



TELEX

Radio Dispatch

Radio Dispatch Engineering Group

C-Soft Version 7.200 Engineering Release Notes

Notice:

The content in this document represents the current view of Bosch Security Systems as of the date of publication. Because Bosch Security Systems responds continually to changing market conditions, this document should not be interpreted as a commitment on the part of Bosch Security Systems. Bosch Security Systems cannot guarantee the accuracy of any information presented after the date of publication.

Bosch Security Systems, Inc. All rights reserved

F01U200805 – Rev 14

February 3, 2017

Table of Contents

1. Revision History	1
2. Overview.....	1
3. New Features.....	1
Version 7.200	1
4. Improved Features and Fixed Issues	3
Version 7.200	3
5. Known Issues.....	6
Version 7.200	6
6. Compatibility.....	7
Version 7.200	7
7. Installation and Upgrade.....	7
Version 7.200	7

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

2. Overview

This is the release notes for C-Soft Version 7.200 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 7.100.

3. New Features

Version 7.200

- **Call Queue Window Features**

- In C-Soft Designer, added the following configuration options to the Call Queue Window Setup page:
 - **Play audible alert when receiving new entries** – When checked, an audible alert is played on Speaker 1 when receiving a new call queue event. The audible alert serves as a notification is played each time a call event is added to the Call Queue Window
 - **Remove completed entries from window** – When checked, call entries with a call state of Completed are removed from the Call Queue window. A Call entry is removed from the window once the Clear button is clicked
 - **Event Priority** - Added ability to prioritize the Call Queue window by time or by event status ID. The event status IDs can be sorted either in ascending (i.e. 1, 2, 3) or descending (i.e. 3, 2, 1) order.

- **Dealer Mode Licensing**

- Added support for a specialized mode of operation that enables all feature licenses on a temporary basis. It is intended for Dealers who wish to demonstrate C-Soft's capabilities to potential customers or to support existing customers. Contact Telex Tech Support if you wish to obtain a Dealer License.
 - A Dealer License enables the following:
 - 50 lines
 - 12 SIP Lines

- 24 P25-DFSI Lines
 - 24 NEXEDGE Lines
 - 100 Per-Line Call Playback Lines
 - Any new upcoming feature
- While using a Dealer License:
 - C-Soft displays “Dealer License: Not for Resale” in the status bar.
 - C-Soft displays a message popup every 15 minutes.
 - C-Soft closes after an hour of operation
- **Call Logging and Playback**
 - Added the capability to log and record outgoing calls.
 - A Per-Line Call Playback license is required to use this feature. One line of PLCP is free, and can be used to evaluate the feature.
 - In C-Soft Designer’s Global Parameter Setup->IRR Recording Tab page, added setting **Log Outgoing Calls**. When checked, outgoing calls are logged. In addition, for each line selected in the Line Recording Setup List, outgoing calls are also recorded. C-Soft’s logging and recording behavior is as follows:

Per Line Recording for Specific Line	Log Outgoing Calls	Result
Disabled	Disabled	Log Rx Calls*
Disabled	Enabled	Log Rx Calls, Log Tx Calls
Enabled	Disabled	Log + Record Rx Calls*
Enabled	Enabled	Log + Record Rx Calls Log + Record Tx Calls

* Certain targeted outgoing calls (i.e. Group Calls, Private Calls) may still be logged.

- Popup Call History Window UI Element->Call List Options: Added Direction column visibility option.
 - Per Line Call History Window UI Element->Per Line Call History Setup: Added Direction column visibility option.
 - Language Customization->Column Headings: Added Direction column text customization.
- **Radio Command Support**
 - Added support to send Radio Check for lines configured for Telex Serial Signaling.
 - The Kenwood NEXEDGE Conventional Direct IP Interface now supports the following GPS operations :
 - GPS Read
 - GPS Trigger On
 - GPS Trigger Off
- **SIP**
 - Added option to SIP Line Configuration window “Enable Voicemail Notification”. Previously, this feature was always enabled, but now can be disabled. When unchecked, C-Soft will no longer send SIP Subscribe messages to obtain Voicemail Notification information.
- **Miscellaneous**

- Changed installation package to automatically detect x86/x64 Windows, and install files appropriately.
- Added option to SIP Line Configuration window "Enable Voicemail Notification". Previously, this feature was always enabled, but now can be disabled. When unchecked, C-Soft will no longer send SIP Subscribe messages to obtain Voicemail Notification information.

4. Improved Features and Fixed Issues

Version 7.200

- C-Soft Designer
 - Global Parameters - Audio
 - Added the **Disable Audio Bandpass Filters** checkbox to the Edit -> Setup Global Parameters -> Audio tab. When checked, audio transmitted from C-Soft will not pass through the vocoder specific bandpass filter before being encoded. This option affects all lines in the .veg file.
 - Call Logging and Playback
 - Fixed issue where recorded audio would not be stored in a newly created Recording folder. The new folder would be created correctly, but audio files would not be stored in the folder until the console was restarted.
 - Fixed issue which would cause the Play button in the Call History Window's playback control to be disabled while a call was playing. The Play button would disable when clicking the Skip Forward and Skip Backward button and the previously selected call entry did not contain playable audio.
 - Call Queue Window
 - Moved Call Queue Window Column configuration from Call Queue Window Setup page to its own page, Call Queue Columns
 - Re-named the Call Queue column previously named "Status" to "Call State". The Call State column displays the current state of the call queue entry (i.e. Waiting, Processing, or Completed).
 - Added Status column to Call Queue column configuration. The Status column will display the status alias, or ID if the alias is not available, for call queue events generated from an incoming status.
 - Upon creating certain drop down buttons, fixed incorrect initial button direction appearance.
 - Fixed issue where statuses were not being properly saved in the Enabled Status list in the Call Queue Setup Window. Entries could be added to the Enabled Status list Call Queue Setup Window in Designer, but an entry would not be created in the Call Queue Window when the status was received in Runtime.
 - P25-DFSI
 - Fixed crash when importing a P25-DFSI channel table containing over 100 entries, which exceeds the maximum number of P25-DFSI channels.
 - Miscellaneous
 - Removed all settings related to the HB-3+ Headset Adapter Panel.
 - Fixed import of both x86 and x64 versions Windows graphical library, which generated a SideBySide Assembly versioning conflict error in Windows Error Log.

- The "Global Radio Button" checkbox is no longer shown for the Radio Call Type button as the button is always global.
 - In UI Element Setup for Radio Call Type button, the "Global Radio Button" checkbox is no longer shown, as the button is always global.
- C-Soft Runtime
 - Audio
 - Fixed a problem which caused a noticeable buzz of static at the start of a call while transmitting with an ADHB-4 mic.
 - Fixed issue which caused audio received on lines using the TELEX 32K vocoder to contain excessive static and popping sounds.
 - Fixed issue which caused transmit audio to sound differently in v7.100 than in v7.000 when using the following vocoders: TELEX 32K, G.726 32K, and G.711 64K. Transmit audio contained more bass in v7.000 because the bandpass filter was not being applied correctly in that version. By checking the **Disable Audio Bandpass Filters** checkbox in Global Parameters -> Audio, transmit audio in v7.200 will now sound the same as in v7.000.
 - Addressed problem where audio bandpass filters were not being used for all vocoders types. All vocoders now implement the following bandpass filters:

Vocoder	Pre-v7.102 Bandpass Filter	v7.102 Bandpass Filter
TELEX 32K	200 – 3400 Hz	200 – 3400 Hz
G.726 16K	None	300 – 3000 Hz
G.726 32K	200 – 3400 Hz	200 – 3400 Hz
G.711 64K	200 – 3400 Hz	200 – 3400 Hz
AMBE+2 (P25-DFSI)	None	300 – 3000 Hz
AMBE+2 Half Rate (NEXEDGE)	None	300 – 3000 Hz

- Call Logging
 - Decreased the potential of crashes occurring at the end of a received call by adding additional logic to the Call History and Call Logging features.
 - Fixed issue where receiving a very long call of more than five minutes on a P25-DFSI line could cause the console to crash.
 - Fixed issue where recorded audio would not be stored in a newly created Recording folder. The new folder would be created correctly, but audio files would not be stored in the folder until the console was restarted.
- Call Queue Window
 - Call Queue Window will now appear automatically whenever a new call event is added to the window.
- Emergency
 - C-Soft will now unmute audio upon receipt of an emergency call or alert for all radio protocols. Previously, the line would remain muted for the following protocols:
 - P25-DFSI
 - MTRBi
 - MOTOTRBO Interface

- NEXEDGE Trunking
 - NEXEDGE Conventional
 - DTMF-Triggered Emergencies
- HB-3+
 - Removed all support for the HB-3+ Headset Adapter Panel.
- Licensing
 - Increased the number of times C-Soft attempts to re-connect to the Flexera License server before losing connection to the server. This change should reduce the number of license disconnection errors while C-Soft is in operation.
- MOTOTRBO Interface
 - Fixed an issue where MOTOTRBO's Master/Slave operation was not working.
 - Fixed an issue when keying up the MOTOTRBO XPR 5550 on a Connect Plus channel, there is no transmit audio.
 - Fixed issue which would cause C-Soft to crash after sending a page on a line using MOTOTRBO signaling. Crash would occur at the end of the page if the "Revert to initial frequency after sending page" option in Paging Settings was enabled.
 - Fixed a problem encountered when changing the volume on a MOTOTRBO radio led to C-Soft losing connection to the Connect Plus system.
 - GPS Read requests sent from C-Soft which never receive a response are now logged in the Call History Windows as having timed out. The GPS Read button and Keypad control also now display a timeout notification.
- NEXEDGE Direct IP
 - When using ADHB-4, previous versions would not allow received audio while transmitting. Issue has been corrected to allow received audio while transmitting. Issue does not exist in previous versions if not using ADHB-4.
 - Fixed indexing problem with Over-the-Air-Aliasing. Previously, OTAA updates were not properly managing internal system list resources, eventually leading to a buffer overflow and eventual crash.
 - Increase stability by checking the current connection before accepting any SIP invite during Group call. SIP invite message is ignored until the release process is complete.
 - Fixed a crash encountered when using a NEXEDGE line with a System List containing no users and a Private PTT button is associated with the line.
- NEXEDGE
 - Addressed issue of group registration for talk group that is greater than 9 in NEXEDGE Trunking Direct IP interface.
 - Fixed crash encountered when receiving a NEXEDGE Trunking call, when the first line is set to P25-DFSI.
 - Fixed issue with audio being cutoff at the end of a conversation while using NEXEDGE Conventional.
- P25-DFSI
 - C-Soft now specifies a MFID of 0. Previously, C-Soft was sending the MFID for Tait or Codan depending on the P25 Manufacturer setting.

- Fixed problem encountered with the Motorola APX 7000 radio where C-Soft was incorrectly interpreting GPS data as ANI data.
- Fixed problem encountered with Codan Data Link Controller causing failure to key up in analog mode. Issue resolved by reversing audio and Start of Stream block order.
- Status messages received are now correctly displayed on the receiving line's Select button.
- Popup Window
 - Fixed issue which caused C-Soft to crash if the application was started while receiving audio on a line located in a Popup window with the "Open Window on Activity" feature enabled.
- SIP
 - Fixed several issues relating to the Grandstream UCM6108 SIP Server:
 - Voicemail Notifications now appear correctly.
 - "Forward Calls while busy" feature will now work by entering the destination's extension number. Previously, the destination's entire SIP URL was required for the call to be forwarded.
 - The History tab in the SIP Call Control now displays the correct call entry information for calls missed due to the "Forward Calls while busy" feature being enabled.
 - Fixed issue which caused C-Soft to eventually hang or stop responding. The problem was related to how C-Soft was handling the SIP REGISTER and SUBSCRIBE messages.
 - Fixed a potential bug when C-Soft is running on a computer with multiple network interface cards. Upon attempting to connect to a SIP server, C-Soft may send out excessive register messages.
- Text Messaging
 - Fixed rare crash encountered when sending a text message.
- Miscellaneous
 - Fixed a crash encountered when receiving FleetSync signaling packets on a Generic line without a System List.

5. Known Issues

Version 7.200

- Per-Line Recording on a SIP line will not record all participants during Consultant Transfers, 3-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.

6. Compatibility

Version 7.200

- Compatible with ADHB-4 Version 3.000
- Compatible with IP-224 Version 2.100.
- Compatible with Telex License Server 1.102.
- **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 7.200

- To install C-Soft on Windows 7, Windows 8, and Windows 10:
 - Double click on the C-Soft_7_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