFCP502.
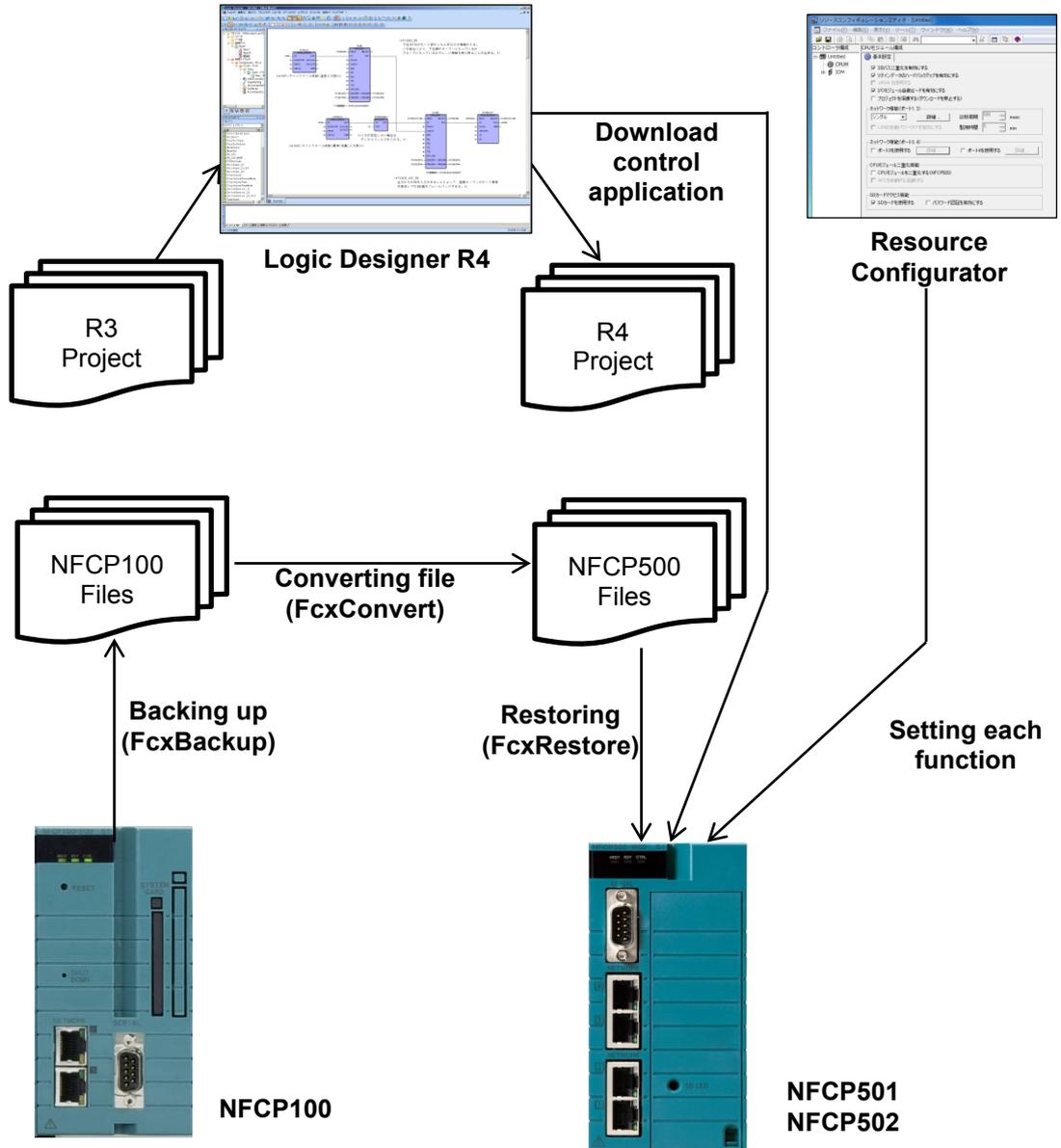

Figure Overview of migration

1.1   Backing up, Converting, Restoring Data

This section describes the command for backing up the data of the NFCP100, for converting it for the NFCP501/NFCP502, and for restoring it to the NFCP501/NFCP502.

The converted file is shown below.

 - Retain saved file
 - Settings of the resource configurator
 - DUONUS.PRP

Setting items that are not included in the NFCP100, will be the default value. If necessary, set it.

 - CPU duplex configuration
 - SNTP server
 - Ethernet port No.3 and No.4 for NFCP502
 - SD card

TIP

- Control application, boot project and the source file is not a conversion target. These are compiled and downloaded by the Logic Designer.
- FcxConvert command can not convert the file that was backed up from NFJT100. Re-set IO setting by the resource configurator. Re-set DUONUS.PRP by the maintenance page. Retain saved file can be restored without conversion.

● FcxBackup Command

This command backs up the target files from NFCP100 or NFJT100.

"BACKUP" folder will be created in the current directory.

Command: FcxBackup -all -u <User name> -p <Password>
                <Host name or IP address>}

User name: User name of the administrator account.
Password: Password of the administrator account.
Host name or IP address:
                Host name or IP address of the NFCP100.

E.g.:   `FcxBackup –all –u user01 –p abc123 192.168.0.1`

TIP

- When you run the FcxBackup, FcxConvert and FcxRestore command in the command prompt, move to the unzipped folder.
- The "-all" argument can be used FcxBackup command R3.10 or later.
- The "-u <user name>" and "-p <password>" argument can be used FcxBackup command R4.10 or later. If you have changed the user name and password from the initial value, be sure to specify them always.

● **FcxConvert Command**

This command converts the FcxBackup command output file to NFCP501/NFCP502 file.

Command: FcxConvert.exe -t {new CPU type} -i {Source folder} -o {Destination folder}

New CPU type: "NFCP501" or "NFCP502"

Source folder: "BACKUP"

Destination folder:
  E.g. "BACKUP_NFCP501"
  Please rename "BACKUP_NFCP501" into "BACKUP" when it is restored to NFCP501/NFCP502.

E.g.: `FcxConvert.exe -t NFCP501 -i BACKUP -o BACKUP_NFCP501`

● **FcxRestore Command**

This command restores (downloads) the FcxConvert command output file to NFCP501/NFCP502.

Command: FcxRestore {Host name or IP address}

Host name or IP address:
  Host name or IP address of the NFCP501/NFCP502.

E.g.: `FcxRestore 192.168.0.1`

TIP

When restoring the file backed up from the NFCP100 and converted, to the NFCP501 /NFCP502, the IP address of the backup source is set as the restore destination.

● **FcxSaveRetain Command**

This command saves, acquires, restores, and clears the retained data.

In this TI, only clear option is used. The command with "-c" option clears the retain data on the SRAM. This command is used together with the FcxRestore command to ensure that the backed up retained data is reflected in the SRAM.

Command: FcxSaveRetain -c {Host name or IP address}

Host name or IP address:
  Host name or IP address of the NFCP501/NFCP502.

E.g.: FcxSaveRetain -c 192.168.0.1