KENWOOD

NEXEDGE®

Release Notes

NXR-1000 series	**Ver.2.1**
KPG-D7	**Ver.2.1**
KAS-20	**Ver.3.17**

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Contents

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1. Release information

This Release Note describes additional features of the NXR-1000 series and KPG-D7/D7N (ver. 2.10) and updates information on the KAS-20 (ver. 3.17) which will be released in December 2023.

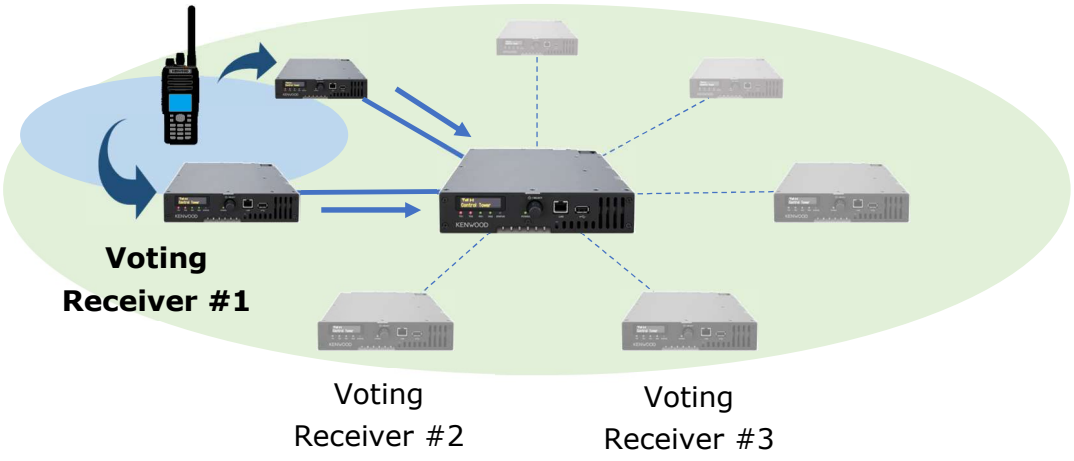
1.1. NXR-1000 Series Upgrade

1.1.1. Voting Feature

Functional Overview

There is a case where transmission of the Subscriber Unit fails to reach the Repeater even when the Subscriber Unit is in the Communication Area of the Repeater. This happens when the transmission output of the Subscriber Unit is low in comparison with that of the Repeater.

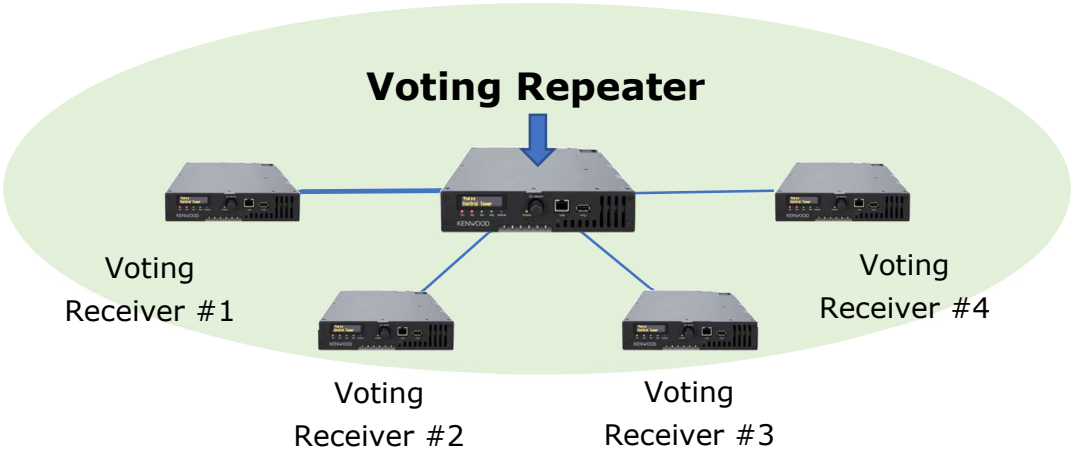
To deal with such matters, several units of Voting Receivers, a dedicated component for receiving a transmission, are to be placed so that the Voting Receivers relay the Uplink from the Subscriber Unit to the Repeater via an IP, and the coverage of the Subscriber Unit is complemented.



Moreover, a component that receives data from the Voting Repeater and repeat transmits the received data is called a Voting Repeater. The Voting Repeater selects a transmission with a good reception level from transmissions transferred from the Voting Receivers and receiving itself, and repeat transmits the selected transmission.

A system that is composed of the Voting Repeater and several units of the Voting Receivers is called a Voting System. Up to 15 units of Voting Receivers can be connected to one Voting Receiver.

Voting System



Please see the required Radio Feature Licenses:

Component	Radio Feature License
Voting Repeater	Voting Repeater (KWD-NX10VR) Conventional IP Network (KWD-NX10MS)
Voting Receiver	Conventional IP Network (KWD-NX10MS)

NB:

- In the NXDN Conventional mode, the Voting System using the NXR-1000 Series and the NXR-x10 series can be established.
- In the Analog Conventional mode, the Voting Receiver relays voice and QT/DQT signaling.

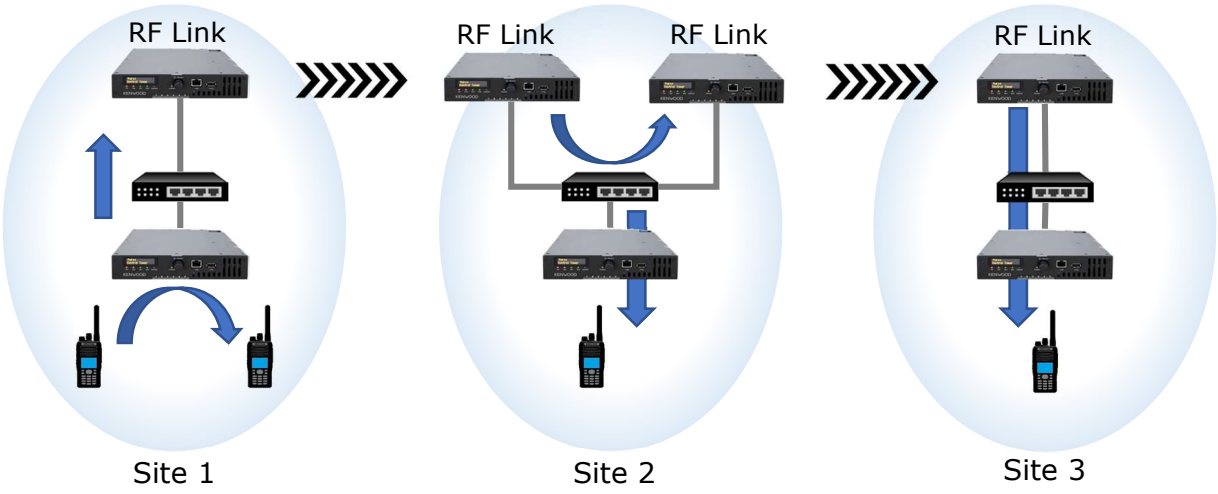
Applicable Systems

NXDN Conventional
DMR Tier II Conventional
Analog Conventional

1.1.2. RF Link Feature

Functional Overview

RF Link Feature transfers Inter-site Calls using RF (Radio Frequency), which is used when an IP network cannot be prepared for Inter-site communication. The component required for this RF transfer is called an RF Link Repeater.
The RF Link Repeater should be configured to use the Digital Channel (NXDN or DMR).



Please see the required Radio Feature Licenses:

Component	Radio Feature License
NXDN RF Link Repeater	NXDN Conventional (KWD-NX10NC) Conventional IP Network (KWD-NX10MS)
DMR RF Link Repeater	DMR Conventional (KWD-NX10DC) Conventional IP Network (KWD-NX10MS)

NB: In the NXDN Conventional mode, RF Link using the NXR-1000 Series and the NXR-x10series can be established.

Applicable System

NXDN Conventional
DMR Tier II Conventional
Analog Conventional (*1)

*1: The RF Link Repeater needs to use the Digital Channel, however, it can transfer Analog Inter-site Calls (voice only) from the other repeaters.

1.1.3. NXDN Voice Logging

Functional Overview

This is for the Voice Logging feature in the NXDN Mode. Using a Voice Logging Interface (VLI) allows packet transfer to a Voice Logger (3rd party voice record application).
NB: The VLI specification in the NXDN Mode and that in the DMR Mode are different.

1.1.4. Licenses

The following License will be added from the December 2023 upgrade.

Radio Feature License

License Key	Description	System (*1)
KWD-NX10VR	・Voting Repeater License ・Necessary to function as the Voting Repeater. **NB**: Conventional IP Network (KWD-NX10MS) is also necessary if you wish to use it with the Voting Repeater.	Common

(*1): "Common" in the System Column means that the License can be used with any system (DMR Conventional, NXDN Conventional, and Analog Conventional Systems).

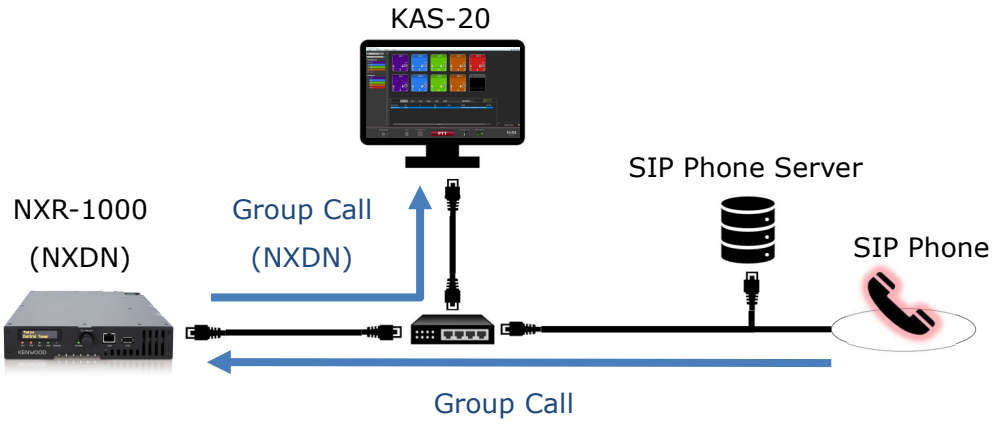
1.2. KAS-20 Update

1.2.1. Receiving NXDN Group Call from SIP Phone

Overview

From the December 2023 Update, KAS-20 can receive Group Calls made from SIP Phones in the NXDN Conventional mode.

NB: The DMR Conventional mode has already been compatible with the Group Call reception made from the SIP Phones.



2. Product Version

Product	Supported Version in Release
Repeater: NXR-1000 Series	2.10 or later
Programming Software for NXR-1000 Series: KPG-D7/D7N	2.10 or later
AVL and Dispatch Software: KAS-20S/C	3.17 or later

Revision History

Version	Date of issue	Note
1.00	30 November 2023	First Release