KENWOOD

NEXEDGE®

Release Notes

Information for March 2026 Update

NXR-5000 Series Gen1 5.50

NXR-5000 Series Gen2 2.00

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Contents

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1. Release information

1.1. European Radio Equipment Directive (Compliance with RED Cybersecurity Requirements)

The following new firmware versions will be released in March 2026.

- NXR-5000 series Gen1: 5.50
- NXR-5000 series Gen2: 2.00

This update is designed to comply with the European Radio Equipment Directive (RED) cybersecurity requirements that came into effect on August 1, 2025. After this date, radio equipment marketed in the EU market must comply with these requirements.

The changes are as follows:

- Support with new hardware (hardware version 2)
- Encryption of IP communication between repeater and PC software
- Added password input for IP connection on KPG-D2
- Made the Access Code setting mandatory for IP connections of KPG-110SM.
- Added file selection on KFL

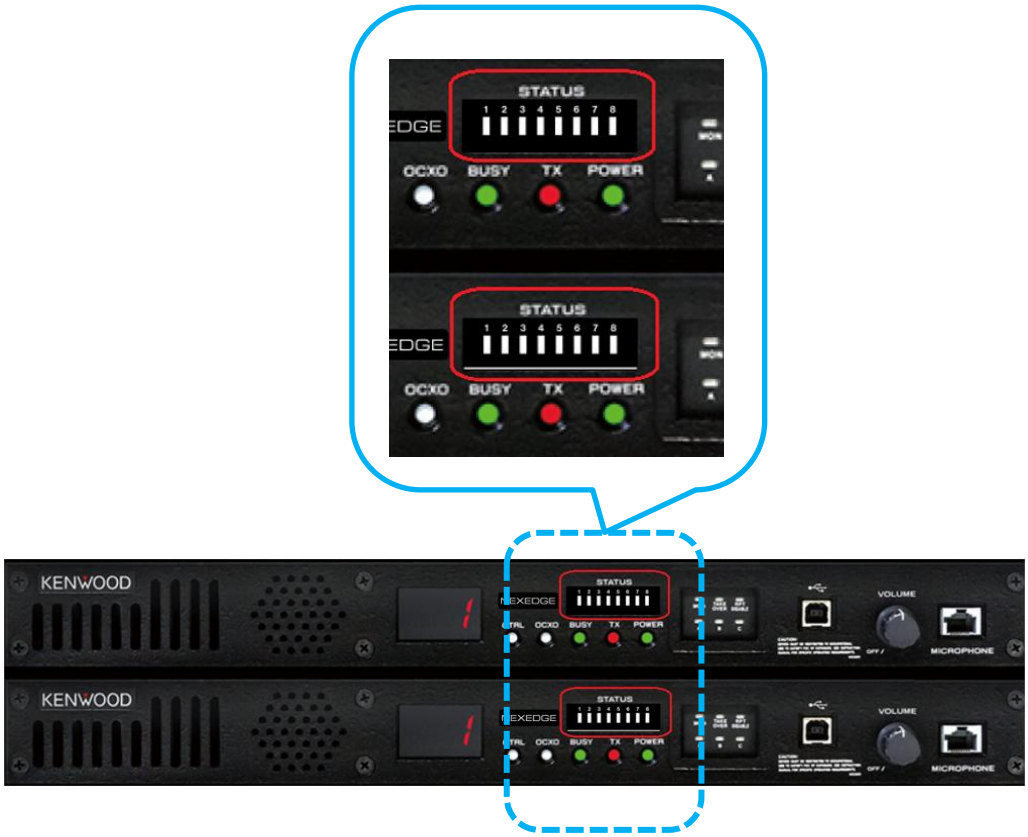
2. Changes NXR-5000

2.1. New hardware for NXR-5000

- New hardware (hardware version 2) has been added to the NXR-5000, and there is difference from the current hardware.

- New hardware can be identified from its appearance.
  - Panel badge changed (bar appears below STATUS LED)
  - Added "V2" to individual packaging box and nameplate Label

- It is also possible to distinguish new and current hardware from the Repeater Information of KPG-D2. (Hardware version: V2)



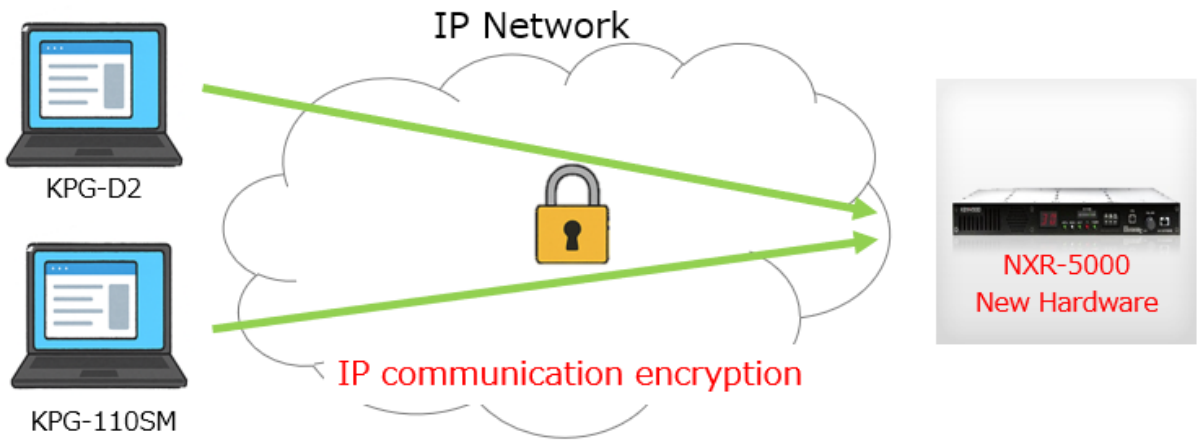
2.2. Encryption of IP communication

- To comply with RED, encryption of IP communication between the repeater and PC software is enhanced only on hardware version 2. In addition, password or access code is mandatory when programming the system via IP.

  The target PC software is as follows.
  < Target PC software >
  - KPG-D2
  - KPG-110SM

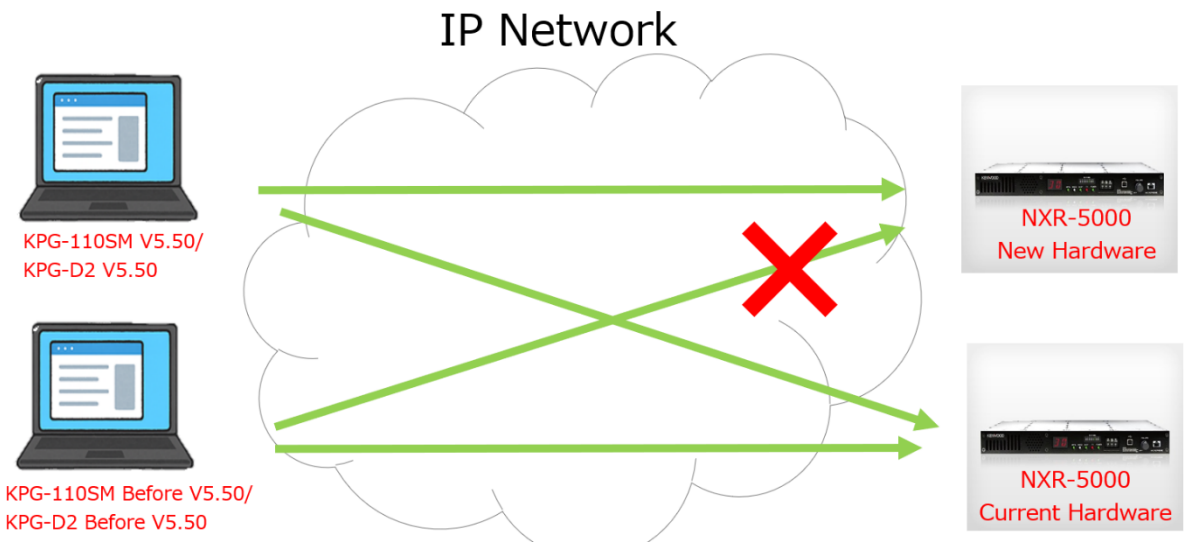
- For details on adding password and Access Code settings, refer to the following chapters.
  -2.6. Adding Password Settings (Web Tool Settings)
  -3.1. KPG-D2 (Field Programming Unit (FPU)) Changes
  -3.2. KPG-110SM Changes

These IP communication encryption and password input specifications apply to Conventional and NXDN Gen1 Trunking.
There are no changes to the operational specifications for NXDN Gen2 Trunking.
This applies only to hardware version 2.



2.3. Compatibility for new and current IP networks

- The following figure is compatibility with new and current IP networks.
- Non-security PC software cannot communicate with security-enabled repeaters.

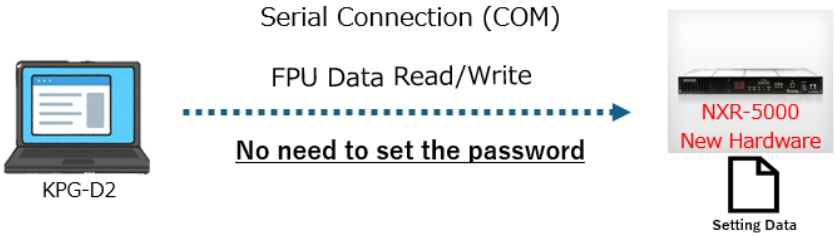


2.4. Changes Conventional

- To use the KPG-D2 via LAN connection, users must set an authentication password for the KPG-D2 on the web tool. (Hardware version 2 only)
- Password authentication is required when the KPG-D2 connects to the repeater via LAN for communication. (Hardware version 2 only)
- Users who only use the KPG-D2 via USB serial connection do not need to set the password beforehand.

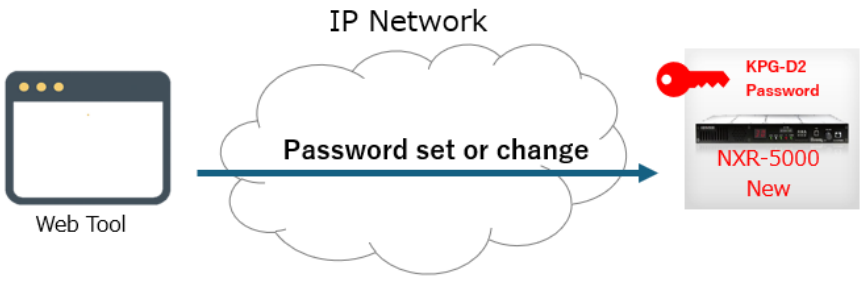
When using only the KPG-D2/USB serial connection (COM)

・Users do not need to set a password and can use the service as usual.

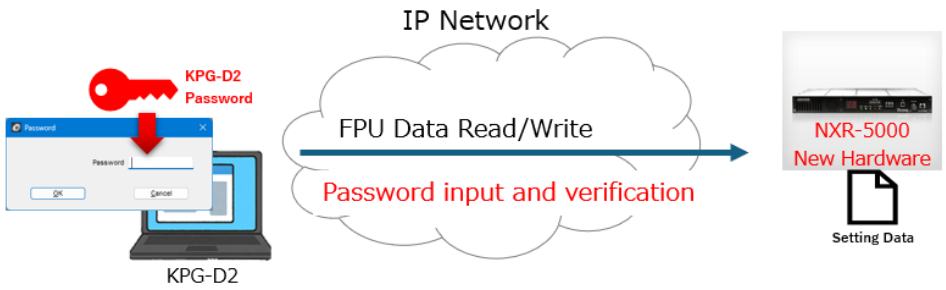


When using KPG-D2/LAN connection (Hardware version 2 only)

Step 1: Access the Web Tool via the Web browser and set the password.



Step 2: Password authentication is required to read/write from the KPG-D2 over LAN connection.



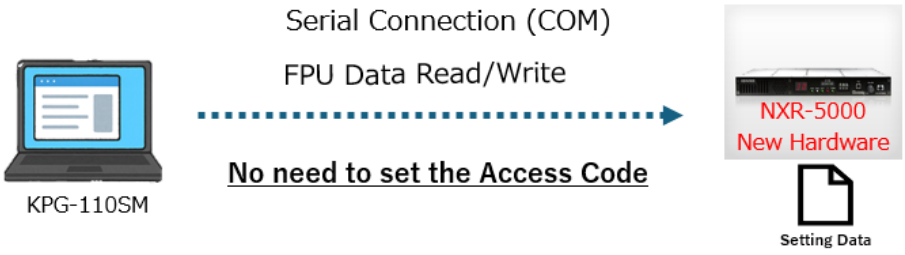
2.5. Changes Gen1 Trunking

Site including Hardware Version 2

- KPG-110SM requires access code settings for LAN communication.
- Access Code is used as an authentication password for KPG-110SM.
- KPG-110SM must connect to Hardware Version 2 when rewriting/monitoring data via USB.

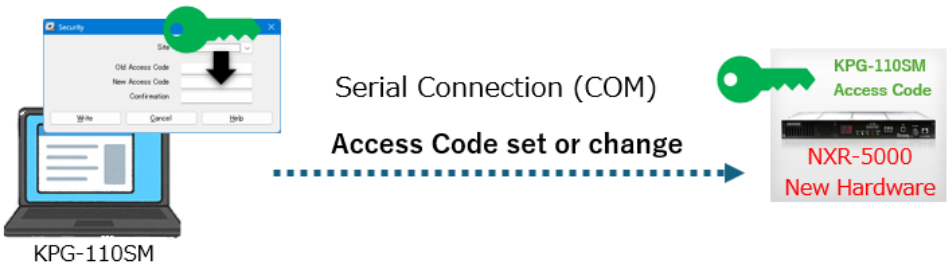
When using only KPG-110SM/USB serial connection (COM)

- Access Code setting for Site is not required.
- However, if NXR-5000 of new and current hardware exists in Site, serial connection must be made to the new hardware.

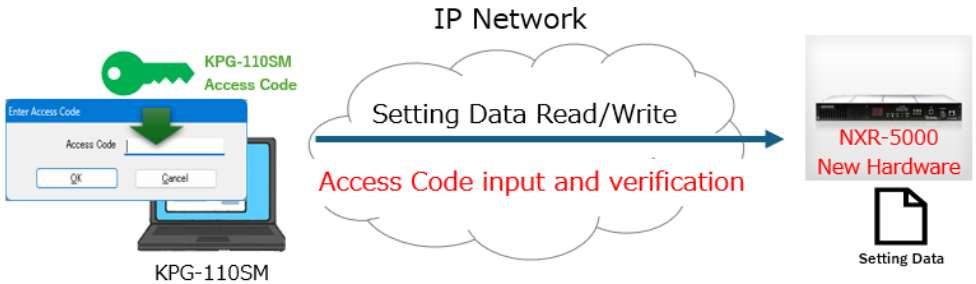


When using KPG-110SM/LAN connection (hardware version 2 only)

Step 1: Configure an access code to Site via USB serial connection.



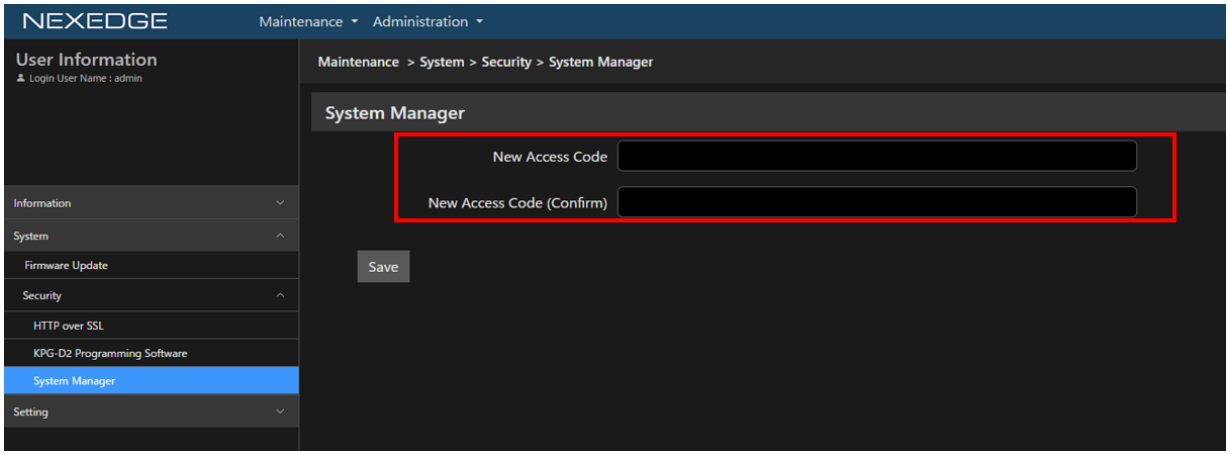
Step 2: Access code authentication is required to read/write from the KPG-110SM via LAN.



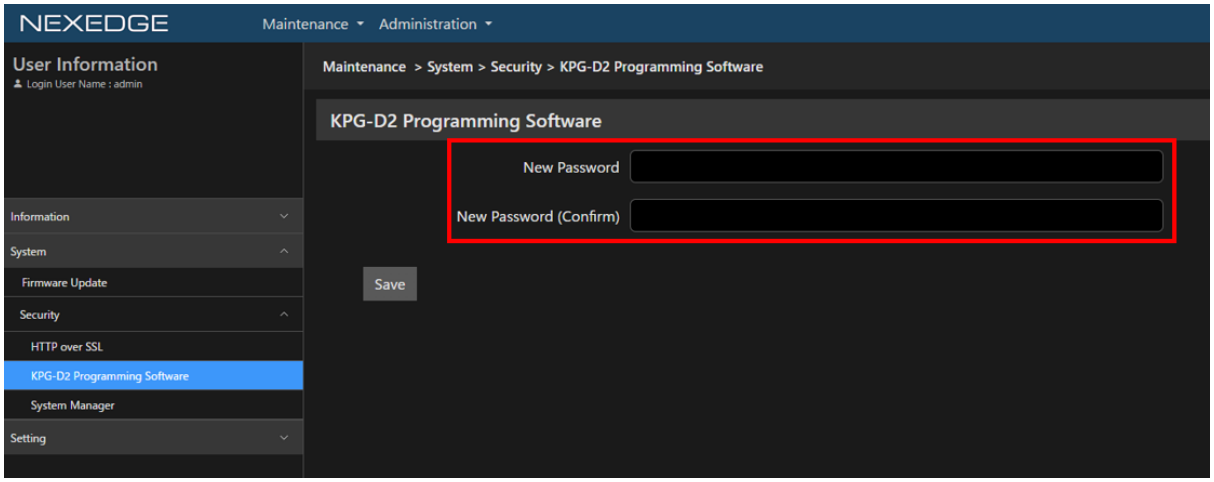
2.6. Add password setting (Web Tool)

Only in hardware version 2, Users need to set the password in the repeater Web Tool for the respective connecting PC software.

- Repeater Access Code setting for KPG-110SM



- Repeater Password setting for KPG-D2



2.7. Firmware version transition

- New hardware has been added from this upgrade, and the firmware version for Gen1 and Gen2 is as follows.

  - For Gen1, since Version 5.50, 2 separate versions of new and current firmware have been released for the same version.
    "S" is added to the beginning of the version number for new hardware.

Gen1	
NXR-5000 Current Hardware	V 5.50
NXR-5000 New Hardware	S 5.50

  - For Gen2, since Version 2.00, 1 combined version of new and current firmware has been released.

Gen 2	
NXR-x00	V 6.90
NXR-5000 Old Hardware	V 6.60
NXR-5000 New Hardware	V 6.60
KPG-1000SY/1001ST/1002GW/1003NS/1005RG	V 2.00

*Combined firmware
Gen2 firmware is integrated firmware for multiple firmware such as System Controller, Site Controller, NXR-x00 and NXR-5x00.

- The firmware version transition is below.
  Current HW: Current hardware, New HW: New hardware

Firmware	Gen1		Gen2 (* Combined Firmware)	
	Current HW	New HW	Current HW	New HW
Current	V5.32	-	V1.93	-
↓	↓	-	↓	-
Security Supported Version	V5.50	S5.50 Mix(current and new)	V2.00 Mix(current and new)	
↓	↓	↓	↓	
Future Version	V5.51	S5.51 Mix(current and new)	V2.01 Mix(current and new)	
↓	↓	↓	↓	

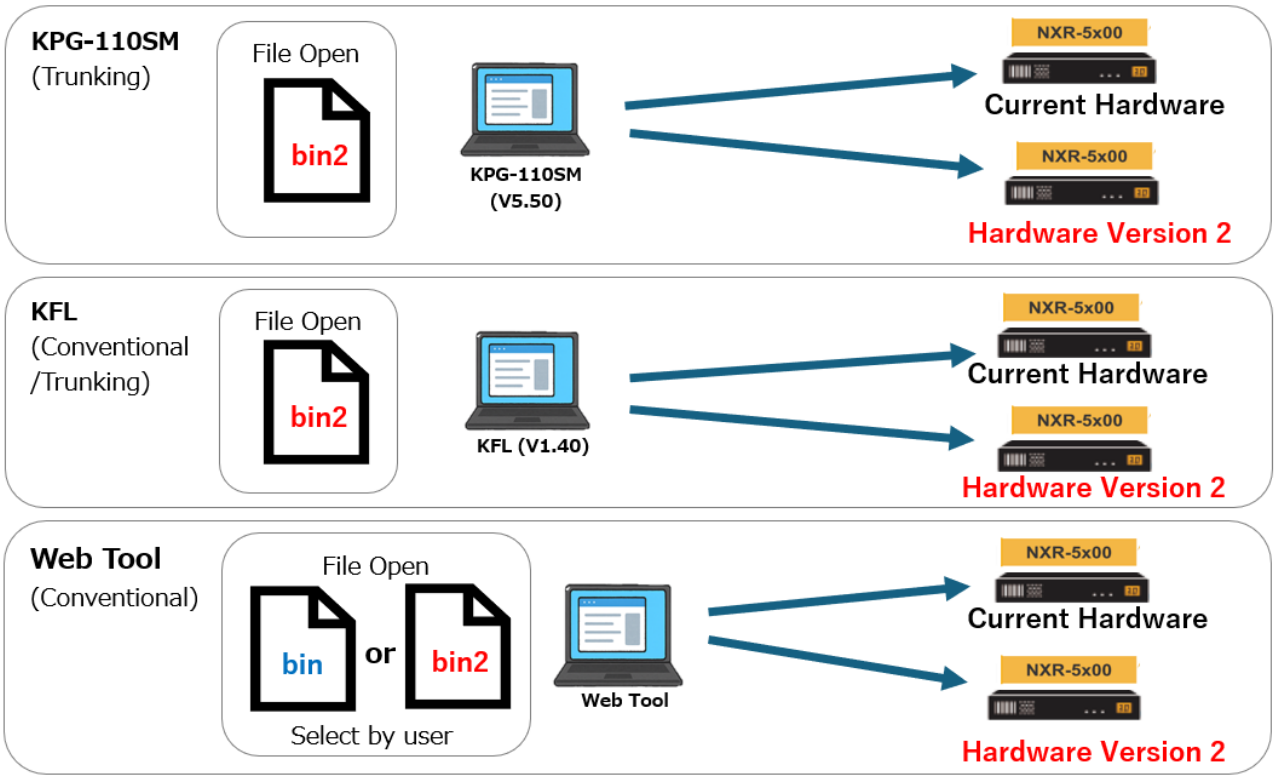
2.8. Firmware file and update method

The firmware of the NXR-5000 is written by each writing tool to the new and current hardware as follows.

- Gen1: 2 firmware for the NXR-5K

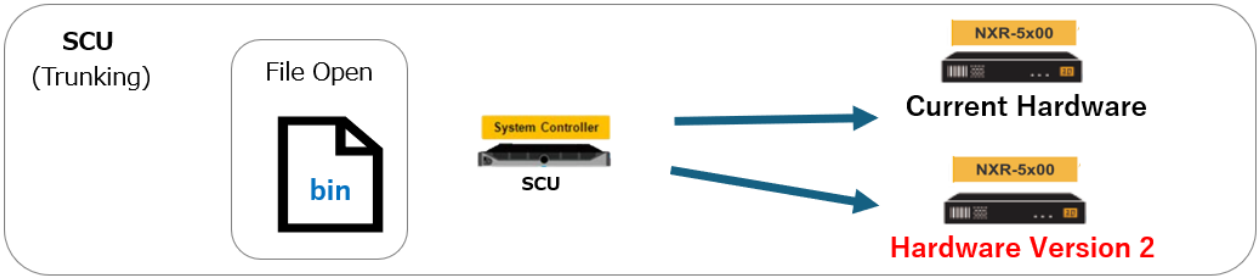
  - extension ".bin2" > This file includes firmware for **both the current hardware and hardware version 2**.
  - extension ".bin" > This file includes firmware for the current hardware.

  KPG-110SM, KFL can automatically identify and update new and current hardware



- Gen2: 1 firmware for NXR-5K
  Gen2 system can automatically identify and update new and current hardware

  - extension ".bin" > Integrated firmware

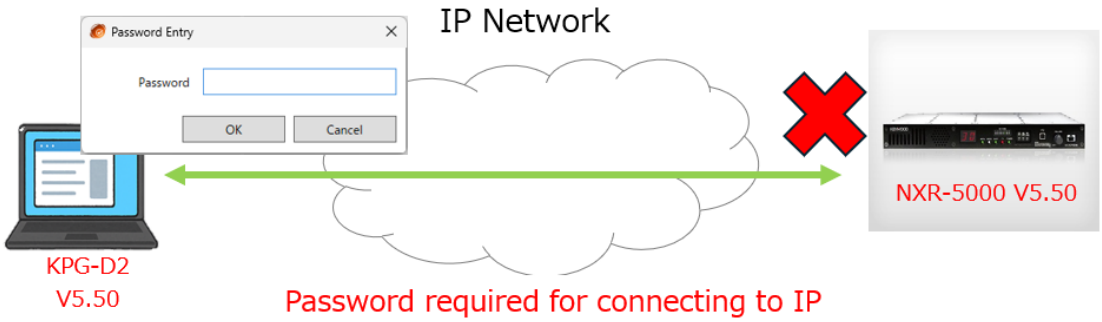


3. Changes PC applications

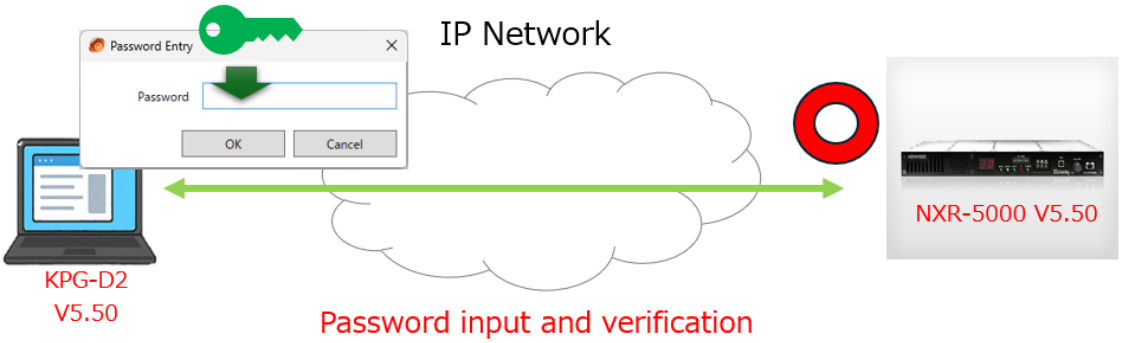
3.1. KPG-D2 (Field Programming Unit (FPU)) Changes

KPG-D2 version is 5.50.
From this version, the Password setting for IP connection is added.
When the Hardware Version2 is connected to KPG-D2 Version 5.50 via IP, the password request dialog appears. This password uses the password for KPG-D2 that was previously set on the Web Tool.
KPG-D2 can be used only when the correct password is entered.

< Password request for IP connection >
KPG-D2 cannot operate when the password is requested.



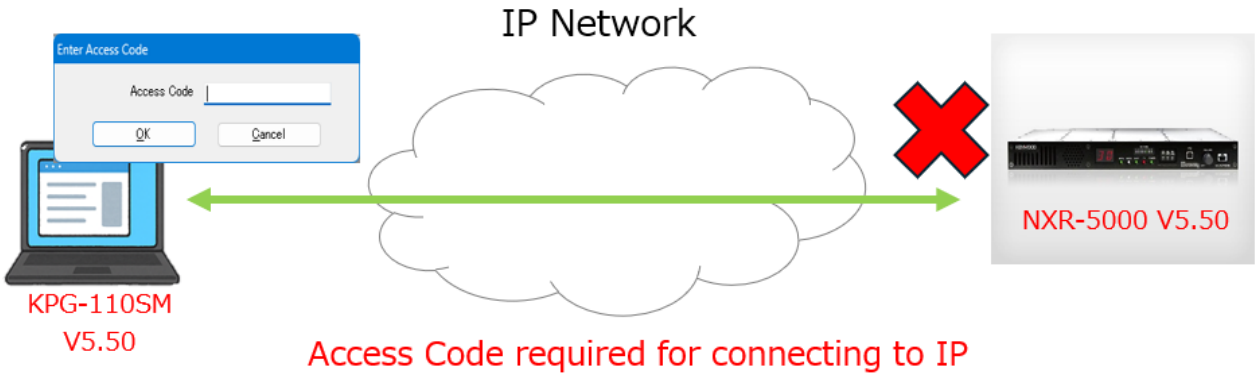
< Password input and verification >
KPG-D2 becomes operational when it matches the password set in the repeater.



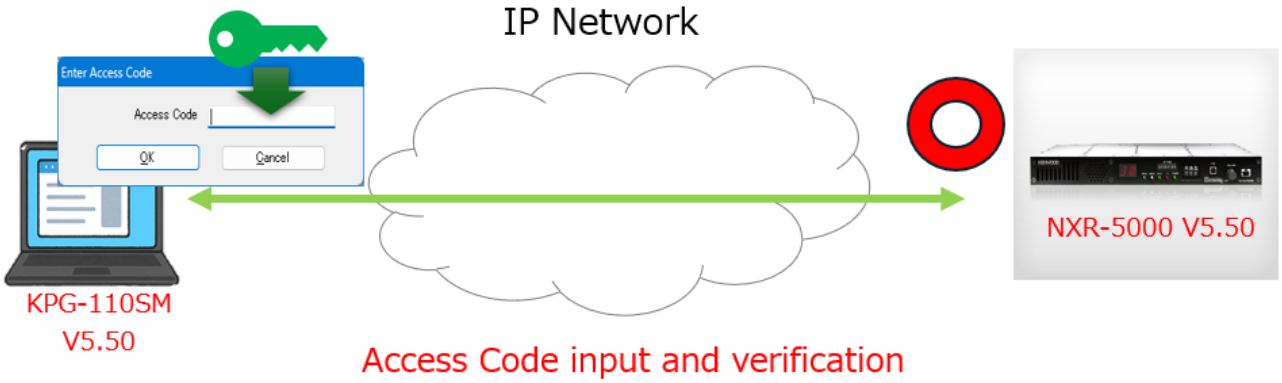
3.2. KPG-110SM (System Manager) Changes

KPG-110SM version is 5.50.
From this version, the Enter Access Code setting for IP connection is mandatory.
In case of Hardware Version 2 exists in the Site, when the NXR-5000 Firmware version 5.50 is connected to the KPG-110SM version 5.50 via IP, the Enter Access Code request dialog appears.
The Access Code must be configured in advance on KPG-110SM via a serial connection.
The KPG-110SM can be used only when the correct Access Code is entered.

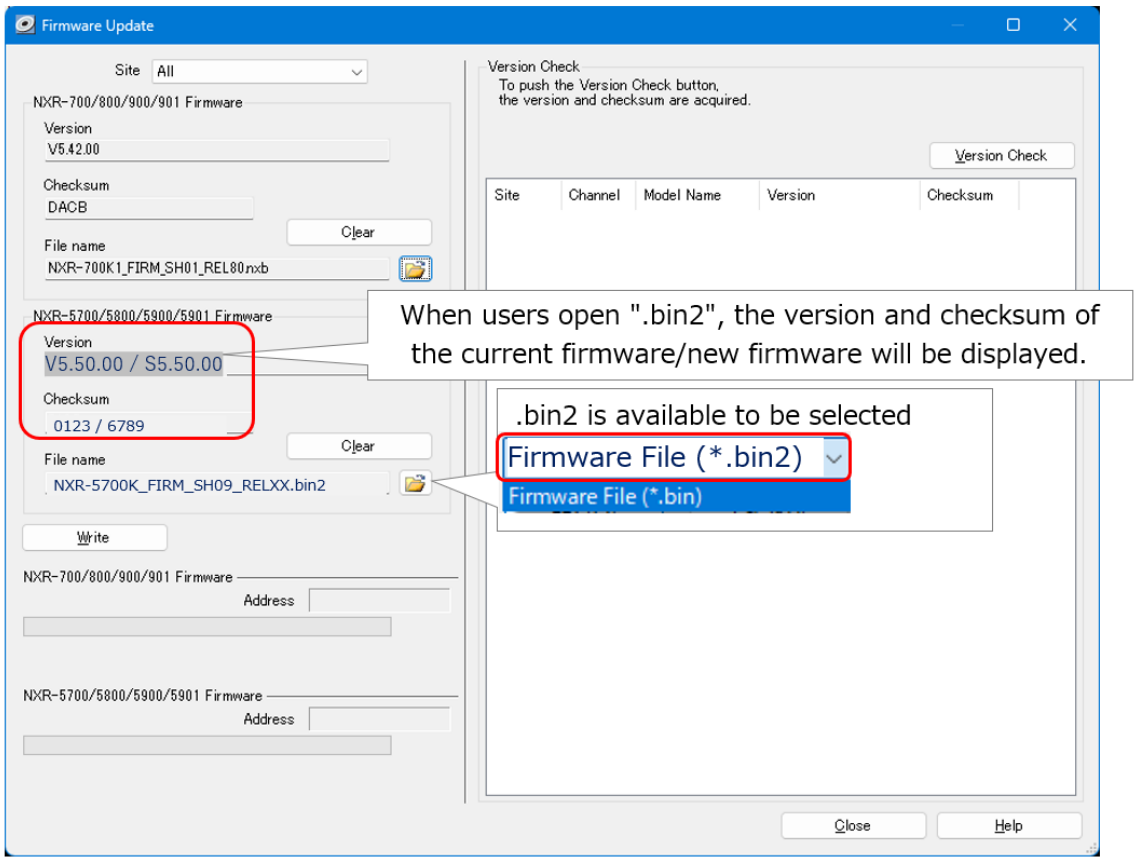
< Access Code request at IP connection >
KPG-110SM cannot operate when the Access Code is requested.



< Access Code input/matching >
KPG-110SM is operational when it matches the Access Code configured for the repeater.

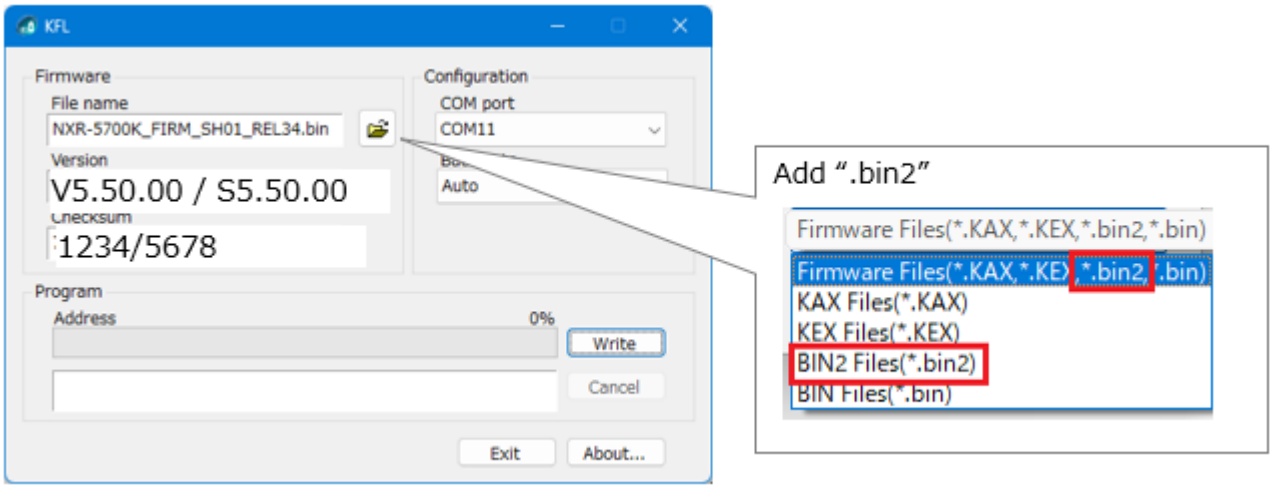


For Gen1 Trunking, KPG-110SM V5.50 supports mixed firmware (bin2 file) with Firmware selection on NXR-5x00.
When the bin2 file is opened, both "current repeater/new repeater" version information is displayed.



3.3. KFL(KENWOOD Firmware Loader) Changes

For Conventional/Gen1 Trunking, KFL V1.40 supports bin2 extension in addition to bin when opening the repeater firmware.
KFL automatically identifies new and current hardware and writes bin file for current hardware or bin2 file for new hardware (hardware version 2).



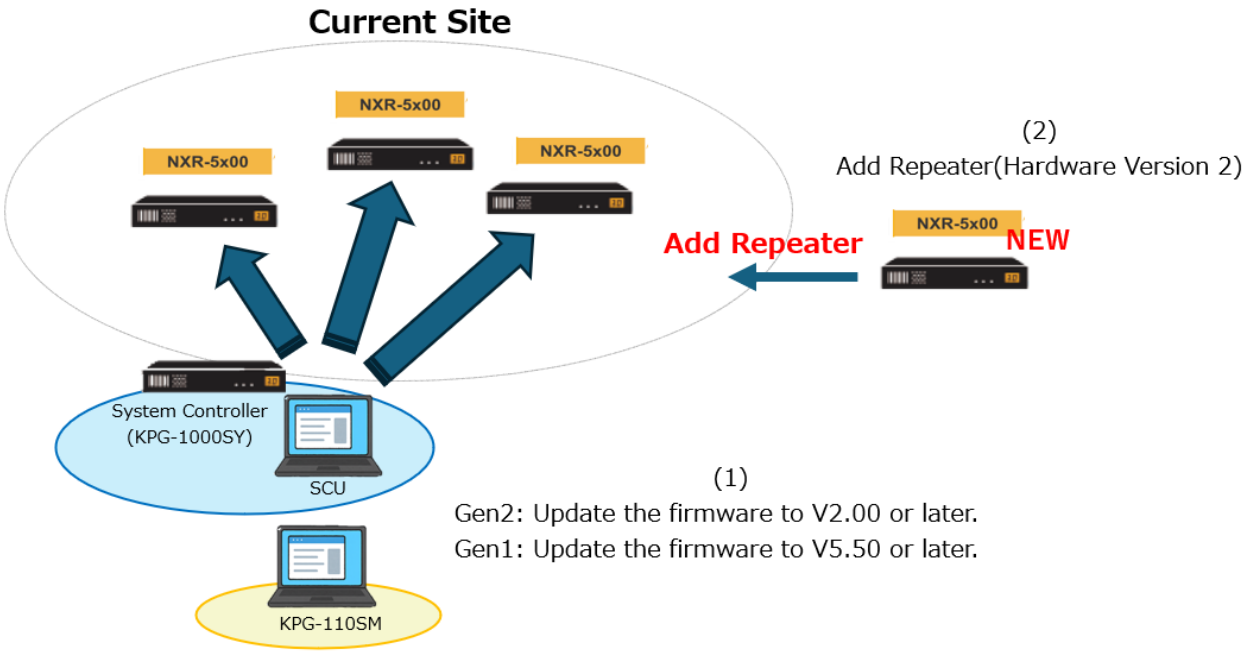
4. Add new hardware

4.1. Notes to add new hardware (hardware version 2)

- If it's adding Hardware Version 2 to current system, note the following:

(1) Before adding new hardware, users must update to the latest firmware. (Hardware Version 2 will not recognize your current system.)
(2) The added repeater must be Hardware Version 2.

< Supported firmware version >
Gen2=V2.00 or later
Gen1=V5.50 or later



Revision History

Version	Date of issue	Note
1.00	16th February 2026	First Release
1.01	27th February 2026	Corrected some sentences in "2.6 Add password setting (Web Tool)"