

# Kenwood NXR-1000 NXDN

Kenwood NXR-1000 NXDN



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# 1 Notices

## 1.1 Proprietary notice

The product information and design disclosed herein were originated by and are the property of Electro-Voice Dynacord, LLC. Electro-Voice Dynacord reserves all patent, proprietary design, manufacturing, reproduction, use and sales rights thereto, and to any article disclosed therein, except to the extent rights are expressly granted to others.

## 1.2 Copyright notice

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\*All other trademarks are property of their respective owners.

## 1.3 Warranty notice (limited)

For warranty and service information, see <http://www.telex.com/warranty>.

## 1.4 Factory service center

Factory Service Center  
Electro-Voice Dynacord, LLC  
Radio Dispatch Products  
140 Caliber Ridge Drive  
Greer, SC 29651

## 1.5 Contact information

### Sales

E-mail: [TelexDispatch@keenfinity-group.com](mailto:TelexDispatch@keenfinity-group.com)

Phone: (800) 289-0096

### Customer service repair

E-mail: [repairservice.nam@keenfinity-group.com](mailto:repairservice.nam@keenfinity-group.com)

Phone: (800) 289-0096

### Technical support

E-mail: [TelexDispatchtechsupport@keenfinity-group.com](mailto:TelexDispatchtechsupport@keenfinity-group.com)

Knowledge database: <http://knowledge.keenfinity-group.com/>

Web: [www.telex.com](http://www.telex.com)

## 1.6 Claims

No liability will be accepted for damages directly or indirectly arising from the use of our materials or from any other causes. Our liability shall be expressly limited to replacement or repair of defective materials.

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## 1.7

### Warning

**Notice!**

This is a class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

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## 1.8

### PC & Network Security consideration

No system can be 100% protected against security threats. However, there are measures both manufacturers and users can do to help reduce the likelihood of a malicious attack resulting in either the loss of data or system takeover. We evaluate and improve our products continuously to protect against such attacks. This is only one safeguard used to reduce the likelihood of such an event. There are many more considerations needed to implement measures to strengthen your network security.

We strongly recommend the following considerations:

- Deploy Dispatch products and software on isolated networks that do not connect to other networks, when possible.
  - Apply the latest Windows updates and install up-to-date IT security software.
  - User rights should be properly administered using group policies to prevent unauthorized use of USB connected devices.
  - If the Dispatch network must connect to other networks, install and properly maintain firewalls and intrusion detection systems.
  - If Dispatch devices or computers use the Internet to connect, a VPN or tunnel connection should be utilized. Examples of such products are those made by DCB (Data Communications for Business), Cisco, and others.
- 

**Notice!**

Bosch recommends utilizing the services of IT professionals knowledgeable about network design and security when designing, installing, and configuring dispatch networks and deploying PCs. By default, the Telex Dispatch products using the Windows operating system has Windows Update enabled along with Windows Defender (firewall and anti-virus). Disabling these features is not recommended unless it is part of an internal IT security program that uses customized security policies along with appropriate anti-virus and firewall software.

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## 2 Overview

This document contains the installation notes for adding the Kenwood NXR-1000 Conventional NXDN interface option to C-Soft 8.500. The document describes the NXR-1000 Conventional NXDN feature set and how to configure the Conventional NXDN interface between the NXR-1000 Node and C-Soft.

### 3 Feature Set

The C-Soft NXR-1000 Conventional NXDN interface currently supports the following feature set for Kenwood NXR-1000:

- Supports connection to up to 24 Conventional NXDN compatible repeaters
  - Each repeater connection is configured with a name, IP Address, System Type, Vendor, Connection Port (e.g. NXR1800, 172.19.50.80, Conventional, Generic, 5060), Authentication Password, and Registration interval.
- Supports up to 24 Conventional NXDN Interface lines
  - An NXDN Interface line connects to a specific repeater. The line is configured with a connection, type (group or individual), and a list of affiliated group or individuals.
  - Each line can be configured to accept audio from one to 100 talk groups.
- Send and Receive Group Calls
  - Group Call is sent by selecting the corresponding Select button and then the Keypad to select the group and then pressing either InPTT or Main PTT button.
  - Select Button displays ANI and/or Alias of incoming calls.
- Send and Receive Individual Calls
  - An Individual Call is sent by selecting the Line Select and then using the keypad select the individual you want to talk to and then pressing either InPTT or Main PTT button.
  - Select Button displays ANI and/or Alias of incoming calls.
- Send Annunciations
  - Send audio from a .wav file on a Conventional NXDN line using the Annunciation button.
- Cross patching
  - C-Soft can crosspatch audio from a Conventional NXDN line to any other line type supported by C-Soft.
- Receive Emergency Notifications
  - Supports receiving both Emergency Calls and Emergency Alerts.
- Send and Receive Status Messages
  - Status Message is sent by selecting a group from the Keypad control and then entering the desired text into the Status Message Control. The message is sent when the Send button in the Status Message Control is clicked.
  - Status Messages can be sent to a group but not to an individual.
- Send Radio Enable/Disable Commands
  - Radio Enable/Disable commands can only be set on lines configured for Individual operation.
  - Radio Enable/Disable commands are sent by selecting a user from the Keypad control and then clicking either the Radio Enable, or the Radio Disable button.
- Send Radio Check Command
  - Radio Check command can only be sent on lines configured for individual operation.

- Radio Check command is sent by selecting a user from the Keypad control and then clicking the Radio Check button.
- Send Remote Monitor Command
  - Remote Monitor command can only be sent on lines configured for individual operation.
  - Remote Monitor command is sent by selecting a user from the Keypad control and then clicking the Remote Monitor button.
- Indication of parallel console transmissions
  - Parallel Consoles are configured in C-Soft Designer by going to Edit | Setup Global Parameters | Local Consoles and entering the subscriber IDs of the parallel consoles in the Direct IP Console Subscriber IDs field.
  - Calls initiated from parallel dispatch consoles will display the 'T' icon on the receiving line's Select button.
- Cross muting of parallel consoles
  - When this option is enabled, calls initiated from parallel dispatch consoles display the 'XT' icon on the receiving line's Select button.
  - Calls from parallel consoles can be automatically muted by enabling the **Crossmute direct IP console subscriber IDs** field in Edit | Setup Global Parameters | Local Consoles.
- GPS Support

GPS Feature	NXR-1000
GPS Read(Standard Location Immediate Request)	X
GPS Trigger On(Triggered Location Reporting Request)	X
GPS Trigger Off(Triggered Location Reporting Stop Request)	X
Incoming GPS Data triggered from Radio	X
Incoming GPS Data triggered from Emergency Alarm	X
Incoming GPS Data triggered from Emergency Call	✓
GPS data during voice calls	✓

## 4 System Setup

To set up the Kenwood NXR-1000 Conventional NXDN interface, both the Kenwood NXR-1000 Node and C-Soft Designer must be configured for Conventional NXDN operation.

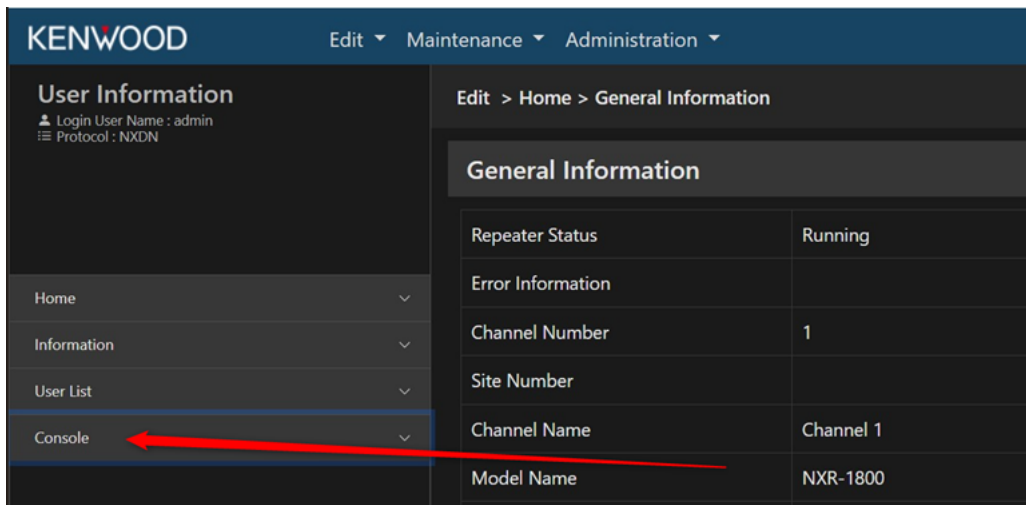
### Refer to

- User ID List, page 17
- Group ID List, page 17

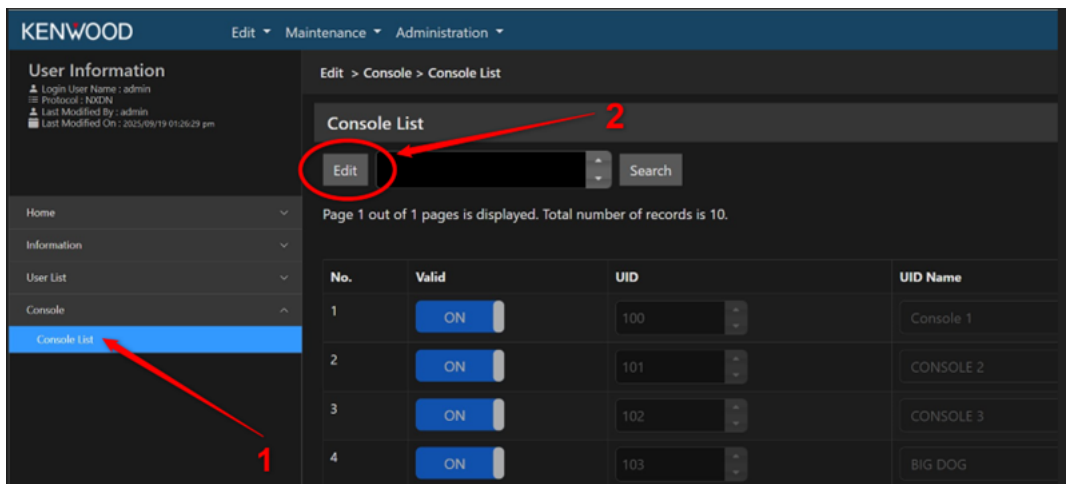
### 4.1 Kenwood NXR-1000 Node Setup

#### Create Console IDs

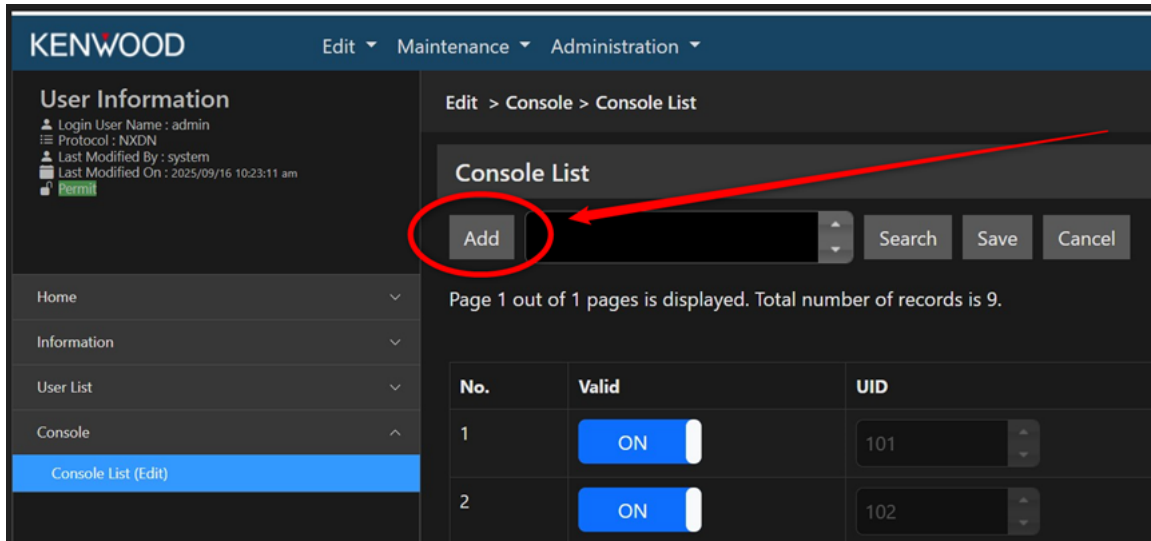
1. Type the IP address of the Kenwood NXR-1000 repeater into a web browser.  
The login page appears.
2. Log in to the system.



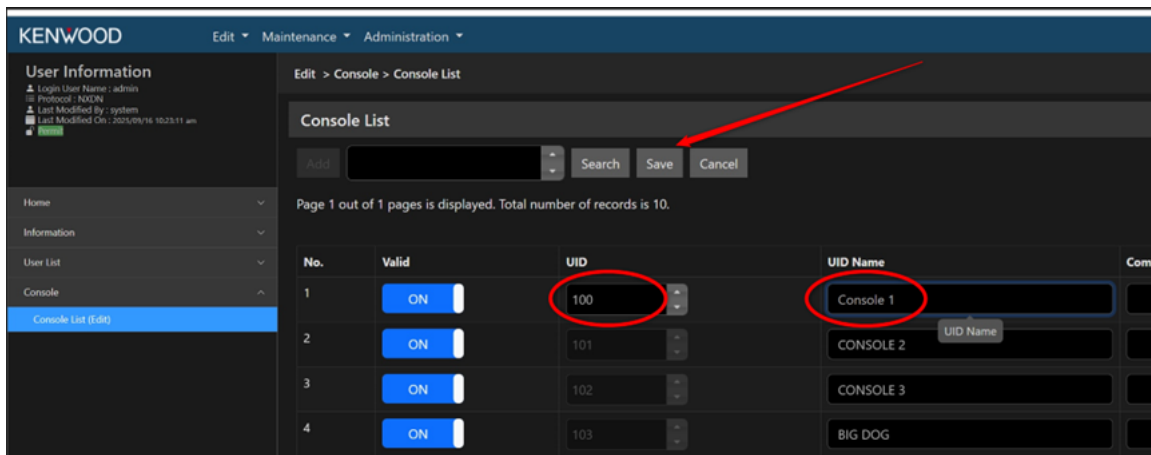
3. Click **Console** in the left navigation.



4. Click **Console List**.  
The Console List window opens. Use the Console List window to add or delete Console IDs.
5. Click **Edit**.  
An Add button appears.



6. Click **Add**.



7. Enter the **UID**.

8. Enter the **UID Name**.

9. Repeat **steps 7** and **8** until you finish entering your Console IDs.

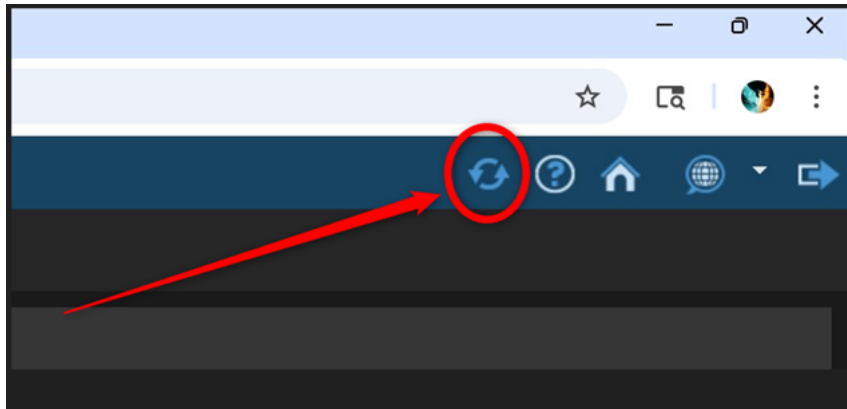
10. Click **Save**.



**Notice!**

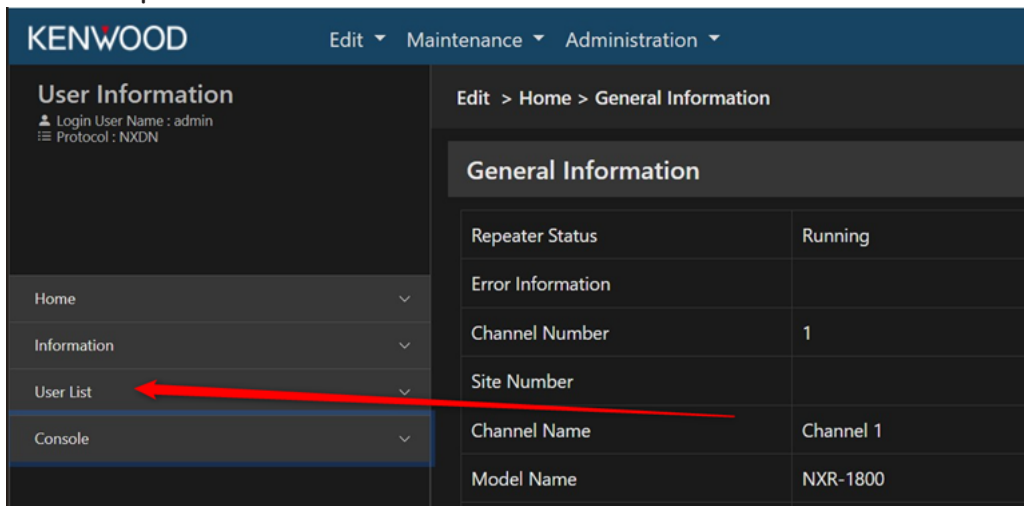
There is a maximum of 10 Console IDs per repeater.

11. Click the Send icon (two arrows pointing to each other in the top right of the window) to send the changes to the NXR-1000 repeater.

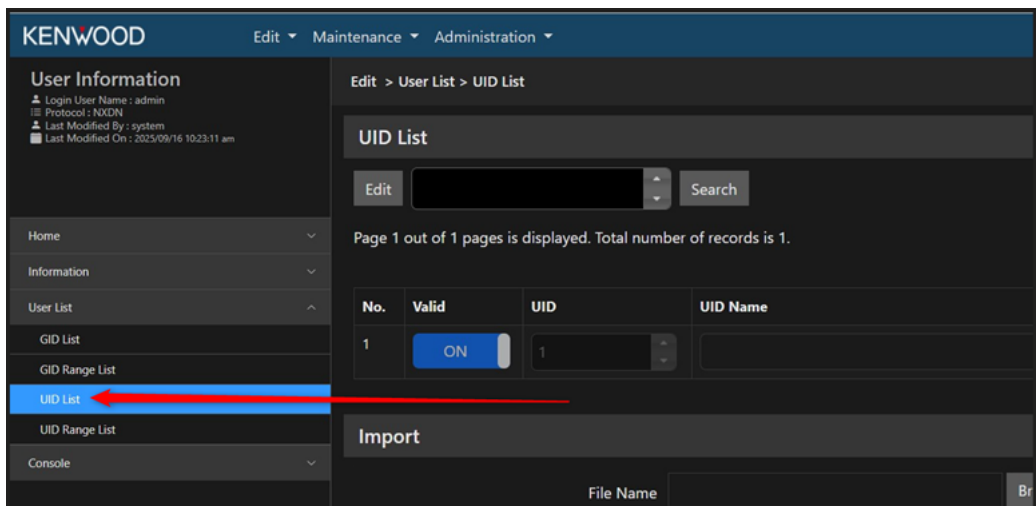


Once you finish creating the Console IDs the next step is to create Group IDs and User IDs.

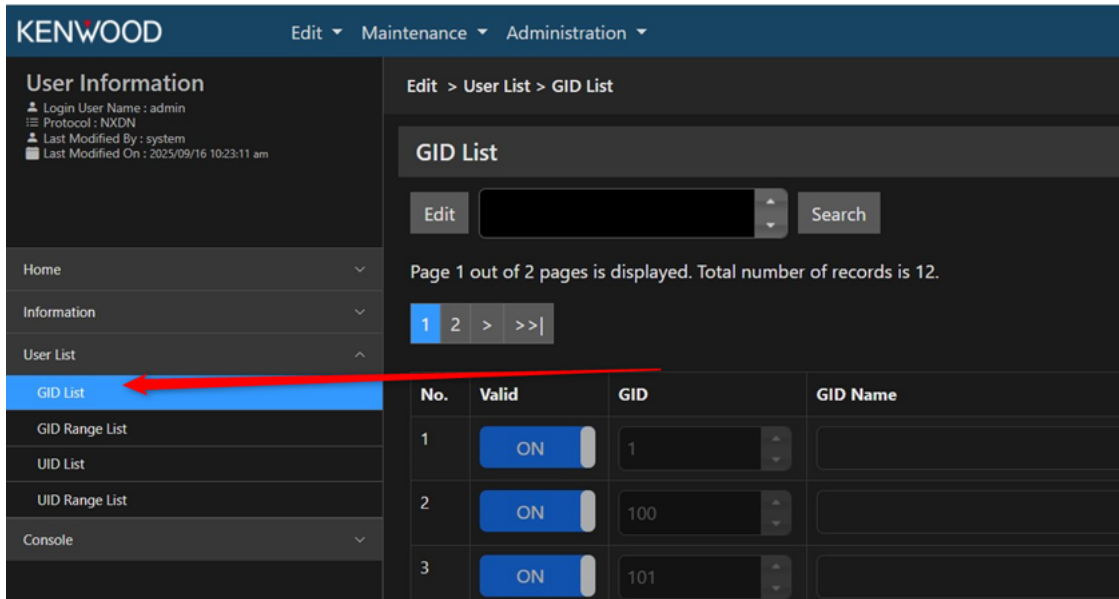
### Create Group and User IDs



1. Click **User List** in the left navigation.  
The User List item opens.



2. Click **UID List**.  
This is the area where you configure the User IDs for the Radio mobiles communicating with the NXR-1000.

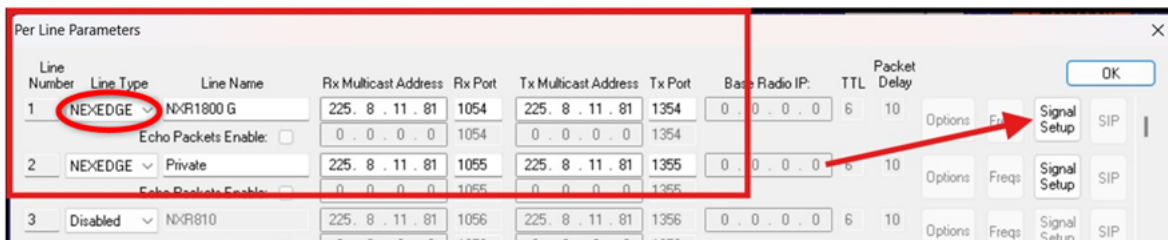


3. Click **GID List**.

This is the area where you configure the Group IDs for the Radio mobiles and Consoles that will be communicating through the NXR-1000.

## 4.2 C-Soft Designer Setup

1. Open **C-Soft Designer**.
2. Navigate to **Setup Per Line Parameters** (Edit | Setup Per line Parameters).
3. Select a **Line**.
4. From the Line Type drop down menu, select **NexEdge**.
5. In the Rx Multicast Address and Rx Port field, enter the **IP address and port**.
6. In the Tx Multicast Address and Tx Port field, enter the **IP address and port**.



7. Click **Signal Setup**.

The Signaling Parameters dialog opens.

Signaling Parameters: Line 1

**General Signal Setup** NEXEDGE Conventional Parameters

System Settings

System Type: NEXEDGE Conventional

System Name: Default NEXEDGE Conv

Signaling AutoFill Setup

Enable Signaling AutoFill

Starting Line Number: 1

Ending Line Number: 1

Call Logging

Display All Calls

8. Verify that **Nexedge Conventional** is chosen.
9. Click the **Nexedge Conventional Parameters** tab.

Signaling Parameters: Line 1

General Signal Setup **NEXEDGE Conventional Parameters**

Parameters that apply to this line

Console call parameters

Call Type: Conference Call

Encryption Key: Unit Call

Talk Group Number: 1

RAN Encode 0

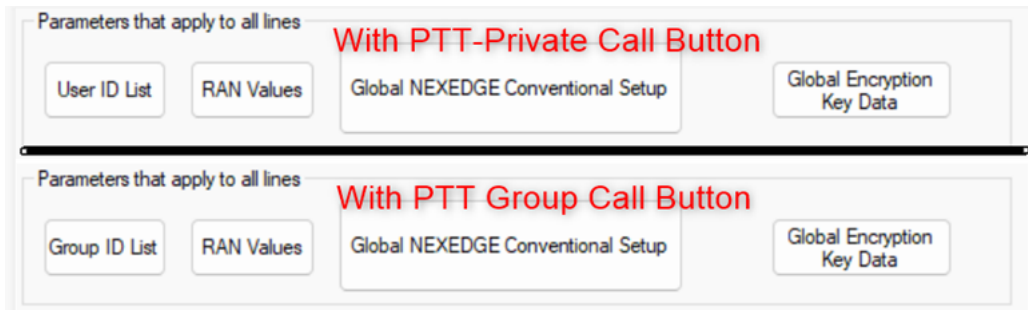
System site parameters

Site Number: 101

Site Ip Address: 172 . 19 . 1 . 20

Parameters that apply to all lines

10. Set the **call type** to what you want it to be.  
For example. Conference call = Group call, Unit Call = Private call
11. Enter the **Site IP address** of the NXR-1000.

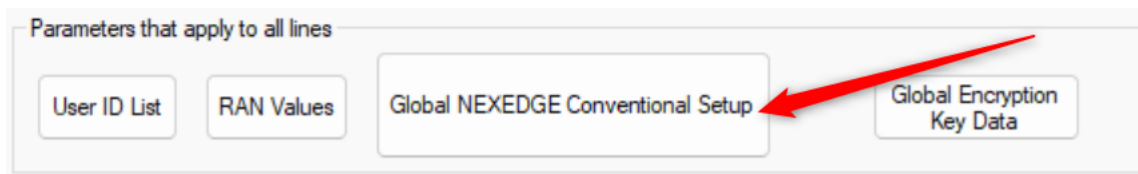


1. If your design includes a Group PTT Call button (Conference Call) or a PTT-Private Call button (Unit Call), an additional button appears to the left of the Global NEXEDGE Conventional Setup based on the line you are working on. The User ID List button is used to configure the User ID List, and the Group ID List button is used to configure the Group ID List.
  - To configure the User ID List, see *User ID List*, page 17.
  - To configure the Group ID List, see *Group ID List*, page 17.
  - To Run RAN, see *Run RAN Values*, page 18.

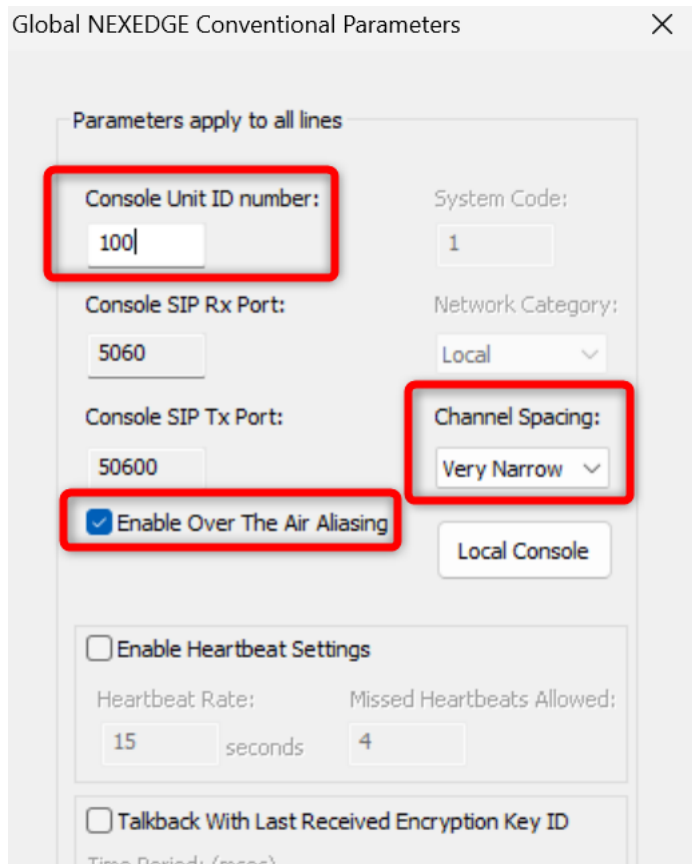


**Notice!**

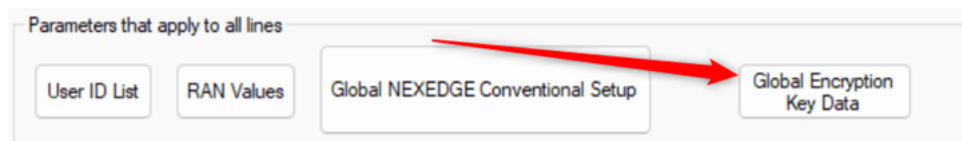
It does not matter whether you programmed your design with the PTT Group Call or PTT Private Call buttons, or left them off so the two buttons remain on the left. You can now click the Global NEXEDGE Conventional Setup button. Because this button is global, it changes the information on all lines.



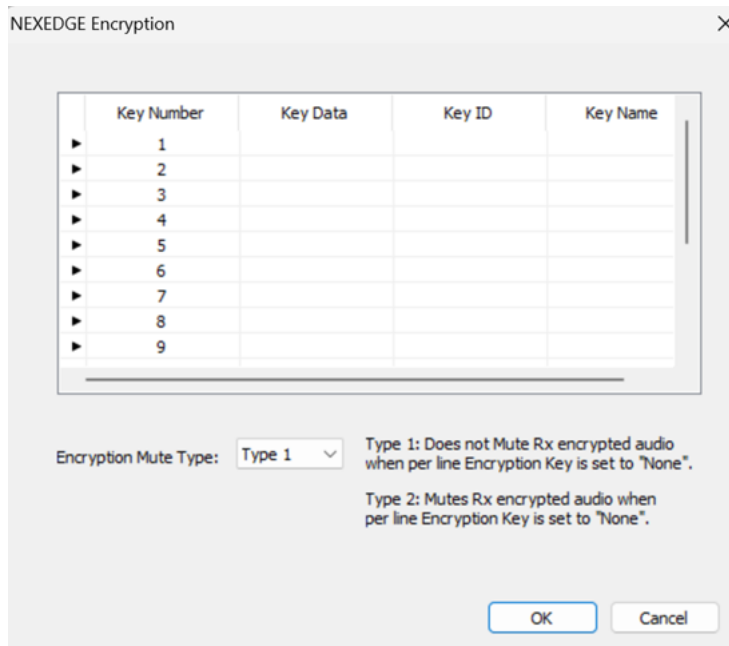
2. Click **Global NEXEDGE Conventional Setup**.  
The Global NEXEDGE Conventional Parameters dialog opens.



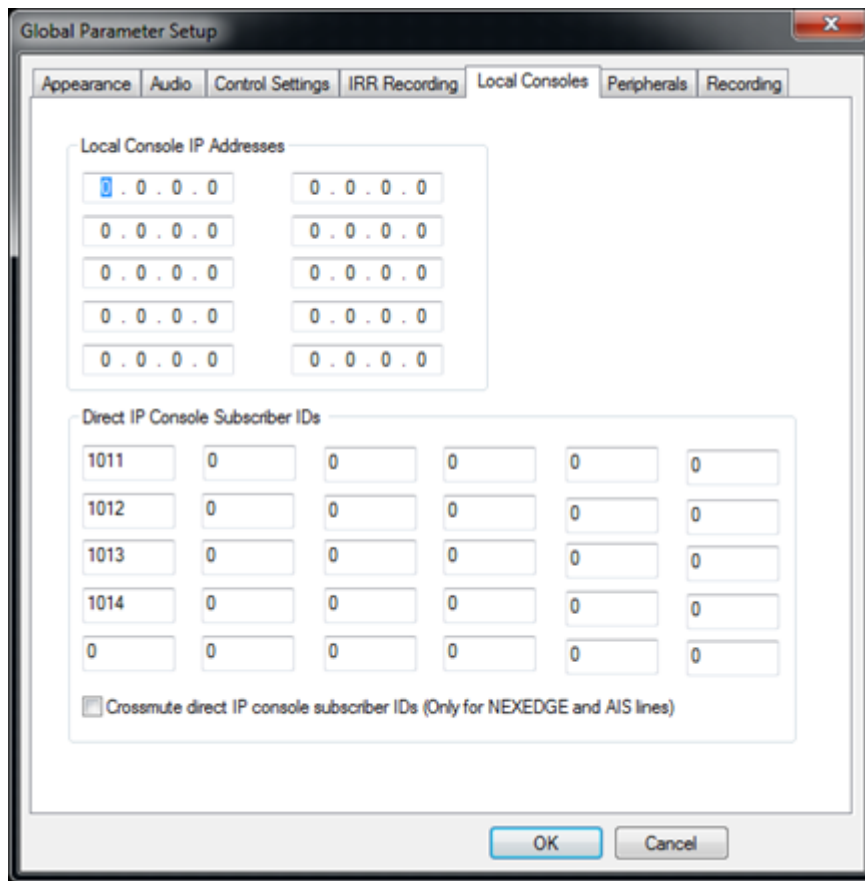
3. Edit the following fields.
  - **Console Unit ID number:** This Console ID must match one of the IDs programmed in Step 5 of the Kenwood NXR-1000 Node Setup section. Each console must have a unique ID.
  - **Console SIP RX Port:** This port is used to connect to the Nexedge repeater. This field is read only and can be changed by editing the “Use Non-Standard Port” field in the Global SIP Configuration window (Edit-> Setup SIP Phone -> SIP Network). Default value is 5060. Recommendation: Don’t change it.
  - **Channel Spacing:** This needs to match what the repeater is programmed for. In our case it is set up as Very Narrow.
  - **OTA Aliasing:** If you have Alias’ programmed in your field units, then enable the Over the Air Aliasing.
  - **Heartbeat Field:** This field specifies the length of time a console can be registered to the server without re-registering. This field can be used to monitor the network connection between C-Soft and the node.
4. Click **OK** to save the changes and close this window.



5. Click the **Global Encryption Key Data** button.  
The NEXEDGE Encryption dialog opens.



6. Enter your encryption keys for the NXDN system.
7. Click **OK** to save and close the window.
8. Navigate to **Global Parameters Setup - Local Consoles** (Edit | Setup Global Parameters | Local Consoles).

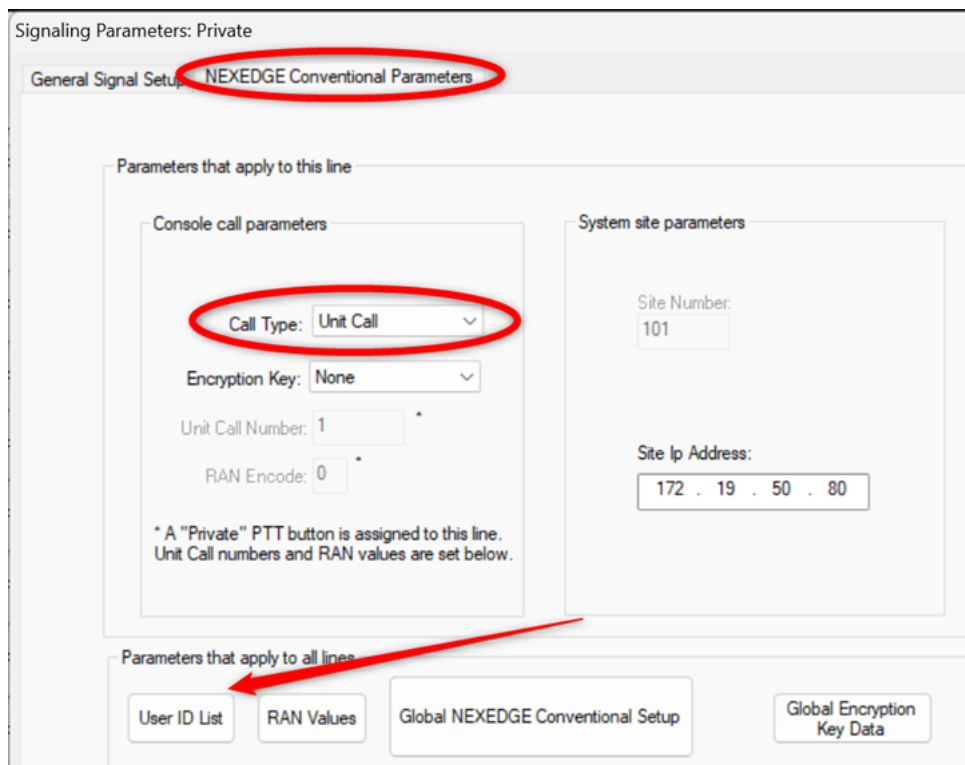


- Under Direct IP Console Subscriber IDs, enter the **Console subscriber IDs** of the parallel consoles.  
These IDs should match the Console IDs that were programmed in the NXR-1000 (See Create Console IDs at the beginning of this chapter)
- Check the **Crossmute direct IP console subscriber IDs checkbox** if the console should not play transmit audio from any parallel consoles.
- Click **OK** to close the Global Parameter Setup window

### 4.2.1 User ID List

#### Configure the User ID List

- Click on the User ID List button.



- After you have clicked on the “User ID List” button, another window will appear where you can edit the users. When creating the users, make sure that you make the type “NEXEDGE-Conv”

	Name: <input type="text" value="Sort By Name"/>	User ID: <input type="text" value="Sort By ID"/>	Type:	TX Inhi
1	Barnie	12	NEXEDGE-CONV	<input type="checkbox"/>
2	Betty	32	NEXEDGE-CONV	<input type="checkbox"/>
3	Fred	2	NEXEDGE-CONV	<input type="checkbox"/>
4	Wilma	22	NEXEDGE-CONV	<input type="checkbox"/>
5				

### 4.2.2 Group ID List

- Click the **Group ID List** button.

Parameters that apply to this line

Console call parameters

Call Type: Conference Call

Encryption Key: None

Talk Group Number: 1

RAN Encode: 0

\* A "Group PTT" button is assigned to this line. Talk Group numbers and RAN values are set below.

System site parameters

Site Number: 101

Site Ip Address: 172 . 19 . 1 . 20

Parameters that apply to all lines

Group ID List RAN Values Global NEXEDGE Conventional Setup Global Encryption Key Data

2. Create the **Group IDs**.  
Verify the type is NEXEDGE-Conv.

Group ID List

	Group: Sort By Name	Group ID: Sort By ID	Type:	TX Inhibi
1	Group 100	100	NEXEDGE-CONV	<input type="checkbox"/>
2	Group 101	101	NEXEDGE-CONV	<input type="checkbox"/>
3	Group 102	102	NEXEDGE-CONV	<input type="checkbox"/>
4			Generic	<input type="checkbox"/>

### 4.2.3

#### Run RAN Values

1. Once all the Group IDs and the User IDs, you can now add all the RAN values by pressing the RAN button.

Parameters that apply to all lines

Group ID List RAN Values Global NEXEDGE Conventional Setup



#### Notice!

It does not matter which RAN button you click, you can edit both the Group ID RANs and the User ID RANs in the same window by changing the type at the bottom left of the window.

NEXEDGE Conventional RANs

#	Unit Name	Unit ID	RAN Value (Encode only)
1	Betty	32	0
2	Wilma	22	0
3	Fred	2	0
4	Barnie	12	0
5			
6			
7			
8			
9			
10			
11			
12			

Type: Units  Encode and Decode.  Encode and Decode.

## 5 Known Issues

The C-Soft Kenwood NXR-1000-NXDN interface currently does not support the following features:

- Intercom operation on NXDN lines
- Changing Wide Area Groups from the console

## 6 Compatibility

- Compatible with Kenwood NXR-1000 Controller Node version 2.30.00 for Kenwood NXR-1000 Conventional systems.
- Compatible with ADHB-4 Gen 1 Version 3.600 and HWV2 1.200
- Compatible with ADHB-4 Gen 2
- Compatible with Telex Activation License Tool Version 1.800
- Compatible with C-Soft 8.500 and Higher

## 7 Installation

### Install C-Soft on Windows 11:

- Double click the C-Soft\_Setup\_v8500.exe setup executable.
- Follow the steps provided on the screen to install C-Soft.
- During the C-Soft installation, the user is prompted to install updated drivers for the ADHB-4. Follow the instructions on the screen to complete ADHB-4 Driver Installation. If up-to-date ADHB-4 Drivers have already been installed, this step can be skipped.
- During the C-Soft installation, the user will be prompted to install Telex License Server, which is required for obtaining and maintaining licenses for C-Soft.
- The Telex License Server Installer may also install the prerequisite Microsoft Visual C++ 2012 Redistributable package if necessary. If Microsoft Visual C++ 2012 Redistributable is already present, this step can be skipped.



### Notice!

Contact Telex Technical Support to acquire license Entitlement Certificates. Consult the C-Soft manual's appendix titled Telex License Activation Tool for more information on licensing requirements, activation processes, and architecture.

### Upgrade C-Soft:

- ▶ Locate the appropriate version of C-Soft 8.500 or higher installation package to install C-Soft.

## 8 Revision History

Revision	Date	Author	Description
01	01/12/2026	Technical support	NXR-1000 NXDN Setup for C-Soft

The logo for TELEX, featuring the word "TELEX" in a bold, white, sans-serif font with horizontal lines above and below the letters, set against a blue background.

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