CTI Products

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



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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 Feature | Analog | Analog w/ FleetSync | Digital NXDN | Digital NXDN w/ call ack. | NXDN & LTR Trunking | NXDN Trunking (MsgTrnkd) |
|------------------------------|--------------|------------------------|--|---------------------------------|---------------------------|-----------------------------------|
| Voice Dispatch | \checkmark | ~ | < | ~ | ✓ | ✓ |
| Text Messaging | - | ~ | ~ | ~ | ~ | \checkmark |
| GPS Mapping | - | \checkmark | ~ | ~ | ~ | \checkmark |
| Status Updates | - | ~ | Image: A state of the state of | ~ | ~ | \checkmark |
| Selective Calling | - | ~ | Image: A transmission of the second se | Not Currently Supported | ~ | Not Currently Supporte d |
| Remote Monitor | - | ~ | ~ | ~ | ~ | ✓ |
| Remote Enable/Disa ble | - | ~ | ✓ | \checkmark | \checkmark | \checkmark |

3. CONFIGURATION AND INSTALLATION

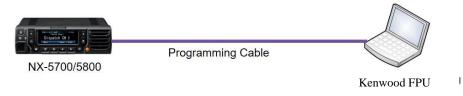
Use the steps in the following table to install a RadioPro System. Each step is discussed in detail starting on Page 6. Following installation of the IP Gateway in Step 5, at least one Client must be installed from Step 6.

| 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-700/800 radios see document # S2-61904.)

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-7x0/8x0 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-5007RC) Enhanced Encyption (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 |
| P P25 Network | System Type NXDN Conventional Y |
| NXDN Network | Signaling Type FleetSync Y |
| Personal | ID (FleetSync) |
| 4 🔚 1 : System 1 | Fleet (Own) |
| System Information | ID (Own) |
| Personal Features | ✔ Global ID |
| Zone/Channel | Unit ID (Own) |
| Optional Features | |
| 🔯 Key Assignment | ☑ Global ID |
| 🖻 🤯 Scan | Over-the-Air Alias |
| 🔯 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.

| o I 🗅 | 6 | 🔳 🗾 KPG-I | D1N | | | Optional Fea | tures | | | | | |
|----------------|----------------------------------|-----------------------|-------|----------|---------|------------------|------------------------|-----------|-----------|------------|--------------------|--|
| ■▼ | Model | Program | Tools | Setup | View | Operation | n | | | | | |
| Data Passwo | Voice a rd Lar | and Display nguage | | | | | | | | | | |
| File Nan | ne kpgd1r | n.dat | | | | | | | | | | |
| | 800 [Mobil | | | | | nal Features 1 | | | | | | |
| UHF : | 450-520 N | ИНz | | _ | | | ound Voice Announce | ment Powe | r-on Batt | ery Microp | hone-hook <u>H</u> | Iom Alert Ignition Function Password Stack Mode Serial Interface Expansion Switch Others |
| | iver Settin | - | | | 🕑 Disp | lay | | | | | | |
| | P25 Net | | | <u> </u> | 🕑 Sour | nd | | | | | | |
| ▶温 | NXDN N | letwork | | | Voice | e Announcement | | | | | | |
| 4 | Personal | I | | | Powe | er-on | | | | | | |
| - 4 | 📒 1 : Sy | ystem 1 | | | 🕑 Batte | ery | | | | | | |
| | s | System Informat | tion | | 🕑 Micr | ophone-hook | | | | | | |
| | P | Personal Feature | es | | Horr | n Alert | | | | | | |
| Þ 😽 | Zone/Ch | lannel | | | 🕑 lgnit | ion Function | | | | | | |
| 1 10 | Optiona | I Features | | | Pass | word | | | | | | |
| () | 💮 Opti | onal Features 1 |) | | 🕑 Staci | k | | | | | | |
| | Onti | onal Feature | | | 🕑 Mod | le | | | | | | |
| 10 | Key Assi | ianment | | | 🔿 Seria | al Interface | | | | | | |
| Þ Ö | | - | | | 0 | OM port No. | Function | Polarity | Stop Bit | Baud Rate | Flow Control | |
| | LTR | | | | COM | | None | Normal | 2 | 9600 | None | |
| | DTMF | | | | | l port 1 | Data + GPS Data Outp | | | 9600 | None | |
| | | | | | | pore 2 | News | Normal | 2 | 9600 | None | |
| | | | | | COM | I port Bluetooth | None | | | | None | |
| | OM Port Priority Serial Data | | | | | | | | | | | |
| | FleetSyn | ic. | | | | PC Inte | rface Protocol Version | 12 | | | | |
| ▶ 10 | | | | | | al Output | | | | | | |
| ▶ 🔯 | | | | 1 | | J Command Se | rial Output | | | | | |
| | DMR | | | | Seria | al Input | | | | | | |
| Ø | Encrypti | on | | | | Data Override | | | | | | |
| Ø | KMF Pro | ofile | | | | | | | | | | |

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 Setu | p 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 Image: P25 Network < | GPS GPS Position Display Latitude and Longitude Latitude and Longitude Format ddd mm.mmm * Altitude Altitude Unit Meter * Base Station Settings SGPGGA (NMEA) SGPGLL (NMEA) SGPRMC (NMEA) SPKLIDS/\$PKNDS (KW) SPKLID/\$PKNID (KW) SPKLISH/\$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 |
| 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 | | | | | | | | |
|---------------------------|----------------------|----------------|----------------------|--------------|--------------|--------------|--------------------|----------|
| Model Program Tools Setup | View | | | | | | | |
| | | | | | | | | |
| Product | | | | | | | | |
| Information | | | | | | | | |
| File Name kpgd1n.dat | | | | | | | | |
| NX-5800 [Mobile]: K/F | Extended Function | | | | | | | |
| UHF : 450-520 MHz | [+] [-] AUX Ren | mote Zone-Ch | annel <u>Modulat</u> | ion Line Mob | ile Function | | | |
| | 🖌 AUX | | | | | | | |
| Personal | Remote Zone-Chan | nel | | | | | | |
| | • Modulation Line | > | | | | | | |
| | PTT | Micline | MI2 Line | DI Line | with QT/DQT | with STE | | |
| Optional Features | Mic PTT | Connect | Connect | Discon ect | ~ | ~ | | |
| 🐼 Key Assignment | External PTT (voice) | Disconnect | connect | Disconnect | ~ | \checkmark | | |
| Scan | External PTT (Data) | Disconnect | Disconnect | Connect | ~ | \checkmark | | |
| OF LTR | Data PTT | Disconnect | Disconnect | Connect | \checkmark | \checkmark | | |
| DTMF | Modulation Line by | Mic PTT | | | | | | ANT |
| ▷ O 2-tone | | Connect | | | | | | ∇ |
| ▶ 🐼 MDC-1200 | Mic | Connect | | Audio Proce | essor | | Modulation Circuit | |
| FleetSync | міг — | OO | > | | | ĵ ∟ | | |
| ▷ (Q) P25 | | Disconnect | | | | | | |
| ▷ 🔯 NXDN | | | | | | | | |
| ▷ (Ô) DMR | | | | | | | | |
| Direction | Control Head Mic Inp | out (Control H | ead 1) Modul | ar Jack 🛛 🗸 | | | | |
| KMF Profile | Mobile Function | | | | | | | |
| D Operation Special Tone | | | | | | | | |
| 🔯 Audio Profile | | | | | | | | |
| b the Emergency | | | | | | | | |
| 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 | | | | | |

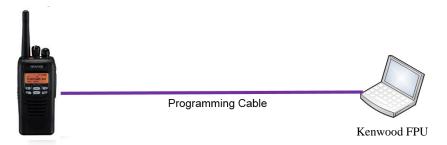
3.1.2 Configure the Data Revert Radio



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 Y |
| A 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.

| 🙋 ! 🗅 🗁 🛅 🛲 🛋 KPG-D1N | |
|--|---|
| Model Program Tools Setup | View |
| Product | |
| Product Information | |
| File Name kpgd1n.dat | |
| NX-5300 [Portable]: K/F | Personal Features |
| UHF : 450-520 MHz | [+] [-] General Analog NXDN List GPS Emergency |
| Transceiver Settings | System Number 1 🔹 System Name System 1 |
| P 25 Network NXDN Network | Contem Type NXDN Conventional Signaling Type FleetSync |
| - Personal | Analog |
| - 1 : System 1 | Data Zone-Channel (Analog) 1 + 2 + |
| System Information | Optional Signaling Decous |
| Personal Features | Audio Control (Analog) QT/DQT ~ |
| - Contract | PTT ID Type DTMF ~ |
| 4 🚳 1: Zone 1 | Beginning of Transmit |
| Zone/Channel Information | End of Transmit |
| Zone Edit | PTT ID Pause Time [s] 1 |
| Channel Edit | Mute Hold Time [ms] 600 🔹 🔹 |
| Optional Features | Restricted ID in Talk Around |
| Optional Features 1 | |
| Optional Features 2 Key Assignment | FleetSync Baud Rate [bps] 1200 V |
| Key Assignment Scan | FleetSync II |
| Scan | ✓ Manual Dialing |
| | Unit ID Encode Block |
| D 2-tone | Status 80-99 (Special) |
| ▶ ∰ MDC-1200 | PTT ID Sidetone |
| FleetSync | ✓ Stun/Kill Status Validation |
| ▷ | FleetSync Burst Noise Reduction |
| Þ 🔯 NXDN | Group ID |
| Model Program Tools | |
| | |
| File Name kpgd1n.dat NX-5300 [Portable]: K/F | Personal Features |
| UHF : 450-520 MHz | [+] [-] General Analog NXDN List GPS Emergency |
| Transceiver Settings | System Number 1 🕈 🖡 System Name System 1 |
| P P25 Network | System Type NXDN Conventional Signaling Type FleetSync |
| NXDN Network | • |
| Personal | 8 |
| 1 : System 1 | 9 |
| System Information | 10 |
| Personal Features | Parameters |
| 🔺 💮 Zone/Channel | GTC Count 2 |
| 4 🚳 1:Zone 1 | Number of Retries 2 |
| Zone/Channel Information | Transmit Busy Wait Time [s] 10.0 🖈 🕹 |
| 🧒 Zone Edit | Maximum ACK Wait Time [s] 2.0 🔹 🐳 |
| Channel Edit | ACK Delay Time [s] 0.5 🔹 |
| Optional Features | Transmit Delay Time (Receive Capture) [s] 0.0 🔹 🔹 |
| Optional Features 1 | Data Transmit Modulation Delay Time [ms] 400 🖈 🔻 |
| Optional Features 2 | ote recome Extension Time [ms] 0 |
| Key Assignment | |
| D Can | Random Access (Contention) |
| LTR | Status Message on Data Zone-Chinnel |
| DTMF | Short Message on Data Zone-Channel |
| ▷ ∰ 2-tone | ☑ Long Message on Data Zone-Chan lel |
| ▶ ∰ MDC-1200 | Transparent on Data Zone-Changel |
| FleetSync | |
| | Data Transmit with QT/DOT |
| ⊳ ∰ P25 | Data Transmit with QT/DOT Target Fleet 100 Target Fleet 100 |
| | |

- 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**.
 - iii. 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.

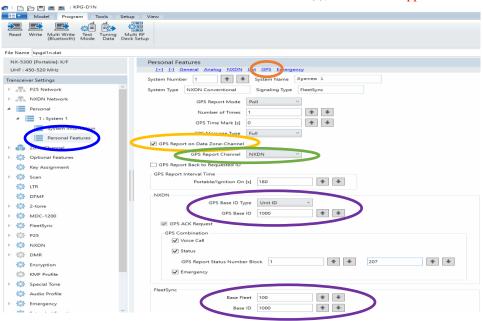
| Model Program Tools الله ا | Setup View |
|---|---|
| Product | |
| Product Information | |
| File Name kpgd1n.dat | |
| NX-5300 [Portable]: K/F | Personal Features |
| UHF : 450-520 MHz | [+] [-] General Analog NXDN List GPS Emergency |
| Transceiver Settings | System Number 1 🔹 🗣 System Name System 1 |
| P25 Network | System Type NXDN Conventional Signaling Type FleetSync |
| NXDN Network | General General |
| 🔺 🚞 Personal | Anden |
| 4 🔚 1 : System 1 | NXDN |
| System Information | Data Zone-Channel (NXDN) 1 🔹 🔹 4 |
| Personal Features | Audio Control (MARY) |
| 4 🚳 Zone/Channel | Persistent Group ID (NXDN) |
| 4 🚳 1 : Zone 1 | No. Group ID List Number |
| Zone/Channel Information | 1 None |
| one Edit | 3 None |
| Channel Edit | 4 None |
| A Optional Features | 5 None |
| Optional Features 1 | 6 None 7 None |
| Optional Features 2 | 7 None 8 None |
| Key Assignment | 9 None |
| ▷ 🔯 Scan | 10 None |
| DIR LTR | |
| DTMF | Base ID Type Unit ID 🗸 |
| D 2-tone | Base ID 1000 🕈 🕏 |
| ▷ 🔅 MDC-1200 | Manual Dialing |
| FleetSync | Individual ID Encode Block |
| ▷ 🤯 P25 ▷ 🦝 NXDN | Special Status |
| NXDN | Remote Stun/Kill |
| Model Program Tools Setup | V INVV |
| Product Information | |
| Product Information | |
| Product Information File Name kpgd1n.dat | Parameter Frankrisen |
| Product Information | Personal Features [-] [-] Seneral Analog NXDN List GPS Emergency |
| Product Information File Name kpgd1n.dat NX-5300 [Portable]: K/F | [+] I-] General Analog NXDN List GPS Emergency |
| Product Information File Name kpgd1n.dat NX-5300 (Portable): K/F UHF : 450-520 MHz | I=1 I=1 General Analog NKDN List GPS Emergency System Number 1 + System Name System 1 |
| Product Information File Name kpgd1n.dat NX-5300 (Portable): K/F UHF : 450-520 MHz Transceiver Settings | I=1 E General Analog NKDN List GPS Emergency System Number 1 * * System Name System 1 System Type NXDN Conventional Signaling Type FleetSync |
| Product Information File Name legal1n.dat NX-3300 (Portable); K/F UHF ; 450-520 MHz Transeever Settings P _T P25 Network | I-1 L-1 General Analog NKDN List GPS Emergency System Number 1 * * System Name System 1 System Type NXDN Conventional Signaling Type FleetSync Maximum ACK Wait Time [s] 2.0 * * |
| Product Information File Name Legal1n.dat NX-5300 (Portable); K/F UHF : 450-520 MH2 Transeever Settings 1: 4. P25 Network 2: P Provolat 4: P Provolat 4: 1: System 1 | I-1 I. General Analog NKDN List GP5 Enregency System Number I Image: System 1 System Type NXDN Conventional Signaling Type Maximum Ack Wait Time [s] 2.0 Image: I |
| Product Information File Name kpgd1n.dat NX-5300 (Portable); K/F UHF; 450-520 MKP UHF; 450-520 MKP Transceiver Settings P | I-1 I-1 General Ansion NList. GPS Emergency System Number 1 • • System Name System 1 System Type NXDN Conventional Signaling Type FreetSync Maximum ACK Wait Time [s] 2.0 • • ACK Delay Time (Beceive Capture) [s] 0.0 • • |
| Produkt Information File Name kpgd1n.dat NX-5300 (Portable) K/F UHF: 450-520 MHz Transceiver Settings ▷ | I-1 E.1 General Analog NUCN List GPS Enrorgency System Number 1 Image: System Name System Same System 1 Image: System Name System Nam System N |
| Product Information File Name EpgeIn.dat NX-5300 (Portable): K/F UUF: 150-520 MHz Transceiver Settings P | I-1 E.1 General Analog NUCN List. GPS Enrorgency System Number 1 • • System Name System 1 System |
| Product Information File Name Legal1n.dat NX-5300 (Portable); K/F UHF : 450-520 MH2 Transeever Settings P | I-1 L.S. General Analog NKCN List. GDS Enregency System Number Image: System Name System Name System Type NXDN Conventional Signaling Type Maximum ACK Wait Time (t) 2.0 Image: System Type Maximum ACK Wait Time (t) 3.3 Image: System Type Data Transmit Delay Time (ms) 400 Image: System Type Individual Call Acknowledge Request Image: System Type Image: System Type |
| Product Information File Name Reput Indat NX-5300 (Portable): K/F UHF: 450-520 MHz Transceiver Settings P | I-1 I.S. General Analog NKCN List. GPS. Emergency System Number 1 • System Name System Number 1 • • System Name System Nype NXDN Conventional Signaling Type FreetSync Maximum ACK Wait Time [s] 2.0 • • ACK Deley Time (Receive Capture) [s] 0.0 • • Data Transmit Modulation Delay Time (ms) 400 • • Preamble Length 24 • • 40 (ms) Individual Call Acknowledge Request Individual Call Acknowledge Request Individual Call Acknowledge Request |
| Product Information File Name Eggd1n.dat NX-5300 (Portable): K/F UHF: 1450-520 Mi/z Transeiver Settings P | I-1 I.Serseral Analog NKON List. SPS Emergency System Number |
| Product Information File Name Legal n.dat NX-5300 (Portable): K/F UHF 1: 450-320 Mi/z Transevere Settings P | I-1 I.S. General Analog NKCN List. GPS. Emergency System Number 1 • System Name System Number 1 • • System Name System Nype NXDN Conventional Signaling Type FreetSync Maximum ACK Wait Time [s] 2.0 • • ACK Deley Time (Receive Capture) [s] 0.0 • • Data Transmit Modulation Delay Time (ms) 400 • • Preamble Length 24 • • 40 (ms) Individual Call Acknowledge Request Individual Call Acknowledge Request Individual Call Acknowledge Request |
| Product Information File Name Registratory NX-3300 (Portable) (X/F Utrif: 430-520 MHz Tosscolar Settings P | I-1 L3 General Analog NKON List. GPS Enregency System Number System Number System Number < |
| Product Information File Name Legal n.dat NX-5300 (Portable): K/F UHF 1: 450-320 Mi/z Transevere Settings P | I-1 I.S. General Analog NKON List. GPS. Emergency System Number |
| Product Product Product Anno 2000 File Name Regardinate NN-300 (Portable) K/F UHF: 1450-320 MHz Transelver Settings P | I-1 I.Senzeral Analog NKON List. GPS Enregency System Number System Number System Number System Number System Type NXDN Conventional Maximum ACK Wait Time [s] Maximum ACK Wait Time [s] |
| Product Information File Name Legal1n.dat NX-5300 (Portable): X/F UHF: 430-520 MHz Transeiver Settings P | I-1 1. Senseral Analog NKON List GDS Entregency System Number |
| Product Product File Name Regultindat NX-5300 (Portable) K/T Usfr: 430-520 Mil2 Tonsceiver Settings P | I-1 1.5 General Analog TMCON List GPS Enrequency System Number |
| Product Product File Name kpgd1n.dat NX-3300 (Portable) K/F UHF: 1430-320 Mile Transceiver Settings P | I-1 1. Senseral Analog NKON List GDS Entregency System Number |
| Product Product Product NX-5300 (Portable): K/F UHF: 450-520 MHz Tansceiver Settings P | I-1 1.5 General Analog TMCON List GPS Enrequency System Number |
| Product Product Product NX-5300 (Portable): K/F UHF: 1450-520 MHz Transeiver Settings P | I-1 1.5 General Analog TMCON List GDS Threegency System Number Image: System Name System Name System Name System Type NXDDI Conventional Signaling Type FleetSync Maximum ACK Wait Time (1 2.0 Image: System Target (1 ACK Delay Time (1 2.0 ACK Delay Time (1 2.0 Image: System Target (1 Image: System Target (1) |
| Production Production File Name Regularidat NX-5300 (Portable): K/F UHF: 430-520 MHz Tonsceiver Settings P | I-1 1.5 General Analog TMCON List GPS Enrequency System Number |
| Product Information File Name kpgd1n.dat NX:5300 [Portable]: K/F UHF : 450-220 MHz P | I-1 I.S. General Analog TMCON List. GPS: Enrequency Bytem Number System Number System Number System Number System Number System Number System Number Nationum ACK Wait Time [s] 0.5 System Number Acc Deley Time (Receive Capture) [s] 0.0 System Number Data Transmit Modulation Deley Time [ms] 400 System Number Individual Call Achnowledge Request System Tone (ms) Call Processing Tone Call Processing Tone (ms) Call Processing Tone Delay Time [s] 0.0 (ms) Incloning Reset Time [s] 0 (ms) Incloning Reset Time [s] 0 Incloning Reset Time |
| Production Production File Name Regularidat NX-5300 (Portable): K/F UHF: 430-520 MHz Tonsceiver Settings P | I - 1 Concert Analog VMCM List 065 Entregency System Number |

- 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>] <u>General</u> <u>Top/Side</u> Front <u>Mic Key</u> <u>Call</u> <u>Direct Channel</u> Menu <u>Character Entry</u> |
| 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:

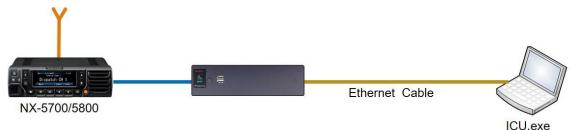
- 1. Connect the DB-25 side of cable S2-617691 to the DB-25 connector on the rear of the NEXEDGE NX-800 radio.
- 2. Connect the DE-9 male side of the cable to the DE-9 female connector on the rear of the IP Gateway.
- 3. Ensure that jack screws on both connectors are tightened to hold connectors in place.

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-800 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:

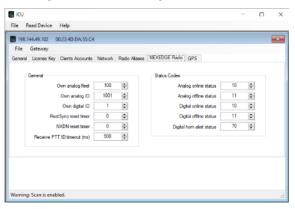
Please Refer to the <u>RadioPro IP Gateway Installation Guide</u> for information about how to connect to the IP Gateway and for settings that apply to all radio systems.

<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.

| 🖪 ICU File Read Device Help | | × |
|--------------------------------|--|----|
| | | |
| Warning: Scan is enabled. | | .d |

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 to DB-25 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 Male to connect to the IP Gateway female connector.

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6. SYSTEM PLANNER TEMPLATE

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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 eacr | 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 S2-61785</u> for more information.

Parameters Common to all Dispatch clients

Parameters Unique to each Dispatch client

| Administrator Password for Edit Mode | PC Name | IP Address | License # | Licensed IP Gateway Connections |
|---|---------|------------|--------------|------------------------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

RadioPro Solo, Talk, and Mobile Clients

See <u>RadioPro Solo Client Installation Guide S2-61568</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" |
|--------------------------------------|------------------------------------|
| | |
| | |
| | |
| | |
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| | |

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