



# **TELEX**

*Radio Dispatch*

## **Radio Dispatch Engineering Group**

### **C-Soft Version 7.100 Engineering Release Notes**

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### 1. Revision History

Revision	Date	Author	Description
A	08/07/2009	Radio Dispatch Engineering Group	Initial draft C-Soft Version 4.200
B	09/11/2009	Radio Dispatch Engineering Group	Updated to C-Soft Version 4.300
C	03/31/2010	Radio Dispatch Engineering Group	Updated to C-Soft Version 5.000
D	06/24/2010	Radio Dispatch Engineering Group	Updated to C-Soft Version 5.100
E	07/16/2010	Radio Dispatch Engineering Group	Updated to C-Soft Version 5.200
F	10/22/2010	Radio Dispatch Engineering Group	Updated to C-Soft Version 5.300
G	05/26/2011	Radio Dispatch Engineering Group	Updated to C-Soft Version 5.400
08	06/08/2012	Radio Dispatch Engineering Group	Updated to C-Soft Version 6.000
09	07/26/2012	Radio Dispatch Engineering Group	Updated to C-Soft Version 6.100
10	12/06/2012	Radio Dispatch Engineering Group	Updated to C-Soft Version 6.200
11	08/20/2014	Radio Dispatch Engineering Group	Updated to C-Soft Version 6.500
12	02/20/2015	Radio Dispatch Engineering Group	Updated to C-Soft Version 7.000
13	05/02/2016	Radio Dispatch Engineering Group	Updated to C-Soft Version 7.100

### 2. Overview

This is the release notes for C-Soft Version 7.100 firmware/software. This release contains new features, improved features, and fixed issues. The release notes include all of the changes and fixes since official release Version 7.000.

### 3. New Features

#### Version 7.100

- C-Soft Designer
  - **Kenwood NEXEDGE Conventional Direct IP Interface** – Added new settings for the configuration of the Kenwood NEXEDGE Conventional Direct IP interface. Settings are located at Edit->Setup NEXEDGE -> Global IP Conventional.
  - **Encryption for Kenwood NEXEDGE Direct IP Interfaces** – Added new settings for the configuration of encryption key data for the Trunking and Conventional Kenwood NEXEDGE Direct IP interfaces. Settings are located at Edit->Setup NEXEDGE -> Global Encryption Key Data
  - New UI Controls
    - **Scrambler/Encrypt Key Select**
      - New button which allows users to select which encryption key is used to encrypt transmit traffic from the console. This button only works on the NEXEDGE line type.
    - **Status Stack Programmed**
      - Programmed status stacks are used to execute a pre-defined status stack in C-Soft Runtime. This feature is only supported on FleetSync and NEXEDGE Direct IP lines.

- **Status Stack Window**
  - The Status stack window allow users to select multiple statuses and send them together. This feature is only supported on FleetSync and NEXEDGE Direct IP lines.
- C-Soft Runtime
  - **Kenwood NEXEDGE Conventional Direct IP Interface**
    - Added support for Kenwood NEXEDGE Conventional Direct IP interface. C-Soft connects directly with a NEXEDGE conventional repeater via an IP interface and uses the AMBE+2 vocoder. For more information on individual features and how to setup and use the NEXEDGE Conventional Direct IP interface in C-Soft, refer to *Appendix F* in the C-Soft User Manual.
  - **Encryption for Kenwood NEXEDGE Direct IP Interfaces**
    - Added support for encryption and decryption of the Conventional and Trunking Kenwood NEXEDGE Direct IP interfaces. For more information on individual features and how to setup and use the NEXEDGE Conventional Direct IP interface in C-Soft, refer to *Appendix F* in the C-Soft User Manual.

#### 4. Improved Features and Fixed Issues

##### Version 7.100

- C-Soft Designer
  - **Active Emergency Window**
    - Added “Automatically populate keypad on acknowledgement” option. When checked, acknowledging an emergency automatically sets the keypad’s target destination to the acknowledged unit ID. The acknowledged unit ID is added to the keypad only if the system type of the currently selected line matches the system type of the line receiving the emergency.
  - **Call Queue Window**
    - Added Group Statuses option to list of events which will add an entry to the Call Queue window.
  - **Design Error Window**
    - Corrected several false positive port conflicts pertaining to P25-DFS1 setup.
  - **File Information Window**
    - File Information window now opens when pressing its shortcut key (Control + I).
    - Removed the SIP-4 license which has been obsolete since v7.000. The window now displays SIP-6 as the smallest SIP license offered.
  - **General**
    - Application would crash when opening a .veg file last saved in a newer version of Designer. An error message is now displayed informing the user of a version incompatibility between the .veg file and the application.
    - Fixed improper GUI element selection behavior encountered when creating a new UI element.

- **Global Parameters - Appearance**
  - In Global Parameter Setup->Appearance, added “Keep information windows as top layer” checkbox. When checked, C-Soft information windows will always be displayed above C-Soft Popup windows or any other application running on the PC. If the option is unchecked, C-Soft information windows will be covered by the active Popup window or application once that window is activated. The C-Soft information windows affected by this option are:
    - Active Emergency Window
    - Call List Window
    - Call Queue Window
    - Emergency History Window
    - Event Logger Window
    - FleetSync Window
    - Global Call History
    - HB4 Global Parameters Setup Window
    - HB4 Volume Window
    - HB4 Speaker Select Window
    - HB4 IRR Speaker Select Window
    - License Dialog
    - Manual Call List Window
    - Manual Page Entry
    - MDC-1200 Window
    - MOTOTRBO Window
    - P25-DFSI Window
    - Per Line Call History Window
    - SIP Call Window
    - Status List Window
    - Supervisor
    - Web Page Popup
  
- **Keypad Control**
  - In Keypad’s Contact Tab UI setup, added “Display” option to specify how a contact is displayed. Available options are “Alias” where only the Contact’s alias is displayed or “Alias+ID” where the Contact’s Alias and ID are displayed.
  
- **Paging**
  - The tone level fields in the Page Manual Entry options window now properly accept negative values. In C-Soft v7.000, these fields would only accept values greater or equal to zero.
  
- **Per Line Setup**
  - In Per-Line Setup -> MOTOTRBO Signaling Setup tab, added group box around MTRBi and MOTOTRBO Interface radio buttons.
  - Per-Line Setup -> AutoFill now sets the default System List settings. Previous this field was not being set and caused Runtime to crash when running the .veg file.
  
- **Popup Button**
  - Added option to highlight a Popup button when the Popup Window has active focus. Also added option to select the focus color.

- Added Close Using option in Global Parameters -> Appearance where the user can select the mechanism used to close an option Popup window. Available Options are:
  - *“X” Button* – button located in the upper right of the window
  - *Done Button* – button located in the lower right of the window
  - *Toggle Button Only* – window can only be closed by clicking on the popup button.
  
- **SIP Call Control**
  - Added Window Size setting to specify size of SIP Window. Available options are “Normal” or “Large”. The “Large” setting is better suited for touchscreen operation.
  
- **UI Fixes**
  - Resizing the Designer window now properly re-scales all UI elements to the current window size.
  - Fixed an issue in which the Text Message Control was being unintentionally copied, which caused the Text Message Control to be non-selectable and led to a potential crash.
  - Radio Status button now displays as a regular button when only one status is specified in its selected status list. Previously, under certain circumstances, the Radio Status button was incorrectly displayed as a split button.
  - Fixed a rare issue when setting a UI element’s associated line to a line that has a duplicate line name.
  - Remote Monitor button now allows “Use Supervisor Password” setting.
  
- **C-Soft Runtime**
  - **Audio**
    - The destination speaker number and audio routing will now update correctly when the Select state of a line is changed via a crosspatch initiated on a parallel console. Previously, if a line was selected and a parallel console initiated a crosspatch was initiated on that line, the Select button would change to the Unselect state, but the audio would still be routed to the Select speaker.
    - C-Soft no longer crashes on program shutdown after transmitting on a line configured to use the G.711 64K vocoder.
  
  - **EF Johnson**
    - Regular EF Johnson radio calls will no longer be incorrectly labeled as Select Calls.
    - When using in IP-224, emergency notifications generate by an EF Johnson mobile radio will now properly open the Active Emergency window.
  
  - **Emergency**
    - Console will now only activate emergency tones and blink Select button if the .veg file contains an Active Emergency or Emergency ACK button. Previously, the emergency tones and button blinking were activated but could not be cleared.
    - P25-DFSI, MTRBi, MOTOTRBO USB, and NEXEDGE IP emergencies now properly activate relays configured for “Activate Relay on Emergency Call”.
    - C-Soft now properly clears an emergency upon receipt of an Emergency Acknowledgement message generated by a Telex Radio Dispatch hardware console.

- **General**
  - Fixed issue where under certain circumstances the Runtime user interface would stop updating the visual UI controls in the window, but still process user inputs (i.e. button clicks, slider movements, etc.). This issue was caused by C-Soft Runtime reaching the limit in Windows for the maximum number of Graphics Device Interface (GDI) handles per application. This behavior generally appeared after C-Soft Runtime had been running for several weeks under the following conditions:
    - The .veg file contained a Keypad control
    - The scan list feature was being used on lines associated with a Frequency Control UI element.
  - Fixed issue where random text was being displayed on the Select button whenever a radio enable or radio disable command was sent from a parallel console.
- **Google Earth**
  - Removed Google Earth GPS support from the MOTOTRBO Window due to Google no longer supporting the API. GPS data visualization is still available utilizing the Network Link feature in Google Earth.
- **Instant Recall Recording**
  - In Call History windows, added “Previous” and “Next” buttons to select audio playback of the next or previous calls in the call list.
  - Resolved issue in which Instant Recall Recorder audio files were not being recorded for emergency call events.
  - Audio no longer glitches when the console is simultaneously playing recorded audio from the Call History windows and receiving audio from an incoming call.
  - The storage of playback audio was corrected for P25-DFSI Analog calls so the playback audio sounds normal. Previously, the audio was being stored and played at half speed.
  - Incoming receive audio is no longer muted while IRR or call playback is being played. The receive audio and IRR audio streams are now summed together so both audio sources can be heard.
  - IRR and Playback audio no longer mutes audio on the IP Recording streams. Previously, the IP Recording packets would not contain any audio data if IRR or call playback audio was being played at the same time audio was being received.
  - Call history entries containing audio exceeding the duration limit are now updated to display call durations of “0”. Previously, the call duration was not reset, and was incorrectly being counted against the duration limit.
- **IP Recording**
  - IP Recording packets now use a frequency value of ‘1’ instead of ‘0’. A frequency value of ‘0’ was causing IP-224s to ignore the incoming packets.
- **Licensing**
  - Upon loss of connection to a remote Telex License Server, Telex License Server now reclaims the license after 90 seconds, making it available for checkout. Previously, the license would not be available for 2 hours.
- **MOTOTRBO**
  - Text messages received on a MOTOTRBO Interface line (USB Interface on IP-224) are now properly displayed in the MOTOTRBO Window. Starting in v7.000, there

were cases where only the first few characters of a received text message would be displayed in the window.

- **NENA**
  - ADHB-4 NENA icon now accurately displays the actual NENA state. Previously, various USB errors would result in incorrect icon states.
  - Fixed an issue which would cause NENA audio to be sent out on radio lines during PTT operation. Due to ADHB-4 circuitry, it is still recommended to keep NENA gain below 0 db.
  - All NEXEDGE audio was being blocked if a NENA line was active and the ADHB-4 become disconnected from the PC.
- **NEXEDGE**
  - Annunciations can now be sent on a NEXEDGE line using the “Send on Selected Lines” option.
- **P25-DFSI**
  - Swapped the send\_To and receive\_From port values when console receives the connect response message from DFSI repeater. This fix resolves the DFSI connection issue for the Data Link Controller product from Codan.
- **Paging**
  - Per-Line VU Meter now properly updates when transmitting stacked pages configured with talk time.
  - Per-Line VU Meter now properly updates when utilizing Rx Block Delay.
  - The microphone is now properly muted while transmitting on a page when using Windows 7, 8, 8.1, or 10.
  - Fixed issue where clicking the Page Send button without any Page buttons selected caused C-Soft to crash. C-Soft now displays the message “ERROR: No pages selected!” in the console status bar and plays an error tone in the select speaker.
- **Popup Window**
  - Popup windows can now be closed by clicking the popup window button.
- **Scan**
  - C-Soft now correctly shows RX icon upon receiving audio from scanning radio. This issue was observed while using EFJ RS-5300 and Hytera MD782 radios and was caused by a timing issue between the frequency update packet and the audio stream.
- **SIP**
  - Added support for a larger, touchscreen-friendly SIP window.
  - If the “Auto Hold Phone Line on PTT” setting is enabled, incoming SIP audio is muted while transmitting on a radio line. Previously, the audio was routed to the unselect speaker.
  - Upon answering an incoming call, an established SIP call on a temporary line is now placed on hold. Previously, all call audio was being dropped.
  - When only a SIP temporary line is active, the ADHB-4’s microphone now continues to transmit. Previously, outgoing audio would stop.



- SIP Consultant transfer to a call parking line now works correctly. This fix may apply to other Consultant Transfer issues.
  - In a design containing DTMF keys, keyboard keypad presses now properly generate tones during SIP calls. Also corrected undesirable focus behavior in the SIP window.
  - Upon taking NENA off hook or off hold, any active SIP calls are now placed on hold. In addition, while NENA is active, SIP calls cannot be taken off of hold. Previously, the SIP calls would remain active, but connected parties had no indication they had been put on hold.
  - Upon editing a SIP contact's number in the SIP Call Window's contact list, the updated number is now immediately displayed on the Call Page display.
  - Added message box notifications of SIP Contact CSV file import/export operations to indicate success or failure.
  - SIP calls to another C-Soft console no longer open a "Local Preview" video screen that flashes random colors, which may also cause C-Soft to crash or display various error messages.
  - Added Subdirectory Selector control to SIP Call window. Subdirectory Selector control allows the Contact list to be divided into smaller directories. Updated sip\_directory CSV file to load/store and import/export functions to utilize new subdirectory information.
- **UI Fixes**
    - In the ADHB-4 Global Line/Speaker list, double clicking a speaker now opens the Unselect Speaker window at the mouse location. Previously, the Unselect Speaker window always displayed in the top left corner of the console window.
    - The keypad's alternating background color setting now functions correctly.
    - While keypad's search/input text box has focus, keyboard navigational keys now have improved behavior with the contact list.
    - Fixed an issue that, upon removing certain UI elements in the design, caused the cposi.txt file to be incorrectly loaded, which led to a potential crash.
    - Group PTT buttons now correctly use the button's selected Drop Down Direction setting.
    - Radio Status buttons configured with only one selected status entry now functions properly. Previously, pressing the button would display an error message and not send the configured status.
    - Fixed crash condition caused by right clicking on a Text Message control with no text messages present.

## 5. Known Issues

### Version 7.100

- Sending Call Alerts using MDC-1200 signaling will generate a "No Response" entry in the Call History windows and in the MDC-1200 window if using an IP-223 or a version of IP-224 firmware prior to v2.000.
- C-Soft can only receive a text message from a MOTOTRBO radio using the MTRBi Interface when a text message is sent from C-Soft and the remote radio is replying to that text message.
- If multiple emergencies are active on a single MOTOTRBO line, acknowledging one of the emergencies will incorrectly stop the emergency indication actions (i.e. Select button blinking) on parallel consoles.

### 6. Compatibility

#### Version 7.100

- Compatible with ADHB-4 Version 3.000
- Compatible with IP-224 Version 2.100.
- Compatible with Telex License Server 1.100.
- **Not compatible** with the Sentinel/SafeNet/Rainbow keys (USB or Serial). A Flexera Entitlement Certificate (software license) is now required for C-Soft Runtime operation. Please contact Telex Technical Support to acquire Entitlement Certificates.

### 7. Installation and Upgrade

#### Version 7.100

- To install C-Soft on Windows 7, Windows 8, and Windows 10:
  - Double click on the C-Soft\_7\_xxbit setup executable.
    - Select the 32-bit executable if running a 32-bit version of Windows, Windows 8, or Windows 10.
    - Select the 64-bit executable if running a 64-bit version of Windows 7, Windows 8, or Windows 10.
  - Follow the steps provided on the screen to install C-Soft.
  - During the C-Soft installation, the user will be prompted to install updated drivers for the ADHB-4. Follow the instructions on the screen to complete ADHB-4 Driver Installation. If up-to-date ADHB-4 Drivers have already been installed, this step can be skipped.
  - During the C-Soft installation, the user will be prompted to install Telex License Server, which is required for obtaining and maintaining licenses for C-Soft.
    - The Telex License Server Installer may also install the prerequisite Microsoft Visual C++ 2012 Redistributable package if necessary. If Microsoft Visual C++ 2012 Redistributable is already present, this step can be skipped.
  - As necessary, contact Telex Technical Support to acquire license Entitlement Certificates. Consult the C-Soft manual's appendix titled Telex License Activation Tool for more information on licensing requirements, activation processes, and architecture.
- To upgrade C-Soft:
  - Uninstall any previous of C-Soft using the Windows Uninstall Program feature under Control Panel
  - Locate the appropriate version of C-Soft installation package to install C-Soft