



Radio Dispatch Engineering Group

C-Soft Version 8.500 Engineering Release Notes

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Revision F

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1. Overview

This is the release notes for C-Soft Version 8.500 firmware/software. This release contains new features, improved features, and fixed issues. All Features and Fixes from 8.000 to 8.500 are included.

2. Important

- **A C-Soft 8 license or C-Soft 8 upgrade license is required for any C-Soft Runtime v8.0 and higher operation. Please contact Telex Dispatch sales team to acquire C-Soft 8 Entitlement Certificates.**
- **After IP-3000 series console has been upgraded to version 8.200 or newer, the firmware cannot be reverted to any previous version. Any attempt to downgrade the firmware version via TSM will be refused.**

3. New Features

Version 8.500

- Finished adding P25 CSSI in C-Soft that allows connection to a CMS (Server). See Beta Version 8.237 below.

Version 8.239 thru 8.499

- No beta versions released.

Version 8.238

- Added support for encoding the NEXEDGE OTA alias. When transmitting on a NEXEDGE IP interface line, C-Soft will use the Console Name field from the Console Configuration Tool as the alias.

Version 8.237

- CSSI is now provided as a service or gateway on CMS. Client CSSI Consoles can connect to CMS via a Telex line type. Allowing only one connection to the CSSI P25 Trunking system.

Version 8.205 thru 8.236

- No beta versions released.

Version 8.204

- N/A

Version 8.203

- N/A

Version 8.202

- Designer
 - Upon opening or setting Design Target to IP-300X or IP-3018, the Designer window will resize to match the destination device's resolution to provide a more accurate estimation of UI sizes when running on the physical device. Previously, this was only done when setting a Design Target to IP-300X.

Version 8.201

- Designer
 - Popup

- In UI (Popup) -> Popup Window Setup, added setting “Restore to original position on open”, available only when window option “Allow window to be moved” is checked. When “Restore to original position on open” is checked, every time the popup is opened in Runtime, its position is restored to the window’s position as set in Designer.
- Global Audio Setting: Marker Tone
 - In Global Parameter Setup -> Audio -> Audio Muting and Routing, added “Stop Marker Tone on RX”. When checked (default), C-Soft will stop marker tone transmissions upon receiving any incoming audio.

Version 8.200

- C-Soft Runtime
 - Increased supported maximum line count from 200 to 300. This does not mean that C-Soft can actively receive on all 300 lines concurrently but can selectively receive on a subset of them. The increased configurable line count is intended for use with new ‘Link popup state to line Active state’ feature described below.
- C-Soft Designer
 - UI / Behavior
 - Popup buttons
 - Added option “Link popup state to line active state’. When checked, the Telex line associated with any Select button contained within the popup is only unmuted while the popup is open.
 - If a line’s select button is contained within a popup with “Link popup state to line active state”, certain buttons / operations will open the popup. This includes:
 - TX All button
 - Group Programmed
 - Group Programmed Enhanced
 - Page with nonzero talk time
 - Page Manual Entry with nonzero talk time
 - Page Stack Programmed containing page with nonzero talk time
 - Annunciation with “Stay Selected After Annunciation” checked
 - Added “\$FREQ\$” text macro, available for UI buttons that can be associated to a line.
 - Added “\$LINEX\$” text macro (where X is a line number), available for all buttons and popup buttons.

Versions 8.108 thru 8.199

- No beta versions released.

Version 8.107

- NA

Version 8.106

- NA

Version 8.105

- Added user defined TTL for Backup Server Multicast address. Previously backup TTL was fixed at 1. Now adjustable from 1 to 255.

Version 8.104

- NA

Version 8.103

- NA

Version 8.102

- Runtime
 - Added "Always On EXCEPT Phone Active" option ADHB-4 Global Window. When Phone of hook, this option will allow the audio from phone to play on headset only and not play on select speaker.

Version 8.101

- NA

Version 8.100

- N/A

Version 8.000

- C-Soft Designer
 - Console Management System (CMS) Integration
 - Contact Management
 - Added ability to automatically synchronize User, Group, SIP Contact, and SIP Directory data from CMS's Contact Manager. When enabled and connected, C-Soft will automatically apply any contact updates made on the CMS Contact Management page.
 - Feature is enabled by checking the "Enable Alias Updates from CMS" checkbox in Edit -> Setup External Systems -> Console Management System.
 - Design Management
 - Added ability to retrieve and launch designs from CMS's Design Management service. User account creation, design file storage, and design file assignment operation all are performed on the CMS's Design Management webpage.
 - Feature is position-based setting and is enabled in either Telex System Manager for both C-Soft positions and IP-30XX devices or in Console Configuration Tool for C-Soft positions.
 - SRTP / CryptoSync
 - Added ability for C-Soft to encrypt and decrypt Telex audio using the SRTP audio encryption standard. SRTP keys are synchronized utilizing CMS's CryptoSync service.
 - The CryptoSync Authorization token in C-Soft Designer is configured in Edit -> Setup External Systems -> Console Management System dialog. The entered authorization token must match the Authorization token created on the CMS webpage and located under CryptoSync -> Settings.
 - Feature is a per line setting and is enabled by checking the SRTP checkbox in Edit -> Per Line Parameters -> (Telex Line) -> Options. This feature is only supported on Telex line types.
 - MQTT Device support

- Added ability for C-Soft to control MQTT relay devices and receive MQTT input state changes through CMS and an MQTT broker.
 - MQTT device addressing (Broker IP, device MAC, and device input port) is available the Relay Control Button -> Relay Control Setup tab and Input Indication Button -> Input Indication tab.
 - Log Out button
 - Allows dispatchers to log out of the current C-Soft Runtime session and causes C-Soft Runtime to close and restart with the Console Sign In window.
 - P25
 - Added P25 Encryption Key Fill Device Serial Port option “Automatic”.
 - When set to Automatic and a USB serial port device is attached, C-Soft will automatically scan for serial devices and attempt to communicate to any newly-attached key fill devices. This new setting is targeted toward IP-30XX devices that require a USB-to-serial adapter to load keys and has limited access to the KFD serial port setting.
 - Phone Audio
 - The existing Phone “Auto Hold Phone Line on PTT” setting located at Edit -> Setup Global Parameters -> Peripherals -> Phone was split between Rx and Tx settings.
 - **Mute Phone Mic:** While in a phone call and a dispatcher transmits on a Telex line, the outgoing console microphone audio is muted on the phone line if “Mute Phone Mic” setting is checked. If unchecked, the outgoing console microphone audio is sent to both the radio and phone lines.
 - **Phone Rx Route:** While in a phone call and a dispatcher transmits on a Telex line, the incoming phone audio is sent to the selected destination. Phone Rx Route options are Mute, Speaker 1, or Speaker 2. The Phone Rx Route setting is enabled only available if the “Mute Phone Mic” setting is checked.
 - When upgrading a design, the following mapping from old setting to new setting is applied, which matches existing behavior:
- | Auto Hold Phone Line on PTT | Mute Phone Mic | Phone Rx Route |
|-----------------------------|----------------|----------------|
| unchecked | unchecked | Speaker 1 |
| checked | checked | Mute |
- This setting split was made to accommodate the situation in which phone mic muting during PTT is desired, but the dispatcher still wants to hear incoming phone audio.
 - C-Soft Runtime
 - Console Management System (CMS) Integration
 - Console Sign In
 - When the Design Management feature is enabled on the position, C-Soft Runtime will connect to CMS to load the design file(s) assigned to the user.
 - If multiple design files are assigned to the user, a design selection window allows the user to select the specific design to be used.

- Sign In window mode is configurable by system administrator
 - User Name and Password
 - User enters name and password via a keyboard. Intended for C-Soft Desktop PC applications.
 - Select User and Enter PIN
 - User selects name from list and enters PIN using either a software based key panel or from the IP-3000 series handset dial pad keys. Intended for touch screen and IP-3000 series device applications
 - Use default User Name and Password
 - Devices connects to CMS using login credentials configured by system administrator on the device. Intended for applications where the design file is shared between individual users.
 - For more information on Console Sign In, see Appendix L in the C-Soft v8.000 Technical Manual.
- Contact Management
 - If enabled, the User, Group, SIP Contact, and SIP Directory data will update in C-Soft Runtime as changes are made on the CMS Contact Management webpage. The updated contact information is saved to the design file when C-Soft Runtime is closed.
- Connection Indicator in Status bar
 - Added CMS Connection status to C-Soft Status bar. If all configured services are all connected, a green check mark will be displayed. If some services are not connected a yellow warning will appear. If no connection could be made to CMS or local CAS service, a red warning symbol will be displayed.
 - The connection state of each service can be viewed by left clicking on the Connection icon, or right clicking and selecting Connection Status.
 - The current alias table versions can be viewed by right clicking on the Connection icon and selecting Alias Versions.
- SRTP / CryptoSync
 - Added ability for C-Soft to encrypt and decrypt Telex audio using the SRTP audio encryption standard.
- Console Configuration Tool
 - New application added to the C-Soft installer package. Allows system administrators to configure per position settings on the dispatch console. Settings are stored in C:\ProgramData\Telex Communications\C-Soft\Settings\ClientSettings.xml.
 - Settings which can be configured by Console Configuration Tool:
 - Enable CMS feature set and CMS connection information.
 - Design Management settings which include:
 - Use log in and remote design files from CMS.
 - Select Log In window mode.
 - Enter User Name and Password.
 - Select User and Enter PIN.
 - Use Default User Name and Password.
 - Show and Browse local files.
 - Configure default directories for audio storage, GPS data, images, sounds, and the location of the crossmute file.



- Enter console name and select the active Network Adapter
- Configure parameters to connect to Telex System Manager

For more information on the Console Configuration Tool, see Appendix M in the C-Soft v8.000 Technical Manual.

4. Improved Features and Fixed Issues

Version 8.500

- SIP Domain/Server IP address field would not allow change after entering an IP address.
- Select Button setting field -> 'Annunciation of select call' is now defaulted to blink select button 'Unchecked'.
- SIP Extinction field would not allow change after entering data.

Version 8.239 thru 8.499

- No beta versions released.

Version 8.238

- Console Configuration tool and Console Launcher upgraded to version 1.0.0.1.

Version 8.237

- NA

Version 8.205 thru 8.236

- No beta versions released.

Version 8.204

- Telex License Activation Tool
 - Updated to continue functionality with Keen Tech licensing.
- IP-3X0X:
 - Fixed a problem introduced in C-Soft 8.202 in which IP-3X0X was launching with incorrect UI scaling.
- Runtime
 - Fixed VU meters not properly updating for audio traffic on Lines 1 – 300.
 - With simultaneous SIP incoming calls ringing and then the first stopping, C-Soft now properly continues playing ring tones.
 - With simultaneous SIP incoming calls ringing and the first stopping, C-Soft no longer disables the 'Answer' button.
- Designer
 - Fixed minor problem with UI Controls filter list in which certain ADHB-4 filters were not working correctly. Additionally, removed a few obsolete entries.
 - Generalized menu and dialog text to generalize text to apply to new IP-3100 consoles.

Version 8.203

- Runtime

- Fixed a problem in which a relay control button set to “Activate Relay in Call” would improperly deactivate while still in a SIP call. The situation occurs when in a call, a second call on a different extension is received.
- Fixed an issue with the CallType field in the AIS RTP header which prevented operation with the Kenwood NXR-1800 repeater.
- Designer
 - The installer now included and runs the prerequisite VC++ 2012 Runtime on install if not installed on the system. This prerequisite previously only was installed in C-Soft Runtime’s installer.

Version 8.202

- Fixed a problem in which upon launching C-Soft on an IP-30XX, C-Soft’s UI scaling would intermittently be incorrect due an errant Windows size request, resulting in the entire design workspace being shrunk to roughly a quarter of its intended size.

Version 8.201

- NA

Version 8.200

- NA

Versions 8.108 thru 8.199

- No beta versions released.

Version 8.107

- Runtime
 - Fixed issue: Cross-Muting Parallel Consoles would not unmute selected line and play audio to the headset.

Version 8.106

- Runtime
 - Fixed issue with DFSI Analog voice not cross patching to IP224.
 - Fixed issue with DFSI Server Backup console crashing when converting back to Client console (Added Critical Section).
 - Fixed issue if CAT file opened on IP-30XX firmware upload may fail.

Version 8.105

- NA

Version 8.104

- Runtime
 - Fixed issue where option “Always On EXCEPT Phone Active” is selected but active SIP call audio goes to select speaker when another line ring and the call is not answered on current position .

Version 8.103

- Runtime
 - Fixed issue For CSSI Direct Connect where **unattended** console may lose part of receive audio stream. Condition gets progressively worse with time until console becomes unresponsive.

- Fixed DFSI issue with client server back up. If original server goes down and back up client server becomes new server, client transitioning to new server may crash.

Version 8.102

- NA

Version 8.101

- Runtime
 - Fixed issue which broke support for the Enter/Return keyboard key in the SIP Call Window in C-Soft v7.700. Pressing the Enter/Return keyboard key now once again dials the entered phone number in the SIP Call Window.
- Console Administrator Service
 - Fixed crash upon receiving an empty packet on TSM detection port.

Version 8.100

- C-Soft Runtime
 - Licensing
 - Fixed issue where if all lines were disabled due to a multicast bind error, C-Soft no longer incorrectly shows the license error window.
 - Network Interface
 - Improved network adapter bind logic, now only uses the Primary Network Adapter setting as configured in either Console Configuration Tool or Telex System Manager if multiple adapters are present on the system, and the specified adapter actually exists. If only one network adapter is present, C-oft uses it.
 - Fixed issue in which "Network not connected" error message would incorrectly display as a result of the Primary Network Adapter setting not actually matching the bound adapter.
 - General
 - Added mechanism to avoid unnecessary writes to ClientSettings.xml when nothing changes. This change was made to avoid possibility of file corruption due to concurrent writes.
- IP-30XX Boot
 - On boot, the device no longer indicates error while waiting for Console Administrator Service to start.
- IP-30XX Stability
 - Fixed problem with Console Administrator Service failing to boot due to a corrupted ClientSettings.xml file, resulting in soft bricking the device until a C-Soft installer is manually ran on the device. CAS is now much more resilient, and will recover utilizing default settings. Now if file corruption occurs, the recovery process is much easier: simply reconfigure the device's CMS settings, or write a TDA to the device to recover it to a working state.
- IP-30XX TRI Installation
 - Fixed critical problem with C-Soft 8.000 installer failure resulting in removal of Console Administrator Service, effectively soft bricking the device until a C-Soft installer is manually ran on the device.



C-Soft Version 8.500 Release Notes

Added logic to only allow TRI installations if the new version is newer than the installed version. It is also required to use TSM 3.200 or newer to apply the firmware update.

Version 8.000

- C-Soft Designer
 - General
 - Fixed a problem in which the “Run C-Soft” button was not opening the most up-to-date version of the design after opening a design (.veg), saving as a Telex Design Archive (.tda), and then pressing the “Run C-Soft” button.
 - Global Settings
 - Removed the IP Interface setting in Edit -> Setup Global Parameters -> Peripherals -> Network Settings. This field is now stored as a per position setting and is configured using Console Configuration Tool or Telex System Manager.
- C-Soft Runtime
 - General
 - Fixed issue where if no lines were selected, and either transmitting on a selected crosspatch or using a Crosspatch PTT button, the Main PTT button would become stuck in the transmit state.
 - Fixed rare crash when closing C-Soft when rapidly pressing PTT while using PTT-driven relays.
 - Fixed incorrect reporting of “Network Disconnected” in the status bar when on a flat network.
 - Network Interface
 - C-Soft Runtime will now always use the Network Adapter configured in the per position settings and configured either in Console Configuration Tool or TSM. Previously, Runtime would use the network adapter located at the slot specified by the IP Interface setting in Designer. However, the order of the list used in Runtime was not fixed and would change as network adapters were connected/disconnected and enabled/disabled. In certain scenarios, this caused Runtime to select network adapters in an unpredictable manner.
 - P25
 - Fixed a crash encountered when transmitting cross patched audio to a P25-DFSI analog channel.
 - SIP
 - Fixed issue where in certain configurations, the wrong extension was being shown to the called party on outgoing calls. Issue occurred if multiple SIP lines shared the same authorization name.
- Installer
 - ADHB-4 Driver Installer will now install properly on operating systems regardless of system language. Previously, only English operating systems would correctly install C-Soft.

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5. Known Issues

Version 8.238

- 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 page's 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 MOTORBO 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 MOTORBO 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 8.238

C-Soft v8.238 is compatible with the following Telex software/firmware:

- **Console Service and Utility Software**
 - Console Administrator Service (CAS) Version 2.100
 - Console Administrator Software Version 2.000
 - Console Configuration Tool Version 1.001
 - Console Management System Version 1.001

- Telex License Server Version 1.800
- Telex System Manager Version 3.500
- **ADHB-4**
 - ADHB-4 Version 3.600.
 - ADHB-4 Gen 2 Version 1.100 or higher.
- **IP-224**
 - IP-224 Version 3.500
- **Not compatible** with Flexera Entitlement Certificate C-Soft 7 line or upgrade licenses. A Flexera Entitlement Certificate for C-Soft 8 line license or C-Soft 8 upgrade license with C-Soft v7 license is required for C-Soft Runtime v8 operation. Please contact Telex sales to acquire C-Soft 8 licenses.
- **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 sales to acquire C-Soft 8 licensing.

7. Installation and Upgrade

Version 8.500

- To install C-Soft on Windows 8, 10 or 11:
 - Double click on the C-Soft_Setup_vXXXX setup executable.
 - Follow the steps provided on the screen to install C-Soft.
 - During installation, the user will be prompted to install C-Soft Designer. Follow the instructions on the screen to install C-Soft Designer.
 - During the C-Soft installation, the user may be prompted to install updated drivers for the ADHB-4 if they are not already present on the system. Follow the instructions on the screen to complete ADHB-4 Driver Installation.
 - 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
- To upgrade an IP-30XX:
 - In Telex System Manager 3.200 or later, select Tools | Firmware Update
 - Select C-Soft_Setup_vXXXX.tri
 - Select the desired target IP-30XX, and enter Username and Password as necessary.
 - Press "Write Firmware".

8. Revision History

Revision	Date	Author	Description
A	12/5/2024	Radio Dispatch Engineering Group	Updated to C-Soft Version 8.201
B	1/23/2025	Radio Dispatch Engineering Group	Updated to C-Soft Version 8.202
C	3/5/2025	Radio Dispatch Engineering Group	Updated to C-Soft Version 8.203
D	5/16/2025	JD	Updated to C-Soft Version 8.204
E	5/29/2025	SH	Updated to C-Soft Version 8.238
F	9/5/25	SH	Updated to C-Soft Version 8.500