



TELEX

Radio Dispatch

Radio Dispatch Engineering Group

IP-224 Version 1.300 Engineering Release Notes

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Revision History

Revision	Date	Author	Description
01	05/07/12	Radio Dispatch Engineering	Firmware Version 1.000 Release
02	08/31/12	Radio Dispatch Engineering	Firmware Version 1.100 Release
03	02/18/13	Radio Dispatch Engineering	Firmware Version 1.200 Release
04	08/20/14	Radio Dispatch Engineering	Firmware Version 1.300 Release

Overview

These are the release notes for the IP-224's firmware version 1.300. Cross application compatibilities are outlined in this document.

Important

After upgrading from a previous firmware revision to version 1.200 or newer, the unit will reboot and begin the process of updating the system components to the new BCH ECC method. During the update process, the unit will display "Firmware Updating". This update process takes approximately 1 minute, after which the unit will self-reboot and operate normally. **Ensure that the unit completes the update cycle and boots normally before removing power from the unit.**

After the IP-224 firmware has been successfully upgraded to version 1.200 or newer, the firmware cannot be reverted to any previous version (1.102 or earlier). Any attempt to downgrade the firmware version via TSM will be refused by the IP-224.

New Features

Version 1.300

- Added support for Ethernet port Auto Failover. The feature is enabled by setting the webpage checkbox Ethernet Setup->Ethernet Port Setup->Auto Failover Enabled or by setting the front panel display checkbox Menu->Network Settings->Auto Failover.

The Ethernet port Auto Failover works as follows:

- o The IP-224 selects the Primary port at power up.
 - o When the feature is enabled, the IP-224 monitors the link status on the port (checks once per second). If the Ethernet link is lost, the IP-224 switches to the Secondary Ethernet port.
 - o The IP-224 will continue using the Secondary port until the link on the port is lost, the port selection is changed via the webpage/display, or the IP-224 is rebooted.
 - o The Active Ethernet port can be switched via the webpage (Set Active Port radio buttons) or via the front panel display menu (Set Active Port). The Active Port can be changed regardless of the Auto Failover Enabled setting (for debug/setup purposes).
 - o The System Status tab on the webpage has a field for displaying which Ethernet port is currently active.
- Added support for a TSM firmware downgrade error code. It is no longer possible to downgrade the IP-224 to a firmware version below v1.103.

Local Mode: Serial Type - All

- Added support for MOTOTRBO Interface.
- Added support for Sprint Direct Connect.
- Added the ability to acknowledge Kenwood NEXEDGE NXDN emergencies.
- Added the ability to trigger an Emergency call when decoding a status message. To enable enter the status number into the Per Line Setup->Signaling Setup->Emerg. Status 1 and/or Per Line Setup->Signaling Setup->Emerg. Status 2.
- Added the following support for Kenwood Radios:

Feature	Description	Supported C-Soft
Added serial control for Kenwood Selcall, Individual Call and Group Call.	Supported Radios Kenwood: • 5x10 Analog – Fleetsync • 5x10 Digital – P25 • NEXEDGE Analog – Fleetsync • NEXEDGE Digital – NXDN • x150 • x180 • x80	Version: 6.500 or later C-Soft buttons: Radio SelCall, PTT-Private Call, PTT-Group Call
Added serial control for Kenwood Revive or Radio Enable.		C-Soft buttons: Radio Enable
Added serial control for Kenwood Stun or Radio Disable.		C-Soft buttons: Radio Disable
Added serial control for Kenwood Send Status.	Supported Radios Kenwood: • 5x10 Analog – Fleetsync • NEXEDGE Analog – Fleetsync • NEXEDGE Digital – NXDN • x150 • x180 • x80	Version: 6.500 or later C-Soft buttons: Radio Status
Added serial control for Kenwood Status Request.		C-Soft buttons: Radio Status Request
Added serial control for Kenwood Remote Monitor.	Supported Radios Kenwood : • 5x10 Digital - P25 (Trunking) • NEXEDGE Analog – Fleetsync • NEXEDGE Digital – NXDN	Version: 6.500 or later C-Soft buttons: Remote Monitor The remote transmit duration is fixed for 30 seconds in C-Soft.

- Added support for displaying “Scan List Active” while the IP-224 is querying a Kenwood radio for its scan list.
- Added support for sending Encryption and Talk Around updates to IP Consoles when toggling Scan On/Off with Kenwood serially controlled radios.
- Added Per Line Setup->Delay/Timeout Setup->Selcall Min. PTT webpage parameter. This parameter is used to program the minimum PTT time in msec that Kenwood serially controlled radios will key up after receiving a Selcall, Individual Call, or Group Call from IP Consoles.

Feature improvements and known issues fixed in this release

Version 1.300

Fleetsync & MDC 1200 – Over the Air

- Fixed an issue where the IP-224 wasn't sending C-Soft the Group ID for Over the Air Fleetsync and MDC 1200 Group Calls.
- Fixed an issue where Fleetsync decode of text messages wasn't always being sent correctly to C-Soft.
- Fixed numerous issues with Radio Select Calls, Radio Status, Radio Enable, Radio Disable, and Radio Status Request.

Local Mode: Serial Type – EF Johnson 5300

- Fixed an issue where the IP-224 wasn't serially decoding MDC 1200 from the EF Johnson radio.
- Fixed an issue where monitor couldn't be enabled or disabled on the EFJohnson 5300.
- Fixed an issue where the radio's encryption state and C-Soft's encryption button were out of sync.
- Fixed an issue during scan mode where the IP-224's TX channel and the EF Johnson radio's TX channel were out of sync on SmartNet, SmartZone, MultiNet, or P25 trunking channels.
- Fixed an issue where the IP-224 would lose serial control of the EF Johnson radio when switching to SmartNet, SmartZone, MultiNet, or P25 trunking channels.
- Fixed an issue when performing fast channel changes and PTTing on specific frequencies with serially controlled EFJohnson radios, the IP-224 could lose serial control of the radio.
- Fixed an issue if the EFJohnson 5300 lost power the IP-224 wasn't reestablishing serial communications.

Local Mode: Serial Type – Kenwood Radios

- Fixed an issue where the IP-224 would lose serial control of the Kenwood x80.
- Fixed an issue where the IP224 displayed "No Serial" after receiving a status message from a serially controlled Kenwood x180.
- Fixed issues with toggling Encryption and Talk Around On/Off with the Kenwood TK-5x10.
- Fixed an issue when a serially controlled Kenwood TK-5x10 is scanning in P25 mode, reliable channel updates weren't being sent to IP consoles.
- Fixed an issue if the Kenwood 5x10 lost power the IP-224 wasn't reestablishing serial communications.
- Fixed an issue where Kenwood Nexedge NXDN User ID and Calling ID were swapped.
- Fixed an issue where Group IDs weren't always being sent to IP Consoles for Kenwood serial controlled radios.
- Fixed issues with toggling Scan On/Off with the Kenwood TK-x80, TK-x150, TK-x180, TK-5x10, and NEXEDGE.
- Fixed an issue where the IP-224 wasn't sending a channel update to IP Consoles after querying the scan list.
- Fixed an issue where the radio's encryption state and C-Soft's encryption button were out of sync.

Tone Mode:

- Fixed an issue where the PTT relay wasn't being set in Tone Mode.
- Fixed an issue when the IP-224 was in 2-Wire Tone Mode, frequency changes in C-Soft were not being muted from the IP-224's RX audio.



Webpage Configuration:

- Increased the Per Line Setup->Delay/Timeout Setup->RX Delay maximum time to 5000ms.
- Increased the Per Line Setup->Delay/Timeout Setup->TX Delay maximum time to 5000ms.
- Increased the Per Line Setup->Relay Setup->Monitor Relay->Timed maximum time 32000ms.
- Removed the Per Line Setup->Options Setup->Busy Channel Lockout checkbox from the webpages because the feature was never implemented.
- Changed the Gain Setup->RX/TX Gains->TX Output default gain for MTRBi to -15 dB.
- Fixed an issue where the Gain Sliders wouldn't work with Internet Explorer 10.
- Fixed an issue where the RX AGC enable wouldn't work with Chrome.
- Fixed an issue where the Redirect Timer wouldn't work with Firefox or Chrome.
- Fixed minor formatting issues with the webpages like alphabetizing the Additional Features, Multicast Setup->Line Setup->Serial Types, and System Status.
- Updated Copyright to 2014.

Miscellaneous

- Fixed an issue when restoring factory defaults, the IP-224 would lose both TX and RX audio. In order to fix this issue in previous versions the customer needs to Submit and Save the Multicast Setup webpage.
- Fixed an issue where TX audio wasn't being sent out after rapidly keying up and down.
- Fixed an issue where rapidly keying up and down could cause random key down times.
- Fixed an issue where the PTT Relay would drop before the (TX Delay + PTT Delay) time expired.

Compatibility

C-Soft Application

- Version 6.500+

Telex System Manager

- Version 1.600+ - Necessary for programming parameters and firmware upgrades.

Installation and Upgrade

Please use Telex System Manager 1.600 or newer to upgrade the firmware.