Radio Dispatch Engineering Group

IP-224 Version 2.300
Engineering Release Notes

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F01U267043 – Revision 09   December 1, 2017

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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
05	01/09/15	Radio Dispatch Engineering	Firmware Version 1.400 Release
06	01/14/15	Radio Dispatch Engineering	Firmware Version 2.000 Release
07	04/08/16	Radio Dispatch Engineering	Firmware Version 2.100 Release
08	06/02/17	Radio Dispatch Engineering	Firmware Version 2.200 Release
09	12/01/17	Radio Dispatch Engineering	Firmware Version 2.300 Release

Overview

This document contains the release notes for the IP-224's firmware version 2.300. The release notes include all of the changes and fixes since official release version 2.200. Cross application compatibilities are outlined in this document.

Important

Starting with IP-224 firmware version 2.000, some serial controlled radio types now require an Additional Features | Access Key to be enabled. See the table below.

After upgrading from a previous firmware revision to version 2.000 or newer, the unit will reboot and begin the process of updating system components. 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 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 2.300
Additional Features:
- Added Advanced Interface Option (North American) and Advanced Interface Option (Export) additional features. The Advanced Interface Option (North American) Access Key enables all available Serial Types on both lines while the Advanced Interface Option (Export) Access Key enables all available Serial Types except the MOTOTRBO Interface on both lines. The MOTOTRBO Interface is not available outside of North America. After upgrading the IP-224 to version 2.300 or newer the EFJohnson Radio, iDEN Radio, Sprint Direct Connect, DMR Interface, NXDN Interface, and P25 Interface will update to the Advanced Interface Option (North American) while the TETRA Interface will update to the Advanced Interface Option (Export).
- Removed Fleetsync Decode, Fleetsync Encode, MDC1200 Decode, and MDC1200 Encode additional features as they are now part of the IP-224 Base Unit. No Access Key is required.

Feature improvements and known issues fixed in this release

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Local Mode: Serial Type – All

- Fixed an issue where received Kenwood NX-5x00 DMR individual call information was sent to C-Soft as a group call.
- Fixed an issue where Kenwood NX-5x00 P25 Group calls generated from C-Soft wouldn't work.
- Fixed an issue where Radio Remote Monitor Acknowledge/No Response messages need to be sent to C-Soft for Kenwood and Telex Generic Serial Types.
- Updated the Telex Generic Serial Protocol Interface to include an 8 digit Source ID (Console ID) for Radio Status Message Request, Radio Remote Monitor, Radio Enable, Radio Disable, Radio Select Call, and Radio Status Message.
- Updated the Telex Generic Serial Protocol Interface to send channel information to IP Consoles for the Response to Query Current Radio Channel and the Channel Notification commands.
- Updated the Telex Generic Serial Protocol Interface to send talk around and encryption information to IP Consoles for the Response to Radio Function Status Request and the Function Status Notification commands.

SNMP v3:

- Fixed an issue when SNMP was disabled the SNMP port was still opened.
- Fixed syntax issues with the SNMP MIB file Additional Features and Serial Type tables.
- Updated SNMP protocol from version 2 to version 3.
  - Username – admin
  - Default Authorization Password – telex1234
  - Default Privacy Password – telex1234
  - Security Mode – Authorization and Privacy
  - Authorization Method – SHA
  - Privacy Method – AES 128

  Note: If using SNMP v3 make sure to change the Default Authorization and Privacy Passwords.

Miscellaneous

- Updated the Cherokee web server application.
- Changed the Cherokee web server to use https instead of http.

  Note: A web browser security exception may be required to access the IP-224.

Serial Type Information

Serial Type	Device	Tested Device Firmware	IP-224 Additional Features Access Key
EFJ 5300/VMx00	EFJohnson RS-5300 EFJohnson 53SL ES EFJohnson VMx00 *Multi-System radio*	4.14.5 6.16.18 8.16.21	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Hytera MD782	Hytera MD782G *DMR radio*	8.00.06.007	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Hytera MT680	Hytera MT680 *TETRA radio*	V2.06.15.009	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Icom	ICOM IDAS IC-Fx061 Option Board UT-126H *NXDN radio*	Rev.5.4 - Checksum: $BC4F Rev.3.2 – Checksum: $F961	Advanced Interface Option (North American) or Advanced Interface Option (Export)
iDEN Not Tested this Release	Motorola i355 Motorola i365 *iDEN radio* Not Tested this Release	NA NA Not Tested this Release	Advanced Interface Option (North American) or Advanced Interface Option (Export) Not Tested this Release
Kenwood 5x10	Kenwood TK-5x10 Ver. 2.0 Kenwood TK-5x10 Ver. 2.0 - DOS Kenwood TK-5x10 Ver. 3.0 Kenwood TK-5x10 Ver. 3.0 - DOS *P25 radio*	F4.41 – Checksum FBF1 F4.41 – Checksum E346 G6.10 – Checksum 0ADA G6.01 – Checksum 9780	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Kenwood NEXEDGE	Kenwood NX-x00 *NXDN radio*	5.11 – Checksum 1A3E	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Kenwood NX-5x00	Kenwood NX-5x00 *DMR radio* *NXDN radio* *P25 radio*	2.31.00 – Checksum 74AE	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Kenwood x150	Kenwood TK-x150 *Conventional Analog radio*	1.07 – Checksum E282	No Access Key Required
Kenwood x180	Kenwood TK-x180 *Conventional Analog radio*	1.22 – Checksum 035C	No Access Key Required
Kenwood x80	Kenwood TK-x80 Ver. 2.0 *Conventional Analog radio*	.028 – Checksum 0ADE	No Access Key Required
Kenwood x90	Kenwood TK-x90 *Conventional Analog radio*	2.30 – Checksum 77F4	No Access Key Required

Serial Type	Device	Tested Device Firmware	IP-224 Additional Features Access Key
MOTOTRBO Interface	Motorola XPR4550 Option Board Version (XPR4550) Motorola XPR5350 Motorola XPR5550 Option Board Version (XPR5550) *DMR radio*	01.12.17 01.07.44 02.06.05 02.06.05 02.06.03	Advanced Interface Option (North American) ONLY Serial Type MOTOTRBO Interface Available on 1 Line Only per unit
MTRBi	MTRBi Motorola XPR4550 Option Board Version (XPR4550) Motorola XPR5350 Motorola XPR5550 Option Board Version (XPR5550) *DMR radio*	MTRBi version 1.200 01.12.17 01.07.44 02.06.05 02.06.05 02.06.03	No Access Key Required
PowerTrunk	PowerTrunk MDT-400 *TETRA radio*	27.00.01	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Sepura	Sepura SRM2000 Sepura SRG3500 *TETRA radio*	V8.3-002 V9.0-006	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Serial Over IP	NA	NA	No Access Key Required
Sprint Direct Connect Not Tested this Release	AdvanceTec AdvanceBridge Qualcomm *Remote Cellular Modem* Not Tested this Release	V0004 V1.306 Not Tested this Release	Advanced Interface Option (North American) or Advanced Interface Option (Export) Not Tested this Release
Tait TM91xx/TM94xx	Tait TM9100 Tait TM9400 *P25 radio*	8.03.03 2.07.00	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Tait TM93xx	Tait TM9300 *DMR radio* *(Only Tier II is supported)*	2.12.03	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Telex Generic	BK Technologies KNG Series *P25 radio*	5.5.13	No Access Key Required

Compatibility

C-Soft Application
- Version 7.200+ - Necessary for Radio Check.
- Version 6.501+ - Necessary for MDC Call Alert Acknowledgement feature.
- Version 6.500+ - Necessary for all other features.

Telex System Manager
- Version 2.300+ - Necessary for programming parameters.
- Version 2.100+ - Necessary for firmware upgrades.

Installation and Upgrade

Please use Telex System Manager 2.100 or newer to upgrade the firmware. Please refer to the IP-224 manual for information on how to upgrade the new firmware.