CTI Products

RadioPro[™] IP Gateway Installation Guide for Kenwood NEXEDGE Radios NX-57xx/58xx



For Version 9 Software

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Fonts used in this document: *Technical terms Cross-references within this document* <u>Hyperlinks to other documents or web pages</u> Warnings Software menus, menu options, folders, pages, and parameters

Software parameter values

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1 OVERVIEW

This Manual will focus on configuring Kenwood NEXEDGE NX-57xx/58xx Radios with the RadioPro System.

Please Refer to the <u>RadioPro IP Gateway Installation Guide</u> for general installation information relevant for all radio system types.

1.1 System Planner Template

Use the System Planner Template on page 25 of this document in the planning phase of a project to record IP addresses, usernames, passwords, serial numbers, and device names.

1.2 Required Items

1.2.1 Radio Interface Cable

A radio interface cable must be ordered for each IP Gateway from the following table:

Control Station Radio	Cable Part #
Kenwood NEXEDGE NX-700/800/5700/5800	S2-61769
Kenwood NEXEDGE NX-720/820	S2-61890

Other cables are available to connect a dedicated data revert cable. Contact CTI for more information.

1.2.2 Control Station Radio

Each Control Station radio used for voice requires one IP Gateway. The control station radio connected to the IP Gateway **must at least have the minimum firmware version listed below**. Kenwood's FPU (Field Programming Unit) software will be needed to configure the control station radio.

Control Station Radio	Minimum Version	Programming Software
Kenwood NEXEDGE NX-5700/5800 (Preferred Radio)	2.31.00	KPG-D1N
Kenwood NEXEDGE NX-700/800 or NX-720/820	3.21.00	KPG-111DN

1.2.3 Radio Programming Cable

A radio programming cable is required to configure the Control Station radio.

Note: A programming cable connected to the front microphone connector on the Control Station radio may prevent communications to a RadioPro IP Gateway from the Rear Accessory Connector. **Therefore, when a cable is connected to the Rear Accessory Connector to connect a RadioPro IP Gateway or a PC (during programming), ensure that the programming cable has been disconnected from the front microphone connector.**

2. FEATURE AVAILABILITY

Kenwood NEXEDGE Systems

Depending on NEXEDGE System Type, some features may not be available. Use the following table to determine if a feature discussed in this document is available.

System Type	Analog	Analog w/	Digital	Digital NXDN	NXDN & LTR	NXDN Trupking
Feature	Analog	FleetSync	NXDN	w/ call ack.	Trunking	Trunking (MsgTrnkd)
Voice Dispatch	~	\checkmark	✓	~	✓	✓
Text Messaging	-	\checkmark	~	~	\checkmark	\checkmark
GPS Mapping	-	\checkmark	~	~	~	\checkmark
Status Updates	-	~	~	~	~	✓
Selective Calling	-	~	~	Not Currently Supported	~	Not Currently Supported
Remote Monitor	-	\checkmark	✓	~	✓	✓
Remote Enable/Disable	-	~	\checkmark	\checkmark	~	\checkmark

3. CONFIGURATION AND INSTALLATION

Use the steps in the following table to install a RadioPro System. Each step is discussed in detail starting on Page 6. Following installation of the IP Gateway in Step 5, at least one Client must be installed from Step 6.

Step #	Description	Kenwood NEXEDGE NX-57xx/58xx
3.1.1	Configure Control Station Radio(s) for Voice	page 6
3.1.2	Configure Control Station Radio(s) for Data	page 14
3.1.3	Configure Subscriber Radios for ARS, GPS, and TMS	page 15
3.2	Connect RadioPro IP Gateway to Control Station Radio	page 21
3.3	Configure RadioPro IP Gateway(s) using ICU.exe	page 22

Please Refer to the <u>RadioPro IP Gateway Installation Guide</u> for additional installation steps relevant for all radio system types.

3.1 Program the Control Station Radio

3.1.1 Configure the Voice Radio



(For NX-700, NX-800 NX-720, NX-820, NX-3720, NX-3820 radios see <u>RadioPro IP Gateway Installation Guide for</u> <u>Kenwood NEXEDGE NX-7xx-8xx 37xx-38xx</u>.)

Radio models NX-5700/5800 can be used as a control station radio.

Use the KPG-D1N **FPU** (Kenwood's NEXEDGE 'Field Programming Utility' configuration software for NX-5700/NX-5800 radios) to configure NEXEDGE radio parameters using the following steps.

- 1. Connect and read the control station as any other radio
 - a. Using a Kenwood programming cable, connect the NX-5700/5800 Control Station radio to a PC or Notebook that has the correct Kenwood FPU version (KPG-D1N in this case).
 - b. Open the **KPG-D1N** FPU.
 - c. Ensure that the correct COM port is selected.
 - d. From the **Model** tab, choose the **Product Information** page, and then click the **Read Configuration** button as shown below.

Model Product Tools	Setup View					
File Name kpgd1n.dat NX-5800 [Mobile]: K/F UHF : 450-520 MHz	Optional Features	Product Information				
Transceiver Settings		Model Name	NX-5800 [Mobile]: K/F	~ P2	5 On	¥
P25 Network		Frequency 4	50-520 MHz	~ NXDI	N On	v
NXDN Network		Zone-channel Format	Channel Table	~ DM	R Off	÷
Image: Source (Channel) Image: Source (Channel)		Feature Selection (KWD-5000CH) Front Panel Programming (KWD-5001FP) microSD (KWD-5003ET) Buetooth Serial Port Profile (KWD-5003ET) Secure Cryptographic Module (KWD-5003EE) DES 4 Keys (KWD-5003EE) Multi RF Deck (KWD-5004R) Remote Control (KWD-5004R) Enhanced Encryption (KWD-5005EE)	P25 Phase 1 Trunking (K) P25 Phase 2 Trunking (K) P25 Packet Data (K) P25 OTAR (K) P25 Voting Scan (K)	WD-5101TR) NX WD-5102TR) NX WD-5106DT) DMR	DN Conventional	I (KWD-5200C ing (KWD-5201T (KWD-5204A (KWD-5300C
 I I I I I I I I I I I I I I I I I I I		Control Head Configuration Control Head 1 KCH-19 (Ba Control Head 2 None Read Configuration	usic Panel) v		Cance	- Help

e. Enable **Feature Selections** that this radio is licensed for with a check mark in the appropriate boxes, and then click the **OK** button.

- 2. Configure NXDN and FleetSync System
 - a. Expand the **Personal** folder, expand the **System 1** folder under that, and then select **System Information**.
 - b. In the System Information window, for System Type select NXDN Conventional, and for Signaling Type select FleetSync.
 - c. In the ID (FleetSync) box, enter a value for Fleet (Own) and ID (Own).
 (Note: These parameters do not have to be used elsewhere, but they must have an assigned value even if the radio is being used in analog mode without FleetSync, or in digital mode with NXDN. Not entering an ID will prevent RadioPro from functioning properly.)

🐼 🗅 🗁 💾 💻 💼 KPG-D1N	System Information	
Model Program Tools Setup	View Operation	
Add Copy Delete		
File Name kpgd1n.dat		
NX-5800 [Mobile]: K/F UHF : 450-520 MHz	System Information	
Transceiver Settings	System Number 1 🔹 System Name System 1	
P25 Network	System Type NXDN Conventional V	
▶ NXDN Network	Signaling Type FleetSync	
Personal	ID (FleetSync)	
 1: System 1 System Information 	Fleet (Own)	
Personal Features	Ciobal ID	
Zone/Channel	Unit ID (Own)	
Optional Features	Unit ID + +	
🔯 Key Assignment	✓ Global ID	
▷ 🔯 Scan	Over-the-Air Alias	
D LTR	Unit ID Name (Own)	
🔯 DTMF	✓ Global ID Name	
Þ 🔯 2-tone		

d. In the **Unit ID** box, enter a value for **Unit ID**.

(Note: This parameter does not have to be used elsewhere, but it must have an assigned value even if the radio is being used in analog mode without FleetSync. Not entering an ID will prevent RadioPro from functioning properly.)

- 3. Configure the Data Port
 - a. Expand the **Option Features** folder, and then select **Optional Features 1**.
 - b. In the **Optional Features 1** window, expand **Serial Interface**, and then under the **Function** column for **COM port 1**, select **Data + GPS Data Output**.
 - c. For **COM Port Priority**, select **Serial Data**.
 - d. For PC Interface Protocol, select Version 2.
 - e. Enable all options for Serial Output and Serial Input with a check mark in the appropriate boxes.

🙋 🗅 🗁 💾 🚾 👳 KPG-D1N	Optional Features
Model Program Tools Setup	View Operation
Data Data Voice and Display Language	
File Name kpgd1n.dat	
NX-5800 [Mobile]: K/F	Optional Features 1
UHF : 450-520 MHz	[+] [-] Display Sound Voice Announcement Power-on Battery Microphone-hook Horn Alert Ignition Function Password Stack Mode Serial Interface Expansion Switch Others
Transceiver Settings	⊙ Display
P25 Network	Sound
NXDN Network	⊙ Voice Announcement
4 Personal	
4 🚞 1 : System 1	Sattery
System Information	⊙ Microphone-haok
Personal Features	⊙ Horn Alert
Zone/Channel	⊙ Ignition Function
4 🔯 Optional Features	⊙ Password
Optional Features 1	⊙ Stack
Contional Features	⊙ Mode
🔯 Key Assignment	Serial Interface
⊳ 🔯 Scan	COM port No. Function Polarity Stop Bit Baud Rate Flow Control
🔯 LTR	COLLeuro Normal 2 9600 None
DTMF	COM port 1 Data + GPS Data Output Dormal 2 9600 None
▷ 100 2-tone	COM porce Normal 2 9600 None
 Ø 2-tone MDC-1200 	COM port Bluetooth None None
	COM Port Priority Serial Data
FleetSync	PC Interface Protocol Version 2
▶ @ P25	Serial Output
NXDN	☑ J Command Serial Output
DMR	- Serial Input
Direction Encryption	☑ Data Override
KMF Profile	

4. Configure GPS Settings

So that RadioPro can process GPS information from subscriber radios, the control station radio must know what data to send to the IP Gateway. Configure this as follows:

- a. Expand the **Optional Features** folder, then select **Optional Features 2**.
- b. In the **Base Station Settings** section of the **GPS** page, enable **\$PKLDS/\$PKNDS (KW)** with a check in the box.

🐼 🗅 🗁 💾 💻 🛒 (KPG-D1N	
Model Program Tools Setur	o View
Product Information	
File Name kpgd1n.dat	
NX-5800 [Mobile]: K/F	Optional Features 2
UHF : 450-520 MHz	[+] [-] Conventional OST microSD/Memory GPS/Bluetooth Scrambler
Transceiver Settings P P25 Network P Resonal Personal Personal System Information Personal Features Poptional Features Optional Features 1 Optional Features 2 Key Assignment Scan LTR	GPS GPS Position Display Latitude and Longitude Latitude and Longitude Format ddd mm.mmm v Altitude Altitude Unit Meter v Base Station Settings SGPGGA (NMEA) SGPGLL (NMEA) SGPRMC (NMEA) SPKLDS/\$PKNDS (KW) SPKLDS/\$PKNDS (KW) SPKLSH/\$PKNSH (KW)

- 5. Configure FleetSync Settings
 - a. Expand the **FleetSync** folder, then select **FleetSync Information**.
 - b. Enable all options in the **Serial Output** section, except for **Transparent Header**.
 - c. Enable all options in the **Stack** section.

👩 🗅 🗁 🕮 👼 📻 KPG-D1N	
Model Program Tools Setup	View
Product Information	
File Name kpgd1n.dat	
NX-5800 [Mobile]: K/F	FleetSync Information
UHF : 450-520 MHz	[+] [-] <u>General Status</u>
Transceiver Settings	Serial Output
Zone/Channel	✓ Unit ID Serial Output
D Optional Features	Transparent Header
🔯 Key Assignment	✓ Status Message Serial Output
▷ 🔯 Scan	✓ Short Message Serial Output
D LTR	Status Hold Selected V
🔯 DTMF	Stack
▷ 🔯 2-tone	✓ Status Message Stack
▷ 🔯 MDC-1200	☑ Short Message Stack
S FleetSync	Caller ID Stack None ~
FleetSync Information	

6. Configure NXDN Settings

- a. Expand the **NXDN** folder, then select **NXDN Information**.
- b. Enable all options in the **Serial Output** section, except for **Transparent Header**.
- c. Enable all options in the **Stack** section.

💿 🗋 🗁 💾 🚬 🔜 KPG-D1N	
Model Program Tools	Setup View
Product Information	
File Name kpgd1n.dat	
NX-5800 [Mobile]: K/F	NXDN Information
UHF : 450-520 MHz	[+] [-] General Conventional Trunking Status CW ID
Transceiver Settings Image: Scan Image: Scan	Serial Output Unit ID Serial Output Transparent Header Status Message Serial Output Status Hold Selected Stack Status Message Stack Short Message Stack Caller ID Stack None

Installation and Configuration Guide NEXEDGE NX-57xx/58xx

7. Configure Sound Options

The steps in this section may be skipped if this radio is to be used for GPS only; ie, not used for voice communications.

- a. Select the Audio Profile folder.
- b. In the General section of the Audio Profile page, change Microphone Sense to +4 dB (High).

🙋 🕒 🗁 💾 🛲 🗾 (KPG-D1N		Audio Profile
Model Program Tools Setup	View	Operation
(F)		
Open		
File Name kpgd1n.dat		
NX-5800 [Mobile]: K/F		o Profile
UHF : 450-520 MHz	[+]	[-] General Advanced Settings Active Noise Reduction (ANR)
Transceiver Settings	Profile	e Number 1 Profile Name Profile 1
Personal		Preset Standard Y Default
Zone/Channel	🔥 Gen	reral
Optional Features		Speaker Type Internal Y
🔯 Key Assignment		Microphone Type Microphone 1 Y
▷ 🔯 Scan	Mici	crophone Sense
to LTR		Microphone Sense [dB] +4 V
DTMF		External Wickophone Sense [J8] 0 V
▷ 🔯 2-tone		Digital Audio Offset [dB] 0
▶ @ MDC-1200		
▷ 🔯 FleetSync	🔿 Advi	vanced Settings
▶ @ P25	RXA	Audio Response (Digital)
▷ 🔯 NXDN		
DMR		Audio Equalizer Preset Flat
Diricity Encryption		10
KMF Profile		8
		4 · · · · · · · · · · · · · · · · · · ·
Audio Profile		-2 -4
Emergency		-8 · · · · · · · · ·
Extended Function		[dB] -10 - ^U ^U ^U ^U ^U - Low Low Midrange Midrange High
Display Customization		

8. Configure Audio Routing Options

The steps in this section may be skipped if this radio is to be used for GPS only; ie, not used for voice communications.

- a. Select the Extended Function folder.
- b. Expand the **Modulation Line** tab.
- c. For Mic PTT, select Connect for both Mic Line and MI2 Line.

👩 🗅 🏳 💾 🗷 🛒 KPG-D1N								
	/iew							
Product								
File Name kpgd1n.dat								
NX-5800 [Mobile]: K/F	Extended Function							
UHF : 450-520 MHz	[+] [-] AUX Rer	note Zone-Ch	annel <u>Modulat</u>	tion Line Mob	ile Function			
Transceiver Settings) AUX							
) Remote Zone-Chanr	nel						
) Modulation Line	>						
Optional Features	PTT	Mieline	MI2 Line	DI Line	with QT/DQT	with STE		
	Mic PTT	Connect	Connect	Discon ect	✓	✓		
🔯 Key Assignment	External PTT (voice)	Disconnect	Connect	Disconnect	\checkmark	\checkmark		
▷ 🔯 Scan	External PTT (Data)	Disconnect	Disconnect	Connect	~	\checkmark		
🔯 LTR	Data PTT	Disconnect	Disconnect	Connect	~	\checkmark		
DTMF	Modulation Line by I	Mic PTT						ANT
▷ 🔯 2-tone		Connect						∇
▷ 🔯 MDC-1200	Mic		>	Audio Proce	ssor		Modulation Circuit	
FleetSync	MI2	Connect				↑ L		
Þ 🔘 P25		Disconnect						
NXDN	DI							
▷ Ô DMR								
Encryption	Control Head Mic Inp	out (Control H	ead 1) Modul	lar Jack 🗡				
KMF Profile) Mobile Function							
Special Tone								
🔅 Audio Profile								
D Chergeney								
Extended Function								

- 9. Write New Configuration to Radio
 - a. Click the \blacksquare icon found in the main toolbar.

Ø 🗅 (KPG-D	01N		
■▼	Model	Program	Tools	Setup	View
Produc					

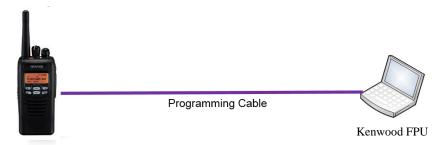
3.1.2 Configure the Data Revert Radio



If you are using a Data Revert radio, follow the same steps for configuring the radio as you would for the Voice Radio with the following exceptions:

- Because the Data Revert Radio does not deal with audio, you may skip the steps for *Configure Sound Options* on page 12, as well as steps for *Configure Audio Routing Options* on page 13.
- **Be certain to follow steps described on page** *10, Configure GPS Settings.*
- Because *Channel Steering* only affects the Voice Radio, program only the data channel into the radio.

3.1.3 Configure Subscriber Radios



Use the **FPU**, (Kenwood's NEXEDGE 'Field Programming Utility' configuration software) to configure NEXEDGE radio parameters using the following steps.

1. Configure the subscriber radio as any other radio.

- a. Using a Kenwood programming cable, connect the NX-5200/5300 Control Station radio to a PC or Notebook that has the correct Kenwood FPU version (KPG-D1N in this case).
- b. Open the **KPG-D1N** FPU.
- c. Ensure that the correct COM port is selected.
- d. From the **Model** tab, choose the **Product Information** page, and then click the **Read Configuration** button as shown below.
- e. Enable **Feature Selections** that this radio is licensed for with a check mark in the appropriate boxes, and then click the **OK** button.

0 E		Model Program Tools	Setup	View								
Pn	oduc	t										
File 1	Name	kpgd1n.dat										
N	<-530	00 [Portable]: K/F		NXDN Network								
UH	HF : 4	50-520 MHz										
Tran	sceiv	er Settings		Product Information	>							×
Þ.,	Æ.	P25 Network	^			Model Name	NX-5300 [Portable]: K/F	~	P25	On	~	
Þ.,	æ.	NXDN Network										
Þ	i .	Personal				Frequency	450-520 MHz	~	NXDN	On	~	
Þ	6	Zone/Channel			Zone-ch	annel Format	Channel Table	~	DMR	Off	~	
Þ	Ø	Optional Features		Feature Selection								
	ţ.	Key Assignment		4000 Channel		(KWD-5000CH	P25	(KWD-5100CV)	NXDN	Conventiona		WD-5200CV)
Þ	ţΩ.	Scan		Front Panel Program	nmina	(KWD-5000CH)				I Type-C Trunk		
	ġ.	LTR		microSD	-	(KWD-5002SD)						(WD-5204AP)
	ġ	DTMF		Bluetooth Serial Por	t Profile	(KWD-5003BT)	P25 Packet Data	(KWD-5106DT)	DMR			
D.	- C)-	2-tone		Secure Cryptograph	ic Module	(KWD-5005AE)	P25 OTAR	(KWD-5103RK)	DMR	Conventional	(K	(WD-5300CV)
Þ	io -	MDC-1200		DES 4 Keys		(KWD-5006DE)	-	(KWD-5105VT)				
Þ	ġ.	FleetSync		Multi RF Deck		(KWD-5004MR (KWD-5007RC)		(KWD-5104AP)				
Þ	÷۵	P25		Enhanced Encryptio	n	(KWD-5500FE)						
p.	io.	NXDN		Control Head Configure								
p .	-ioj-	DMR			ation ontrol Hea	id 1 KCH-19 (Basic Panel)					
	ð	Encryption		C	ontrol Hea	d 2 None						
	105	KMF Profile										
		Special Tone		Read Configuration	>				ОК	Cance	el 👘	Help
1.1	ngr	special lone									_	

- 2. Configure ID settings for FleetSync.
 - a. If using FleetSync, expand the **Personal** folder, expand the **System 1** folder under that, and then select **System Information**.
 - b. In the System Information window, for **System Type** select Analog Conventional and for **Signaling Type** select FleetSync.
 - c. Enter a value for Fleet (Own) and ID (Own).

🧭 🛅 🗁 📇 💻 🖌 KPG-D1N	System Information
Model Program Tools Setup	View Operation
Add Copy Delete	
File Name kpgd1n.dat	
NX-5300 [Portable]: K/F	System Information
UHF : 450-520 MHz	Тор
Transceiver Settings	System Number 1 System Name System 1
P P25 Network	System Type Analog Conventional Y
NXDN Network	Signaling Type FleetSync V
Personal	ID (FleetSync)
4 📒 1 : System 1	Fleet (Own) 100
System Information	ID (Own) 1000
Personal Features	☑ Global ID
Zone/Channel	
Optional Features	
🔯 Key Assignment	

- 3. Or, Configure ID settings for NXDN.
 - a. If using NXDN, expand the **Personal** folder, expand the **System 1** folder under that, and then select **System Information**.
 - b. In the System Information window, for **System Type** select **NXDN** Conventional and for **Signaling Type** select **FleetSync**.
 - c. Enter a value for Fleet (Own), ID (Own), Unit ID and Unit ID Name (Own).

\delta 🗅 🗁 💾 ፷ 👳 KPG-D1N	System Information
Model Program Tools Setup	View Operation
Add Copy Delete	
File Name kpgd1n.dat	
NX-5300 [Portable]: K/F	System Information
UHF : 450-520 MHz	Тор
Transceiver Settings	System Numb
P P25 Network	System Type NXDN Conventional Y
D 📇 NXDN Network	Signaling Type FleetSync Y
Personal	ID (Fleetsync)
4 := 1 : System 1	rieet (Own) 100
System Information	ID (Own) 1000 🔹 🔹
Personal Features	Global ID
4 🧒 Zone/Channel	Unit ID (Own) -
4 🐼 1:Zone 1	Unit ID 6000
Zone/Channel Information	Global ID
🧒 Zone Edit	Over-the-Air Allos
Channel Edit	Unit ID Name (Own) Oliver
Optional Features	Slobal ID Name
🔅 Key Assignment	C Global D Name
D Kosan	

- 4. Configure Data settings & Target/Base ID settings.
 - a. Expand the **Personal** folder, expand the **System 1** folder under that, and then select **Personal Features**.
 - b. If using *FleetSync* on a conventional (non-trunked) system, use the **Analog** section to ensure that the correct data will be sent to the Data Channel:
 - i. Specify the channel to use for data by assigning the Data Zone-Channel (Analog) field as required for your system.
 - ii. Enable the desired messages to send across the Data Zone-Channel with a Check.
 - iii. Enter a value For Target Fleet and Target ID.Note: If the target does not include the Control Station(s), data will not appear in RadioPro.

File Name kpgd1n.dat NX-5300 (Portable): K/F UHF: 450-520 MHz Transceiver Settings System Number 1 * Parameters System Number of Retries * <t< th=""><th>💇 🕒 🗁 🛅 🛲 🗮 KPG-D1N</th><th></th></t<>	💇 🕒 🗁 🛅 🛲 🗮 KPG-D1N	
		View
The function of the second sec		
Not-300 Not-100		
Unit - 40-200 Mtt Functional database ************************************		Personal Features
Note in the intervent in the intervent in		[+] [-] General Analog NXDN List GPS Emergency
<pre></pre>		
Present P		
1 Spann 1 Control Control Marking 1 1 Spann 1 Audo Control Control Marking 1 2 Spann 1 Control Marking 1 3 Spann 1 Control Marking 1 4 Spann 1 Control Marking 1 5 Spann 1 Control Marking 1 6 Spann 1 Control Marking 1 7 Spann 1 Control Marking 1 8 Spann 1 Control Marking 1 9 Spann 1 Spann 1 9 Spa		
Aure		
Proceed features ************************************	System Information	
How Transmit Burgers of Faxement Source Channel Information Concord Features	Personal Features	
	4 Chunnel	
Constant Edit Constan		
Control Fatures 1 Control Fatures 2		
Optional Fastures Optional Fast	Channel Edit	
Personal Personal Personal Parameters		
Unit D Encode Block Unit D		FleetSync II
Prove the starts 80-99 (Special) PTT D Status 80-99 (DIR LTR	✓ Manual Dialing
MDC-1200 PTID Stature PTID		Unit ID Encode Block
 FreetSync Sun/KII Status Validation Prestync Burnt Noise Reduction Group ID Model Program Tools Setup View Model Program Tools Setup View Model Porgram Tools Setup View Model Porgram Tools Setup View Personal Features System None System Nume System Nume System 1 System Information Personal Features System Information System Information System Information Concept I 1: Sone 1 Concept I 1: System Information System Information Solution Features 1 Solution Information <l< td=""><th></th><td></td></l<>		
 P23 P23 P23 P23 P23 P23 P23 P25 P25		
NUDN Original NUDN Original NUDN Original NUDN Original NUDN		
Image: Nodel Program Tools Setup View Product Program Tools Setup View Product Proconal Features Image: NCPA List CFS Emergination Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List CFS Image: NCPA List		
NXF.3300 [Portable]: K/F UHF: 450-520 MHz Transceiver Settings P	Product	
NXF.3300 [Portable]: K/F UHF: 450-520 MHz Transceiver Settings P	File Name kpgd1n.dat	
System Number 1 * System Name FURTURE Parameters System Name System Name System 1 System 1: System 1 System Name System Name System 1 System 1: System 1 System Name System Name System 1 System 1: System 1 System Name System Name System Name System 1: System 1 System Name System Name System Name System Name System Name System Name System Name System Name System Name System Name System Name System Name System Name System Name System Name System Name System Name System Name Syst	NX-5300 [Portable]: K/F	
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	 MDC-1200 FleetSync 	Transparent on Data Zone-Changel
Target ID ALL	 MDC-1200 FleetSync 	Transparent on Data Zone-Changel

- c. If using NXDN on a conventional system, use the NXDN section to ensure that the correct data will be sent to the Data Channel:
 - i. Specify the channel to use for data by assigning the **Data Zone-Channel (NXDN)** field as required for your system.
 - ii. Enter a value for **Base ID Type** and **Base ID**.
 - Enable the desired messages to send across the Data Zone-Channel with a Check. Note: If the Base ID does not include the Control Station(s), data will not be sent to RadioPro clients.

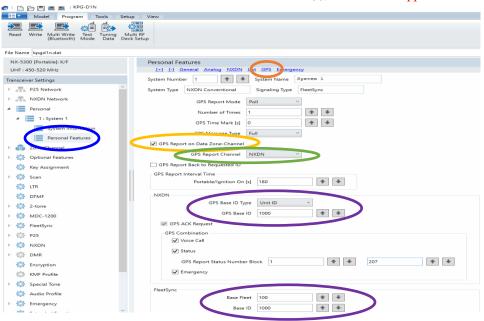
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- 5. Configure Text Message Settings.
 - a. Select the **Key Assignment** folder, in the **Menu** section choose **Call** in the **Category List**, select **Short Message** from the **Available Function List**, and then click the **Add** button.

👩 🗅 🗁 💾 壅 🛒 KPG-D1N	
Hodel Program Tools Setur	o View
Product Information	
File Name kpgd1n.dat	
NX-5300 [Portable]: K/F UHF : 450-520 MHz Transceiver Settings	Key Assignment [+] <u>I-</u>] General Top/Side Front Mic Key Call Direct Channel Menu Character Entry (•) Menu Menu
P I P25 Network P I P25 Network P I NXDN Network P I Personal P I Ontional Features Key Assignment P I Star	Menu Icon Size Large Category List Category List Create Category List Create Rename Dutility Delete Menu Icon Color 1 ~
Image: Constraint of the second sec	Function List Available Trunction List Individual RX Audio Equalizer (Midrange) Group RX Audio Gain Control Status Scan Normal Stack Scan Program Scrambler/Encryption Scrambler/Encryption Code Speaker Type Surveillance Talk Around V

- 6. Configure the GPS settings.
 - a. If using GPS, configure the desired behavior for the radio by expanding the **Personal** folder, expand the **System 1** folder under that, and then select **Personal Features**.
 - b. In the GPS section enable GPS Report on Data Zone-Channel with a check mark, and then select the correct channel to use in the GPS Report Channel box.
 - c. Ensure the GPS Base ID Type includes the Control Station radio.
 - i. If using GPS with NXDN, in the **NXDN** section, enter a value for **GPS Base ID Type** and **GPS Base ID**.
 - ii. If using GPS with FleetSync, in the **FleetSync** section, enter a value for **Base Fleet** and **Base** ID.

Note: This is the ID the subscriber will respond to, which will be the ID of the data revert control station radio. If the Base ID does not include the Control Station(s), data will not appear in RadioPro.



3.2 Connect the Gateway to the Radio

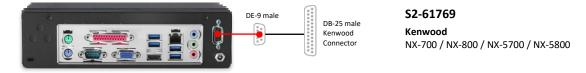


Note: Before continuing, ensure that the programming cable has been disconnected from the front mic connector.

See Section 4.1 Appendix - Radio Interface Cables on Page 23 for interface cable details.

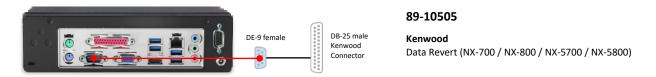
Connect the IP Gateway to the Control Station voice radio using the following steps:

- 1. Connect the DB-25 side of cable S2-617691 to the DB-25 connector on the rear of the NEXEDGE NX-5700/5800 radio.
- 2. Connect the DE-9 male side of the cable to the DE-9 female connector on the rear of the IP Gateway.
- 3. Ensure that jack screws on both connectors are tightened to hold connectors in place.



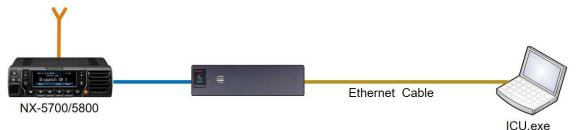
Connect the IP Gateway to the Data Revert Control Station radio using the following steps:

- 1. Connect the DB-25 side of cable 89-10505 (DB25 Male to DE9 Female) to the DB-25 connector on the rear of the NEXEDGE NX-5700/5800 radio.
- 2. Connect the DE-9 female side of the cable to the DE-9 male connector on the rear of the IP Gateway.
- 3. Ensure that jack screws on both connectors are tightened to hold connectors in place.



Note: If the IP Gateway has not yet been configured with appropriate IP parameters, do NOT connect the IP Gateway to an IP network.

3.3 Configure the RadioPro IP Gateway



Note: Before continuing, ensure that Wi-Fi connection has been disabled in the PC or Laptop being used to configure the IP Gateway.

The RadioPro ICU (IP Configuration Utility) must be used to configure each RadioPro IP Gateway with the necessary parameters. Configuration of each RadioPro IP Gateway must be performed before connecting the IP Gateway to a local area network.

Configure RadioPro IP Gateway settings:

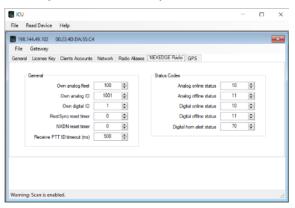
Please Refer to the <u>RadioPro IP Gateway Installation Guide</u> for information about how to connect to the IP Gateway and for settings that apply to all radio systems.

<u>Configure NEXEDGE specific settings:</u> (Once connected to the IP Gateway with the ICU Utility)

NEXEDGE Radio tab

Enter the appropriate radio ID values for the fields on this tab.

The **Receive PTT ID timeout (ms)** field is used to give the transmitting radio time to transmit its PTT ID before the default PTT ID is used.



GPS tab

If mapping locations of subscribers is required, place a check mark next to **Start GPS polling when online status received**. Leave this unchecked if GPS mapping is not needed, or if subscriber radios have been programmed to start GPS polling on their own.

Then choose a **Report interval time** to set the minimum time between successive GPS updates. Increasing this parameter will decrease the number of GPS updates, thereby allowing more channel bandwidth for voice conversations.

198.144.49.102 00:22	:4D:DA:55:C4				
File Gateway					
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Start GPS polling whe	en online status receive	d			
* Very much meters I	he correct status codes	to the NEVEDOR	Dealertak		
	infigure both the GPS a				
Report interval time:	10 🗘	seconds			

Refer to the *RadioPro IP Gateway Installation Guide* for instructions on how to connect the RadioPro IP Gateway to an IP Network, configure Port Forwarding, and installing RadioPro Clients.

4. APPENDIX

4.1 Appendix - Radio Interface Cables

Kenwood NEXEDGE NX-5700, NX-5800, NX-700, NX-800

Voice Radio

Interface Cable # S2-61769

Signal Name	IP Gateway DE-9* Pin #	NXx00 Radio DB-25 Pin #
Tx+ (Mic audio to radio) Transformer isolated, 600 ohms	4	6
Tx- (Mic audio to radio)	5	25
Rx+ (Speaker audio from radio) Transformer isolated, 600 ohms	8	17
Rx- (speaker audio from radio	9	18
Tx Data (from radio)	1	3
Rx Data (to radio)	6	2
Digital Ground	3	7

* Interface cable requires DE-9 Male to connect to the IP Gateway female connector.

Data Radio

Interface Cable # 89-10505 (standard DE-9 female to DB-25 male serial cable)

Signal Name	IP Gateway DE-9* Pin #	NXx00 Radio DB-25 Pin #
Tx Data (from radio)	2	3
Rx Data (to radio)	3	2
Digital Ground	5	7

* Interface cable requires DE-9 Female to connect to the IP Gateway male serial port connector.

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6. SYSTEM PLANNER TEMPLATE

PAGE 1 OF 2

RadioPro IP Gateways

Parameters Common to all IP Gateways

ICU.exe Admin Password for ICU.exe, default is "admin"	Dispatch Client Password for Dispatch client connections default is "user"	NTP Server IP Address Network Time Protocol

Parameters Unique to each IP Gateway

arameters omque to each	in eatenay				
GPS = GPS Data Revert. Each IP Gateway supports 1 Voice & 1 GPS Data Radio.	Name IP Gateway name has max 2 lines, 24 chars per line	Serial #	IP Address	Subnet Mask	Default Gateway
IP Gateway A	Example Gateway Name	1234	192.168.56.22	255.255.255.0	192.168.56.1
Voice Radio A0	Example Radio VR A0		192.168.10.1	255.255.255.0	
GPS Radio A1	Example Radio GPS A1		192.168.11.1	255.255.255.0	
IP Gateway B					
Voice Radio B0					
GPS Radio B1					
IP Gateway C					
Voice Radio C0					
GPS Radio C1					
IP Gateway D					
Voice Radio D0					
GPS Radio D1					
IP Gateway E					
Voice Radio D0					
GPS Radio D1					
IP Gateway F					
Voice Radio D0					
GPS Radio D1					
IP Gateway G					
Voice Radio D0					
GPS Radio D1					
IP Gateway H					
Voice Radio D0					
GPS Radio D1					
IP Gateway J					
Voice Radio E0					
GPS Radio E1					

If additional IP Gateways are needed, copy this page.

See next page for System Planner Template Page 2 of 2

SYSTEM PLANNER TEMPLATE

PAGE 2 OF 2

RadioPro Dispatch Clients

See <u>RadioPro Dispatch Installation and Configuration Guide</u> for more information.

Parameters Common to all Dispatch clients

Parameters Unique to each Dispatch client

PC Name	IP Address	License #	Licensed IP Gateway Connections	
	PC Name	PC Name IP Address Image: State of the		

RadioPro Solo, Talk, and Mobile Clients

See <u>RadioPro Solo Client Installation Guide</u> for more information.

Parameters Common to all Talk Clients

Administrator Login Name	Administrator Password
Not Editable	default is "admin"
admin	

User Login Name default is "user"	User Password default is "user"

If additional Solo, Talk, or Mobile client logins are needed, copy this page.