



Radio Dispatch Engineering Group

Platform Version 4.000
Release Notes

Revision B
Date: 04/12/2007

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1. Revision History

Revision	Date	Author	Description
A	3/20/07	Radio Dispatch Engineering Group	Initial draft
B	4/12/07	Radio Dispatch Engineering Group	Added details description

2. Overview

These are the release notes for the Radio Dispatch Platform Release 4.000, which include C-Soft, IP-223, IP-1616, IP-2002, and NEO-10. This release contains improvements and enhancements, which are listed in the new features section of this document, as well as fixes to reported problems from previous releases.

This is the first release for the platform 4.000 and should replace previous releases.

NOTE: All devices on the system need to be updated to the current 4.000 platform software for system compatibility.

3. New Features

1. C-Soft

- Support 5/6 tone signaling formats – Emergency, Group, Individual, and Status Calls.
- New Windows
 - Per Line Call History – Running visual record of date, time, duration, status, and ID of incoming calls for each individual line on the console.
 - Active Emergency – Incoming emergency signal opens this window. Dispatcher can see incoming ID, acknowledge, and resolve the emergency within this window.
 - Emergency History – A running log of up to 500 lines, for resolved and acked emergencies.
 - Manual Call List – Manual dial user interface for iDen calling and 5/6 tone calling. (All the windows will be utilized for Fleetsync and MDC1200 encoding.)
 - Call List Window – Ability to call a user out of the User ID list or Group ID List. (This can also be used for iDen calling also Per Line Call History.)
 - Status Window – Ability to set the C-Soft's current status. This window is available through the Per Line Call History, Manual Call List, and Call List Windows.
- Select Call and Group Call Alert – When certain users call or a user group calls into a console the line will blink and the console will play an audible tone.
- Ability to disable console generated iDen Tones.
- Group ID List – List to alias Group IDs to text and color.
- Status ID List – List to alias Status IDs to text and color.
- Per Line Console ID - An ID that can be associated to a line.
- Radio Offhook Button –To support advanced telephony operation. It allows for more control of radios through a POTS line.
- Sepura and MDC1200 Status – Ability to display/alias Sepura and MDC 1200 status.

2. IP223

- Decode Nextel Emergency – Able to receive and decode ID and information related to incoming iDen emergency signals.
- Sepura Status Messaging – Able to decode, and display status messages generated via Tetra (Sepura SRM200/3500) radios.
- Radio Telephony Operation – Allowing local console to change channel of the remote radio via POTS line. Also, it will give operators the ability to designate certain lines to automatically failover to a standard POTS line if the IP connection fails.
- Enhanced Crosspatch capabilities
 - Line to line crosspatch – Enable and disable via DTMF strings.
 - Dial – Remote user with portable radio can key a DTMF string, causing IP-223 to take the PIB-223 off-hook, dial a preprogrammed phone number and establish a patch between the devices.
 - Dial VoIP – Remote user with portable radio can key DTMF string causing IP-223 to join different multicast group and port – mapping the IP to a different channel.
 - Phone Patch - Remote user with portable radio can key a DTMF string, causing IP-223 to take PIB-223 off-hook. The user can then manually dial a phone number.
- Kenwood P25 TK5710/5810 serial control – Supports decode of Fleetsync ID and P25 ID, channel change, scan ON/OFF, and monitor. PLEASE NOTE: As of the date of this publication, due to a limitation in the current Kenwood radio firmware, channel update in scan mode does not work.
- Start/Stop Function Tone Line to Line Crosspatch – Designated function tones have the ability to automatically set up and knock down line-to-line crosspatches within the device.
- RP251/C550 Modes – Supports legacy product functionality when a PIB-223 is connected.
- Phone Station ID – Generates unique DTMF ID string per line in various phone-based modes.
- 5 Tone Detection – Decodes 5-tone messages received from remote radios and sends console information to display.
- COR Click Dialing – While using COR the remote user can key click a portable radio, causing the IP-223 to take a PIB-223 off-hook, dial a preprogrammed phone number to establish a telephone connection between remote user and a designated dispatch console.
- Double # DTMF Hang up – Ability to hang up the phone line in the auto answer mode and COR click dialing.
- Improved Web-Based Programming Interface – Redesigned web page displays important information on start screen and simplifies navigation to critical programming areas.

3. IP1616

- Improved Web-Based Programming Interface – Redesigned web page displays important information on start screen and simplifies navigation to critical programming areas.
- Console name changeable through webpage.
- NEO-10 Support – Able to control two NEO-10 relays from the console.
- Nextel Support – Full support of NI-223 features, including ID, go-ahead beeps, busy signal, and manual dial.
- Scan feature added for supported radios.
- Emergency – Decodes incoming emergency signals from supported ANI formats.
- Clear/Coded Transmit for EFJ RS5300 mobile radio.
- Radio Telephony Operation – Allowing local console to change channel of the remote radio via POTS line. Also, it will give operators the ability to designate certain lines to automatically failover to a standard POTS line if the IP connection fails.
- Paging Sidetone.
- Volume control on notification tones.

- Optional enable/disable of Rx and Tx FTone updates.
- PTT Timeout – Selectable timeout duration of PTT.
- RX Block Time – Selectable timeout for turning off Rx Block after PTT.
- Ability to disable console generated iDen Tones.
- Call history – Up to last 50 incoming calls displayed.
- Autodial from history list and phone list.
- AUX audio input can be mapped to any line.
- Caller ID (Phone, iDen, MDC, Fleetsync, Tetra, and 5-tone).

4. *IP2002*

- Improved Web-Based Programming Interface – Redesigned web page displays important information on start screen and simplifies navigation to critical programming areas.
- Console name changeable through webpage.
- Nextel Support – Full support of NI-223 features, including ID, go-ahead beeps, busy signal, and manual dial.
- Scan feature added for supported radios.
- Emergency – Decodes incoming emergency signals from supported ANI formats.
- Clear/Coded Transmit for EFJ RS5300 mobile radio.
- Radio Telephony Operation – Allowing local console to change channel of the remote radio via POTS line. Also, it will give operators the ability to designate certain lines to automatically failover to a standard POTS line if the IP connection fails.
- Paging Sidetone.
- Volume control on notification tones
- Optional enable/disable of Rx and Tx FTone updates.
- PTT Timeout – Selectable timeout duration of PTT.
- RX Block Time – Selectable timeout for turning off Rx Block after PTT..
- Ability to disable console generated iDen Tones.
- Call history – Up to last 50 incoming calls displayed.
- Autodial from history list and phone list.
- AUX audio input can be mapped to any line.
- Caller ID (Phone, iDen, MDC, Fleetsync, Tetra, and 5-tone).
- Instant recall recorder added.
- Paging added.
- Option to have handset and speaker active at the same time.
- Direct menu access to change the time (w/o restarting the console).

5. *NEO-10*

- Support QOS.
- Improved Web-Based Programming Interface – Redesigned web page displays important information on start screen and simplifies navigation to critical programming areas.

4. Feature improvements and known issues fixed in this release

1. *C-Soft*

- Rx Block Delay – Quick PTT presses would cause Rx Block to remain ON indefinitely. Rx Block selected lines option was not working.
- HB3 Relay – The HB3 relay couldn't be setup as latched on the main C-Soft form.

- Crosspatch On/Off – Improved the parallel console updates of crosspatch ON and OFF.
- Paging – Fixed an issue where the Main PTT would get stuck ON.
- Global Call List Window - Crosspatch Audio IRR wasn't getting recorded in the Call List Window. IRR Audio would also get associated to old calls.
- Mic AGC – This was only working for Per Line PTTs, now it works on all PTTs
- iDen issues – Autodial wasn't working properly. iDen group and alias names weren't being displayed correctly.
- SUP Icon – The Supervisor Icon wasn't showing up on supervised lines.
- C-soft_crossmutes.txt – This file wasn't working for some IP addresses.
- C-Soft Designer Errors – Added more designer error checks.
- iDen and Phone Ring Tones – Level is now based on Tone/DTMF Sidetone Level.
- Phone Line Mute Ring – Added the option to mute a phone line that is ringing.
- Residue ANI – Added the option so ANI remains on the Select button until a new ANI is received.
- Mute Selected Lines – Added the option to mute selected lines.
- Crosspatch Clear – The Crosspatch Clear button will release the Crosspatch button.
- Emergency Cancel – This was changed to Emergency Resolve to match the Emergency Windows.
- Emergency Resolve – Will stop Emergency Tones if there are no other emergencies active.
- IP223 bits – This was removed from the Select button setup.
- C-Soft Designer Menus – The Menu Labels were changed to match the Dialog window names.

2. IP223

- Simultaneously received iDen group calls on both lines issue repaired.
- Fixed update channel while in scan mode for Kenwood x180 radio.
- Improved FTP security measures.
- Increase port capacity to 65535 instead of original 32000.
- Implement Crosspatch timeout for all crosspatch modes.
- Fixed remote crosspatch.
- Clone now only clones same device type.

3. IP1616

- Better Navigation for enabling/disabling FTone and navigation through IDs in ID Directory.
- Tape Mix Setup repaired.
- IRR only records when audio is present.
- Clone now only clones same device type.
- PIN change now works correctly so when new PIN is entered, it does not reset the old PIN if the new PIN format is wrong or new PIN does not match.
- When receiving a Select Call the console generates a ring.
- Supervisor mode now can drop operator PTT.
- Disabled web page reset feature while upgrading console's software.
- All lines are now correctly initialized to the first enabled function tone.
- Increase port capacity to 65535 instead of original 32000.
- Allow IP223's base IP Address to be entered into the multicast setup web page.
- Improved FTP security measures.
- Increased ID size in ID Directory to 20 characters.
- Improve paging user interface.
- Improve Rx audio where sometimes it becomes very loud with a constant volume.

4. IP2002

- Added Desk Mic Gain.

- Added Handset Mic Gain.
- Added Handset Speaker Gain.
- Added Speaker Gain.
- ID Directory now supports 500 IDs instead of 100 IDs.
- Better Navigation for enabling/disabling FTone and navigation through IDs in ID Directory.
- Tape Mix Setup repaired.
- Clone now only clones same device type.
- PIN change now works correctly so when new PIN is entered, it does not reset the old PIN if the new PIN format is wrong or new PIN does not match.
- When receiving a Select Call the console generates a ring.
- Improve FTone change/navigation on console.
- Supervisor mode now can drop operator PTT
- Mute headset sidetone when not PTT.
- Channel name limited to 9 characters so it displays correctly on the LCD.
- Volume is now more accurate. When it's all the way down it mutes, while all the way up, it turns on the max volume output. By default, the volume is set to the middle of the volume bar.
- Disable web page reset feature while upgrading console's software.
- All lines are now correctly initialized to the first enabled function tone.
- Increase port capacity to 65535 instead of original 32000.
- Allow IP223's base IP Address to be entered into the multicast setup web page.
- When no Handset/Headset present is enable, the volume control now correctly controls the speaker volume rather than the Handset/Headset volume.
- Improved FTP security measures.
- Increase ID size in ID Directory to 20 characters.

5. NEO-10

- Enable user to enter debounce time in ms, s, min, and hr.
- Echo Packet function repaired.
- Clone now only clones same device type.
- PIN change now works correctly so when new PIN is entered, it does not reset the old PIN if the new PIN format is wrong or new PIN does not match.
- Improved FTP security measures.
- Disable web page reset feature while upgrading console's software.
- Increase port capacity to 65535 instead of original 32000.

5. Installation and Upgrade

Replace C-Soft runtime and C-Soft designer to upgrade C-Soft applications. For IP-223, NEO-10 and hardware consoles please use VEGA FTP version 1.3 to upgrade the firmware.

1. C-Soft

- Any previous designs will need to be opened and saved in C-Soft Designer 4.000 to upgrade them.

2. IP-223

- It is important to print out your web page settings for IP-223 before updating the firmware. It will reset the parameters unless upgrading from version 3.000 or later.

3. *IP-1616*

- It is important to print out your web page settings for IP-1616 before updating the firmware. It will reset the parameters unless upgrading from version 1.027 or later.

4. *IP-2002*

- It is important to print out your web page settings for IP-2002 before updating the firmware. It will reset the parameters unless upgrading from version 1.017 or later.

5. *NEO-10*

- It is important to print out your web page settings for NEO-10 before updating the firmware. It will reset the parameters unless upgrading from version 1.023 or later.