

NEXEDGE®

Release Notes

Information for June 2023 update

NX-5000 Series R5.10

KPG-D1/D1N R5.10

NX-3000 Series R4.10

KPG-D3/D3N R4.10

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1. Release information

This Release Note is to introduce additional functions of NX-5000 series and KPG-D1/D1N (R5.10), and NX-3000 series and KPG-D3/D3N (R4.10), of which update is scheduled in June 2023. In this document, "SU" shows "Subscriber Unit".

1.1. Telephone Call (via the repeater)

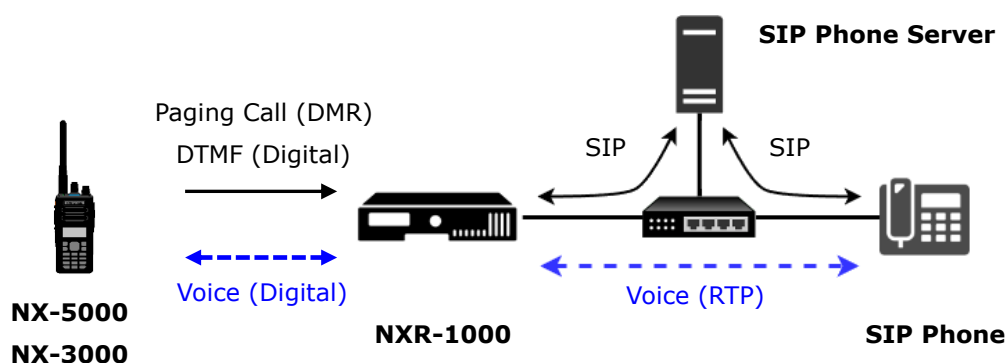
Applicable System

NXDN Conventional / NXDN Site Roaming

DMR Tier II Conventional / DMR Site Roaming

Function Overview

The Subscriber Unit (SU) can send a connection request to a SIP Phone to a Repeater connected to a SIP Phone Server. DTMF codes or Paging Call is sent via digital communication within a session to establish a connection with a PABX/PSTN SIP Phone. Once the connection is established, the SU and the SIP Phone can communicate via the Repeater. It is also possible that the SIP Phone initiates a call to the SU.



Protocol	Paging Call	DTMF Dialing
DMR	Yes	*See Note 1
NXDN	n/a	Yes

Note 1

DTMF Dialing is available with the NXDN single-site, NXDN multi-site, and DMR single-site system, but it will be supported for the DMR multi-site system in the future update: NX-5000 and NX-3000 updates by the end of 2023.

Note 2

Please note that your Repeater must support this function, and a SIP Phone Server must be prepared. The following model(s) are scheduled to support this function at the time of publication of this document:

[Supported Repeater]

NXR-1000 Series (Software Version after Version 2.0 or later)

1.2. Radio Access Control

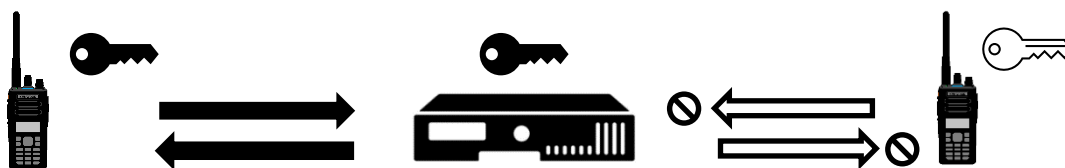
Applicable System

NXDN Conventional

NXDN Site Roaming

Function Overview

This function prevents unauthorized access to the Repeater by registering a Private Authentication Key to the Subscriber Unit (SU) and the Repeater. If the key is not matched, the NXDN protocol communication cannot be established between the SU and the Repeater, and voice and data communication will not be allowed. This function can be used together with the Encryption function.



Please note that your Repeater must support this Radio Access Control function.

The following model(s) are scheduled to support this function at the time of publication of this document:

[Supported Repeater]

NXR-1000 Series (Software Version after Version 2.0)

1.3. Out of Range Indicator

Applicable System

NXDN Conventional

NXDN Site Roaming

Function Overview

This function detects and informs users that they are out of a communication service area in an environment where a Repeater periodically sends a beacon (ex., Site Roaming System, etc.). When the Subscriber Unit (SU) fails to receive the beacon or an NXDN signal for a certain period, this Out of Range Indicator displays the notification on the SU display or notifies with a tone.

1.4. Group Registration Timer

Applicable System

NXDN Trunking

Function Overview

This function allows automatic Group Registration after a predetermined time has elapsed. With the NXDN Trunking System, the registration information of Group IDs that have not been used for a certain period will automatically be deleted. In such a case where a Subscriber Unit (SU) is used only for a receiving purpose, once its Group ID registration is deleted, it cannot receive subsequent Group ID calls anymore, for example. For such a case, using this function, execute the Group Registration again before the deregister happens and keep the Group ID registration alive.

2. Compatibility of programming software

2.1. KPG-D1/D1N

This section describes the compatibility of previous version of Firmware and programming software (KPG-D1/D1N).

[Definition]

Open:	Opening a Data File by programming software
Read:	Reading programming data from subscriber unit
Write:	Writing programming data to subscriber unit
New Data:	A data file was generated by programming software Version 5.10
Old Data:	A data file was generated by programming software version prior to 5.01

2.1.1. Compatibility of Opening a Data File

			Definition	New Data	Old Data
KPG-D1/D1N	Version	5.10	Open	✓	✓
		Prior to 5.01	Open	N/A	✓

2.1.2. Compatibility of Writing and Reading a Data File

			Definition	Firmware/ NX-5000 series	
				5.10	Prior to 5.01
KPG-D1/D1N	Version	5.10	Read	✓	✓
			Write	✓	✓*1
		Prior to 5.01	Read	N/A	✓
			Write	✓	✓*1

***1:**

writable

- In case if unsupported functions for older firmware are not included.
- In case that there will not be a possibility to cause trouble even if unsupported functions for older firmware are included. The warning message will be shown.

unwritable

- In case that there will be a possibility to cause trouble if unsupported functions for older firmware are included. This case, the error message will be shown.

2.2. KPG-D3/D3N

This section describes the compatibility of previous version of Firmware and programming software (KPG-D3/D3N).

[Definition]

Open: Opening a Data File by programming software

Read: Reading programming data from subscriber unit

Write: Writing programming data to subscriber unit

New Data: A data file was generated by programming software Version 4.10

Old Data: A data file was generated by programming software version prior to 4.01

2.2.1. Compatibility of Opening a Data File

			Definition	New Data	Old Data
KPG-D3/D3N	Version	4.10	Open	✓	✓
		Prior to 4.01	Open	N/A	✓

2.2.2. Compatibility of Writing and Reading a Data File

			Definition	Firmware/ NX-3000 series	
				4.10	Prior to 4.01
KPG-D3/D3N	Version	4.10	Read	✓	✓
			Write	✓	✓*1
		Prior to 4.01	Read	N/A	✓
			Write	✓	✓*1

***1:**

writable

- In case if unsupported functions for older firmware are not included.
- In case that there will not be a possibility to cause trouble even if unsupported functions for older firmware are included. The warning message will be shown.

unwritable

- In case that there will be a possibility to cause trouble if unsupported functions for older firmware are included. This case, the error message will be shown.

3. Product Version

Product	Supported Version in Release
Subscriber Units: NX-5000 Series	5.10 or later
Programming Software for NX-5000 Series: KPG-D1/D1N	5.10 or later
Subscriber Units: NX-3000 Series	4.10 or later
Programming Software for NX-3000 Series: KPG-D3/D3N	4.10 or later

Revision History

Version	Date of issue	Note
1.00	2 nd June 2023	First Release
1.01	20 th July 2023	1.1. Telephone Call (via the repeater) - Rename the title. - Add a note about DTMF Dialing.