Radio Dispatch Engineering Group

C-Soft Version 7.400
Engineering Release Notes

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F01U200805 – Rev 16   September 28, 2018

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1. Revision History

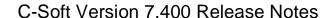| Revision	Date	Author	Description
A	08/07/2009	Radio Dispatch Engineering Group	Initial draft C-Soft Version 4.200
B	09/11/2009	Radio Dispatch Engineering Group	Updated to C-Soft Version 4.300
C	03/31/2010	Radio Dispatch Engineering Group	Updated to C-Soft Version 5.000
D	06/24/2010	Radio Dispatch Engineering 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
14	05/26/2017	Radio Dispatch Engineering Group	Updated to C-Soft Version 7.200
15	11/17/2017	Radio Dispatch Engineering Group	Updated to C-Soft Version 7.300
16	09/28/2018	Radio Dispatch Engineering Group	Updated to C-Soft Version 7.400

2. Overview

This is the release notes for C-Soft Version 7.400 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 7.300.

3. New Features

Version 7.400
- o C-Soft Designer
  - Added support for "Telex Enhanced ANI"
    - In Per Line Parameters, added signaling type "Telex Enhanced ANI"
      - o Added Telex Enhanced ANI Tab Page setting "Enable Callback ". If checked, Keypad/PTT button is automatically populated with last-used/received Group or Private call information.
      - o "Telex Enhanced ANI" allows for 32-character length for Groups and Users.
  - SIP Phone Speed Dial and Presence
    - Added a "Speed Dial" page containing space for twelve Speed Dial entries and checkboxes to enable Presence subscriptions for each entry. See the SIP Presence Section below for more information.

- o C-Soft Runtime
  - SIP Window
    - If at least one Speed Dial Entry is defined, the Call Page displays an additional tab to access Speed Dial numbers.
  - SIP Window Speed Dial / Autodial Button:
    - Pressing a Speed Dial or Autodial button has a different operation based on the SIP line's current call state:
      - o If not currently in a call, pressing the button will call the specified number.

- o If already in a call with the specified number, the call is hung up.
- o If already in a call but not with the specified number, the current call is forwarded to the specified number.
  - ▪ SIP Presence
    - • If a Speed Dial Entry's "Presence" checkbox is checked, C-Soft will attempt to subscribe to Presence event notifications for that extension, and the Speed Dial button will change color based on the extension's presence state. Additionally, any Autodial buttons associated with the matching extension number will also change color. The Presence states and colors are as follows:

Presence State	Color
Available (not in a call)	Green
Unavailable (in a call)	Red
Incoming Ring	Yellow
Outgoing Ring	Blue
No Presence Information	Grey / Unchanged

4. Improved Features and Fixed Issues

Version 7.400
- • C-Soft Designer
  - • ADHB-4 Mic Control Button
    - ▪ Added an option to display the Mic Control button as a Split Button, allowing selection from a configurable list of options. This feature allows for easier switching between three or more microphone sources.

  - • Autodial Button
    - ▪ Added "Global Radio Button" checkbox. If checked, the Autodial button's behavior matches its existing behavior. If unchecked, an Autodial button can now be associated with a SIP Line, and functions similarly to a Speed Dial button. The Autodial button will display connection state icons (i.e. Ring, Call) while in a call with the configured number, as well as display Presence state colors. The setting is checked by default.
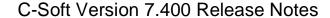
  - • General
    - ▪ Fixed issue which caused C-Soft Designer crash if the example button was clicked in the UI Elements Colors tab for a Split button control (i.e. Private PTT, Group PTT, Status button, etc.).

  - • Mute – Per Line Button
    - ▪ Increased the maximum allowed value for a timed mute from 180 seconds to 1800 seconds.

  - • NEXEDGE
    - ▪ C-Soft now allows a Talk Group number of 65535 (NXDN ALL Call) in the Per Line Parameters Signaling Setup configuration window.
    - ▪ Echo packet feature is now correctly disabled for NEXEDGE lines in the Per Line Parameters window.

- Pop-up Button
  - Pop-up button "Active" default icon can now be customized by placing "activity.bmp" into the C-Soft Runtime executable directory.

- SIP Call Control Button
  - Added "Allow Do Not Disturb" option that, if checked, allows the user to activate the Do Not Disturb feature. The setting is checked by default.
  - Added "Filter + Contact List Font" setting to set the appearance of the Subdirectory Filter and Contact List text.

- C-Soft Runtime
  - ADHB-4
    - Placing NENA on hold now correctly switches NENA audio to the unselect speaker. Previously, the unselect speaker would output static.
    - When a SIP Call is on hold, selected line audio is now routed to Speaker 1 / Headset.
    - While NENA is off hook and C-Soft is transmitting on a selected line, select audio is now mixed into Speaker 1 / Headset. This is useful for hearing go-ahead beeps in the headset.
    - When a SIP Call is active and C-Soft is transmitting on a selected line, select audio is now mixed into Speaker 1 / Headset.
    - When using a DFSI or Mototrbo window without a select button, the button's ADHB-4 speaker icons now updated correctly when edited through the ADHB-4 Global window.

  - Annunciation
    - C-Soft no longer sends a Fleetsync Select Call wen sending an annunciation on a specific frequency.

  - Keypad
    - Made various improvements to the keypad related to selection and backspace/delete keys.
    - Added setting to Global Setup – IRR Page "Populate Keypad on Selection". If checked, selecting an entry in a Call History window will populate the keypad entry field.

  - MDC-1200
    - Incoming calls using MDC-1200 signaling are now correctly logged to the MDC-1200 Window's call history.
    - C-Soft will now properly process Emergency Acknowledgement messages from parallel consoles when the emergency was generated from a radio with a Unit ID with leading zero (i.e. 0001, 0201, etc).

  - Miscellaneous
    - The InPTT button no longer sticks in the transmit state if the mouse is released outside the boundary of the InPTT button. In this scenario, the console would stop sending audio packets, but the InPTT button would be stuck in the transmit state until the button was clicked again.

- - C-Soft will now log any ANI received while in a single call. The call's audio is attributed to the originator / first ANI received.
    - When using the Fleetsync window, selecting an entry from its History list will now correctly the call's User ID information to the Selected Items tab.
    - Fixed G.726 16K and G.726 32K Vocoders to comply with standard. There was a small math error resulting in invalid test results. The bugfix resulted in no audible difference.

  - NEXEDGE
    - Global Setup -> Hide Group ID ANI now applies to NEXEDGE lines.

  - Paging
    - The Paging status icons are once again being displayed on the Manual and Page Stack Programmed buttons. This feature was broken in C-Soft v7.300.
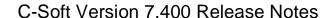
  - Relay Control
    - Phone Line Trigger settings
      - The Activate Relay on Phone Ring checkbox now applies to SIP lines. When checked, the Activate Relay on Phone Ring will activate the configured relay when a POTS or SIP Phone line is ringing.
      - Added the Activate Relay in Call checkbox to the Relay Control Setup window.
        - When checked, the Activate Relay in Call checkbox will activate the configured relay whenever a POTS or SIP Phone line is taken off-hook or a call is active. The configured relay will be deactivated when the phone line is placed back on-hook, or the call ended.
      - Changed the operation of the Activate Relay on PTT feature.
        - Previously, this option would activate the relay while PTTing as well as when a phone line was off-hook. Now, the setting will only trigger relays when PTTing. The new setting "Activate Relay in Call" addresses activating a relay while in a call.
    - Fixed issue which caused relay control buttons configured to activate on PTT operations to not properly deactivate on PTT release while the console had an active call on a SIP Phone line.
    - Upon receiving a Status or Text message to deactivate a relay, C-Soft now only deactivates the relay if all other configured triggers (i.e. PTT, Phone Ring, Call Active, and Emergency) are not active.
    - Fixed various rare cases in which relays with multiple active trigger conditions would incorrectly deactivate.

  - SIP
    - C-Soft no longer crashes when receiving an incoming call using an extension in a hunt group. Issue encountered using a Cisco SIP Server.
    - C-Soft no longer crashes when C-Soft transfers a call whose source identifier contains specific character sequences (format codes). Issue encountered with an Avaya SIP server.

- Telex License Server
  - In Telex License Activation Tool, removed email field to comply with GDPR regulations.

- In installer, changed a hard-coded "C:" to dynamic path that caused a failed service installation when Windows OS not installed on "C:".

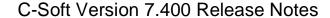- C-Soft API
  - Optimized memory usage.

5. Known Issues
Version 7.400
- API
  - Page Queuing will not respect talk time of page that is currently being sent. If using talk time do not send a page during its execution. Wait until the current page is finished (including talk time).
  - Stacked pages can only be sent on a single frequency. If multiple frequencies are stacked together C-Soft will send all pages on the first pages frequency.

- DMR
  - Radio Disable on a Tait Tier III trunking system responds with a "404 Not Found", but the target device is still successfully disabled.
  - Node failover is not supported for Tait Tier III trunking system.
  - GPS Trigger On/Off is not supported on Hytera Conventional.

- Per-Line Recording on a SIP line will not record all participants during Consultant Transfers, Three-Way Calls, or Line Conferences.

- NEXEDGE Direct IP – Trunking: C-Soft Runtime will not operate on Kenwood's NEXEDGE Generation 2 server. Kenwood has released the new firmware to address this issue but no validation from customer if the issue has been resolved.

- NEXEDGE Direct IP – Conventional: For Kenwood NXR-x10-K2 Firmware Version 3.13.00, RAN Encode values 10 – 63 will currently not work on the IP connection between C-Soft Console and Kenwood Conventional system. Only RAN values of 0-9 will work. Kenwood has been informed of the issue and we are awaiting a resolution.

- 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.

- When using the MTRBi interface, C-Soft can only receive a text message from a MOTOTRBO radio 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.

- Telex Enhanced ANI Callback
  - When using InPTT and MainPTT with callback support, the Main PTT and InPTT will PTT the callback ID even when a new ID is selected or inputted in the keypad. Use the group PTT and private PTT to call the newly selected/inputted ID.

6. Compatibility
Version 7.400
- Compatible with ADHB-4 Version 3.100.
- Compatible with IP-224 Version 2.400.
- Compatible with Telex License Server 1.300.
- **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 7.400
- To install C-Soft on Windows 7, Windows 8, and Windows 10:
    - Double click on the C-Soft_Setup_vXXXX setup executable.
    - 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