

## Version 8.1.0 Release Notes For MacCaption

### About This Release

- MacCaption 8.0 is a full rewrite of the software with many significant changes. Please carefully read the sections below before upgrading.
- If you are running Mac OS 10.14 (Mojave), you can run MacCaption 7 and MacCaption 8 on the same system (see below for installation instructions). MacCaption 7 does not run on Mac OS 10.15 (Catalina) or later, and MacCaption 8 does not run on Mac OS 10.13 or earlier.
- MacCaption version 8.0 supports Desktop, Pro, and Enterprise licenses provided by Telestream. Serial numbers beginning with “CC” and dongles are supported.
- If your MacCaption maintenance & support plan has expired as of March 21, 2022, or if you are using a software serial number which begins with “TSCAP”, you will not be able to run this version of MacCaption. Please contact Telestream to renew your maintenance & support plan and upgrade your serial license before installing this version.
- Please test before upgrading your production environment, especially if you’re in the middle of any projects. It is always advisable to test the new version before updating your production systems. Telestream can provide you with a limited license in order to configure and qualify this new release in a test environment prior to upgrading your production systems.

### Installation Instructions

- MacCaption Installation and Activation Instructions:  
<http://www.telestream.net/captioning/resources.htm> (see under Documentation)
- To install multiple versions of MacCaption simultaneously (e.g. version 7 and 8):  
Note that the only Mac OS version that can run both MacCaption 7 and MacCaption 8 on the same machine is Mac OS 10.14 (Mojave).
  1. Install one version of MacCaption if you haven’t already
  2. Go to the Applications folder and rename the “MacCaption” application to e.g. “MacCaption 7”
  3. Install the other version of MacCaption
  4. Optionally, rename the latter install from “MacCaption” to e.g. “MacCaption 8”
- To use the Auto Time Stamp (ATS) feature, you must install a version of Java Runtime Environment (JRE) and/or Java Development Kit (JDK) that is compatible with your Mac OS version.

Here are the steps recommended by our support team:

1. If you have any version of the Java JRE installed on your machine, please be aware that you must first uninstall it by using the Java Uninstall Tool. Here is the link to that option: <https://www.java.com/en/download/uninstalltool.jsp>
2. After Java has been uninstalled, please follow these instructions:
3. Download OpenJDK v10.0.2 from <https://jdk.java.net/archive/>
4. Unpack the .tar.gz file.
5. Move the resulting folder to the following directory: /Library/Java/JavaVirtualMachines
6. **Restart your computer.**

## System Requirements

- Operating Systems:
  - **Mac OS 10.14 (Mojave) – MacCaption 8.x and 7.x**
  - Mac OS 10.15 (Catalina) – MacCaption 8.x only (limited testing)
  - Mac OS 11.0 (Big Sur) – MacCaption 8.x only (limited testing)
  - **Mac OS 12.0 (Monterey) – MacCaption 8.x only**
  - Note: QA testing of MacCaption 8.1 was focused on 10.14 (Mojave) and 12.0 (Monterey). Only limited testing was performed for 10.15 (Catalina) and 11.0 (Big Sur). Most Macs running these Mac OS versions should be able to upgrade to 12.0 (Monterey) if required.
- Intel CPU, or Apple Silicon M1 CPU using Rosetta 2
  - Note to M1 Pro/Max/Ultra users (does not apply to regular M1 users):  
The “Black movie with subtitles” (subtitle overlay) and “Movie with Combined Subtitles” (burn-in subtitles) exports do not function correctly in MacCaption 8.x when using a M1 Pro, Max, or Ultra CPU. This is because these chips include a ProRes hardware encoder which has a bug in its support for alpha channel. We have attempted several workarounds, but none have been successful yet. We are currently investigating additional workarounds for this issue for the next MacCaption update.
- 4GB RAM
- 5GB free hard disk space
- Minimum screen resolution: 1280x720 (720p)
- One free USB port (only if using a dongle based license)
- Internet access required for Timed Text Speech (transcription) and some online features

- Auto Time Stamp requires Java Runtime Environment (JRE) or Java Development Kit (JDK) version 8 or later

## Important Changes since Version 7

- The following features have been removed in MacCaption 8.0 and are not planned to be added to subsequent releases due to the lack of 64-bit components or end of 3<sup>rd</sup> party support for these features:
  - “Add to File” special QuickTime exports. (Note that the standard QuickTime 608/708 exports are still available.) “Add to File” relied on a special trick of the QuickTime API, which has been deprecated by Apple, and which only worked on disks using the HFS+ file system, which is no longer the default file system on Mac.
  - Avid AAF Export. The necessary 3<sup>rd</sup> party library code has been discontinued and is not available for 64-bit Mac applications.
  - Playback of movie files that aren’t supported by AV Foundation, such as files which require QuickTime plug-ins (3<sup>rd</sup> party codecs, etc.)
  - Playback of audio-only files (e.g. MP3 or AAC files)
  - QuickTime Text Tracks and QuickTime Subtitle Tracks, which have been deprecated by Apple.
  - Support for using Manzanita 3<sup>rd</sup> party software to mux CableLabs transport streams. Manzanita no longer sells or supports these add-ons.
  - Software serial licenses that begin with “TSCAP” are no longer supported. You can upgrade to a supported license which begins with “CC”, provided you have current software maintenance & support.
- The following features are unavailable in this version of MacCaption, however they may be possible to add in a future update. If you require any of these features, please contact support so we can prioritize features requested by users:
  - Imports: Anystream XML, AVID DS, TDS, CIN, Cheetah ASC (Cheetah CAP is supported), CPC-715 ONL, Inqscribe, NCI CAP, Sofni SUB
  - Exports: CCIR 601 MP@ML MPEG-2 (Line 21 VBI), CCube, DV/DVCPRO (HD), DVD MPEG-2, Black Movie (line 21 CC), TDS, CIN, Cheetah ASC, ONL, Evertz ProCap, Flash Text, Flash XML for Flash CS4, Apple XML Interchange for FCP7
  - Assemble Captions from FCPX XML (FCP7 XML is still supported)

- Batch Export (Command Line is still supported)
  - Scene Change Detection
  - Export Movie with Open Captions
- The QCC Multi-format Import can extract CC from almost all types of media files, including MOV, MP4, MXF, MPEG-2, H.264, DV/DVCPRO, ProRes, etc. Several redundant format-specific imports (e.g. import ATSC DTV 608/708, import ProRes VANC, import XDCAM MXF, etc.) which performed the same functions have been removed since the QCC Multi-format Import handles all of these formats.
  - The MPEG-2 Userdata 608/708 Export replaces the previous ATSC DTV 608/708 to MPEG-2 export which provides similar functionality.
  - Users who require any of the features listed above should continue to use MacCaption 7.0.13 under a 32-bit compatible version of Mac OS (10.14 or older), or use CaptionMaker in Windows. (You can use the same MacCaption license for CaptionMaker as well.)

## New Features and Improvements in Version 8.1.0

- Added 1.25x and 1.5x video playback speeds when jogging via J-K-L keys (MACCAP-2506)
- Re-enabled export “Digital Cinema Distribution Master” (MACCAP-2465)
- Added “Next/Previous Error” navigation menu items (MACCAP-2505)
- Added warning label when project timecode mode does not match the video file. (MACCAP-2345)

## Fixed in Version 8.1.0

- Fixed QuickTime 708 CC Track export was changing the timecode track from DF to NDF (MACCAP-2502)
- Fixed V-chip/XDS encoding wasn’t working in some 608/708 exports. (MACCAP-2453)
- Fixed unnecessary line breaks being inserted when switching from Subtitle mode to Caption mode. (MACCAP-2487)
- Fixed switching from Subtitle mode to Caption mode would sometimes re-arrange lines of text. (MACCAP-2484, 2457)

- Fixed “Show Actual Captions During Time Stamp” had inconsistent behavior in some editing modes. (MACCAP-2455, 2456, 2435)
- Improved typing into blank timecode fields. (MACCAP-2054)
- Fixed captions sometimes not changing when frame stepping through video. (MACCAP-1774)
- Fixed subtitle positioning using mouse stops working after setting a subtitle resolution different from the video size. (MACCAP-2023)
- Fixed subtitle text becoming bold when using push/pull word when the font is set to an “always bold” font e.g. Arial Black. (MACCAP-2434)
- Fixed roll-up captions not previewing correctly when top positioned. (MACCAP-2397)
- Fixed plain text import option “End caption with end of sentence punctuation” wasn’t always breaking in the correct place. (MACCAP-2376)
- Fixed “Caption Times Overlap” error check did not update immediately after marking an in time. (MACCAP-2508)
- Fixed positioning and nudging of subtitles using the arrow keys was behaving inconsistently. (MACCAP-2498)
- Fixed “Reformat to Pop-on Captions” operations flagged cells with an empty error indicator (MACCAP-2499)
- Fixed “Blank between pop-on captions” encode setting was behaving opposite to the user’s setting. (MACCAP-2494)
- Fixed crash when importing a plain text file with a space at the beginning via drag-and-drop. (MACCAP-2493)
- Fixed inability to change “Maximum characters per line” setting when dragging-and-dropping a plain text file to import. (MACCAP-2492)
- Fixed different results when using Import on a captions-formatted TTML file vs. when using drag-and-drop. (MACCAP-2486)
- Fixed unnecessary line break inserted when inserting a music symbol into a line with 31 characters. (MACCAP-2471)

- Fixed Active Format Description (AFD) was always being inserted into some 608/708 exports, even when turned off. (MACCAP-2452)
- Fixed invalid “No Starting Time” error indicators after using “Fill-in All Caption Times” or “Auto Time Stamp”. (MACCAP-2451, 2444)
- Fixed UI selection border not working when using drag-and-drop. (MACCAP-2158)
- Fixed blank rows exported as blank graphics in BluRay BDN and Scenarist SST exports. (MACCAP-2069)

### **New Features and Improvements in Version 8.0.3**

- Improved text rendering quality in the preview window. (Export quality is not changed.) (MACCAP-2437)
- Added YouTube .sbv and .srt import. (MACCAP-2410)
- Added Evertz ProCap import. (MACCAP-2343)

### **Fixed in Version 8.0.3**

- Fixed QuickTime 608/708 and MXF Op1a exports via Telestream Media Framework was not always preserving the drop/non-drop frame timecode flag (MACCAP-2464, 2454)
- Fixex opening a movie for playback with Preserve Movie Timecode enabled was not always preserving the drop/non-drop frame timecode flag (MACCAP-2449)
- Fixed crash that could occur on some machines when time stamping after applying “Insert Surrounding music symbols” to a range of selected captions. (MACCAP-2399)
- Fixed choosing a font that is considered “naturally bold” would also apply the bold attribute to subtitle text. (MACCAP-2358)
- Fixed “Move to Top” in subtitle mode wasn’t moving subtitle all the way to the top. (MACCAP-2413, 2286)
- Fixed subtitle outlines were drawing at half of the specified width. (MACCAP-1733)
- Fixed changing caption positions via the Caption > Horizontal Positions > Center or Right menus was changing the justification instead of the position. (MACCAP-2013)
- Improved subtitle positioning when imported from captions (MACCAP-2460)

- Fixed Find/Replace could insert unwanted line breaks. (MACCAP-2432)
- Fixed selecting a cell would not always highlight the cell using the user's preference for selected cell background color, and selecting a different cell would not always reset the selected cell's background color. (MACCAP-2429, 2095)
- Fixed scrubbing forward in the movie, setting the Movie Time, and then scrubbing backward wasn't setting the movie time correctly for the current movie position. (MACCAP-2421)
- Fixed Stretch/Shrink Timecode feature to account for the project starting time as in MacCaption 7.x. (MACCAP-2417)
- Improved behavior of displaying the currently selected caption in the preview window to match MacCaption 7.x behavior. (MACCAP-2415)
- Fixed importing Plain Text files now sets all captions to center justified to match previous version behavior. (MACCAP-2391)
- Fixed a crash when importing EBU-STL files with non-standard frame rate information in the header. (MACCAP-2383)
- Fixed importing SRT files with multiple lines in italics would only have the first line italicized. (MACCAP-2305)
- Fixed drag-and-drop of plain text files into the editing area now triggers the Plain Text Import dialog. (MACCAP-2257)

## New Features and Improvements in Version 8.0.2

- Added new Export: QuickTime 608/708 using Telestream Media Framework. This export now uses Telestream technology to embed 608/708 captions tracks into QuickTime mov files in order to support more varieties of QuickTime files and for improved compatibility and reliability. (MACCAP-2369, 2351, 2349)
- Re-implemented export: Generic DFXP Without Positioning (.xml) (MACCAP-2402)

## Fixed in Version 8.0.2

- Fixed Video Follows Captions / Captions Follows Video options not working for some video files, or not always working after certain operations like time stamping, shuttling, or changing the movie's start time. (MACCAP-2408, 2387, 2386, 2354, 2325, 2324, 2066)

- Fixed Preferences > Preserve movie timecode checkbox was not functioning correctly. (MACCAP-2091)
- Fixed exporting Movie with Combined Subtitles had the wrong starting time for the first subtitle unless a blank subtitle was inserted at the start of the project. (MACCAP-2388)
- Fixed paint-on/roll-up captions not appearing correctly in the preview window. (MACCAP-2090)
- Fixed some issues inserting captions into OP1a .mxf files (MACCAP-2384)
- Fixed import of tab-delimited plain text files with Time In/Out was importing the time codes as caption text. (MACCAP-2395)
- Fixed lower limit setting not sticking when exporting SCC. (MACCAP-2396)
- Fixed incorrect warnings about caption buffer times when exporting after a frame rate conversion. (MACCAP-2407)
- Fixed issues using the keyboard/mouse to change subtitle positions or to split the lines. (MACCAP-2363, 1989)
- Fixed caption timing changed when using Push/Pull Word outside of Transcription Mode. (MACCAP-2378)
- Fixed error indicators not appearing when first opening a project file with errors. (MACCAP-2404)
- Fixed a crash when importing QuickTime 608/708 CC via the QCC multi-format import. (MACCAP-2348)
- Fixed time code displays not refreshing after changing the time code mode. (MACCAP-2403)
- Fixed glitches in the error status area after changing preferences. (MACCAP-2302)
- Fixed ripple time code to decrease TC below zero would set a negative time code. It is now truncated at zero. (MACCAP-2247)
- Fixed Text Color > Default was setting the color to black. (MACCAP-2203)
- Fixed erroneous warning in the message window related to non-existent rows or empty rows at the end of the project. (MACCAP-2140, 1973)



- Fixed erroneous warning in the message window when applying underline to captions with 32 characters on a line. (MACCAP-1901)
- Updated HASP download link in the installer. This is only needed if you use a USB dongle. (MACCAP-2416)

## New Features and Improvements in Version 8.0.1

- Added new Export: Embed CC into MXF Op1a. This export uses Telestream Media Framework technology to embed CEA-608/708 CC and supports more types of Op1a MXF files than in MacCaption 7.0, including XDCAM HD and XAVC. (MACCAP-2212)
- Import Plain Text re-implemented text breaking and formatting options from MacCaption 7.0. Note that some options behave slightly differently than before. (MACCAP-2340)
- Export Plain Text re-implemented similar to MacCaption 7.0. (MACCAP-2339)
- Export Black Movie with Subtitles now available in Big Sur. (MACCAP-2292)

## Fixed in Version 8.0.1

- Fixed Option-Click on a timecode not working in Big Sur, and/or crashing on Mojave. (MACCAP-2364, MACCAP-2270, MACCAP-2341)
- Fixed text getting erased when switching from Subtitle to Caption mode. (MACCAP-2355)
- Fixed rows getting erased when using Pull First Word repeatedly. (MACCAP-2347)
- Fixed subtitle overlay export movies did not export the blank frames for the duration prior to the first row's start time. (MACCAP-2338)
- Fixed video scrub bar showing incorrect position or showing the wrong duration for the movie. (MACCAP-2342, MACCAP-2094)
- Fixed caption justification sometimes changed spontaneously. (MACCAP-2359)

## New Features and Improvements in Version 8.0.0

- Complete software rewrite for compatibility with 64-bit only Mac OS versions, starting with Mac OS Catalina (10.15) and later.

- Updated caption/subtitle grid overlay option for more consistency. (MACCAP-2010)
- Video engine now uses AV Foundation instead of QuickTime for better playback performance

### Fixed in Version 8.0.0

- Exports that previously failed due to 32-bit memory limitations, such as exporting 4K/UHD subtitle graphics (e.g. Blu-ray PNGs) will now succeed provided your system has sufficient memory available. (MACCAP-2132)
- The limitation of 16,000 caption rows has been lifted. (MACCAP-2061)

### Known Issues in 8.1.0

- The “Black movie with subtitles” (subtitle overlay) and “Movie with Combined Subtitles” (burn-in subtitles) exports do not function correctly in MacCaption 8.x when using a M1 Pro, Max, or Ultra CPU. This is because these chips include a ProRes hardware encoder which has a bug in its support for alpha channel. We have attempted several workarounds, but none have been successful yet. We are currently investigating additional workarounds for this issue for the next MacCaption update.
- You may need to adjust your subtitle outline width settings if they appear too thick in this version, due to the fix for an issue causing them to draw at half of the specified width in prior versions. (MACCAP-1733)
- Setting your editing Display font to a font that is naturally bold (e.g. “Arial Black”) or naturally italic (e.g. “Avenir Oblique”) may result in caption/subtitle text having the bold or italics flags applied to them. We recommend not changing the Display font to such a font. Note this Display font is just the font used for the text cell editing area. This issue does not affect the font chosen for the subtitles (preview area/subtitle export) via the Subtitle > Subtitle Configuration menu. (MACCAP-2280)
- Closing the project window now quits the program. This was done to work around several bugs and issues seen when closing the project window and opening a new window without restarting MacCaption first. (MACCAP-2393, 2385, 2361, 2357, 2356, 1992)
- Projects saved in previous versions where Text Color > Default had been clicked, may show the text as black on a black background. If this occurs, you can select all the text and use Text Color > White. (MACCAP-2012)
- Subtitle text may disappear if you position subtitles outside of the title safe area and then switch from Subtitles mode to Captions mode. (MACCAP-2431)

- Selecting a single line of a subtitle and trying to reposition it using the arrow keys will select and move the entire subtitle instead of the selected line. (MACCAP-2430)
- When exporting Movie with Combined Subtitles, if the codec is set to ProRes and you change the file format from QuickTime to MPEG-4, the codec will automatically change to H.264, however you may find the bit rate field cannot be edited. In this case, change the file format to QuickTime and the codec to H.264, set the desired bitrate, and then change the file format back to MPEG-4. (MACCAP-2332)
- A few UI elements do not use a dark background when Mac OS is running in “Dark Mode”. (MACCAP-2229, MACCAP-2230)
- Audio-only files (e.g. MP3, WAV files) are not supported as preview media in this version of MacCaption. (MACCAP-2173)
- When exporting 608 captions from a project containing blank rows, the exported file contains the necessary clear caption commands to encode the blank rows. However, after re-importing the 608 captions, the blank caption rows are missing from the project. (MACCAP-1909)
- Using Option-Click to set a timecode on an in, out, or duration time code field will not update the field if the resulting timecode would not be allowed in the context of the project, for example, when trying to set an out time that is prior to the in time, or when setting an in time that is prior to the previous cell’s in time. (MACCAP-1870)
- When running at the minimum 1280x720 or lower screen resolution, some UI controls may not be visible on the screen, for example the button at the bottom of the screen which toggles between Caption and Subtitle mode. You can still toggle between caption/subtitle modes via the Display menu.
- When using a Macbook with a 13” Retina display with the display set to “Larger Text” (larger than normal scaling), the effective screen resolution is lower than 1280x720 and thus does not meet the minimum screen resolution requirement for running MacCaption. This can be fixed by going to System Preferences > Display, and setting the resolution to “Best for display.” Another option is to use an external monitor that meets the minimum required screen resolution.
- When importing certain EBU-STL files containing right-to-left Hebrew, text may import number sequences in right-to-left order (opposite of intended) resulting in reversed numbers. (MACCAP-1048)
- When using Ruby subtitle formatting, languages other than Japanese are not officially supported. (MACCAP-1023)

- When using the Ruby annotation dialog window, cut/copy/paste of Ruby annotation text does not work using keyboard shortcuts. The workaround is to right-click with the mouse or trackpad and use the context menu to cut/copy/paste. (MACCAP-1059)
- When copying and pasting a block of caption cells, MacCaption may paste the previously selected text content of the system clipboard. Users must specify the insertion point by changing focus to the Text Panel itself (EX. Click below the timecode fields) and not the Text (Editing) Cell within the panel. See p.31 of the User Guide for Text Panel details. (MACCAP-1067)
- When in Display as Captions mode and using the default display font, music notes that are italicized will appear in italics in the movie preview area, but may appear as un-italicized in the text editing area. This is because the default display font for the text editing area does not include an italicized version of the music note character. A workaround is to change the display font via Display > Font. Changing this display font only affects the text editing area of the MacCaption window; it has no effect on the caption/subtitle font used for rendering the preview display or for exports. (MACCAP-1041)
- Importing subtitles TTML files when in Display as Captions mode causes MacCaption to attempt to re-format the subtitles to fit closed captioning rules (e.g. max of 32 characters per line). To prevent unwanted reformatting of the subtitles, please switch to Display as Subtitles mode prior to importing a subtitles TTML file. (MACCAP-1247, MACCAP-1292)
- Disconnecting a disk while MacCaption is writing to it during an export may cause MacCaption to crash or stop responding. If exporting to a network shared folder or removable hard drive such that the drive could become disconnected during export, it is recommended to save your project prior to export to avoid any potential loss of data. (MACCAP-1127)
- MacCaption does not support importing, exporting, or previewing projects with time codes greater than 24 hours or which roll over from 23:59:00:00 to 00:00:00:00. You will need to manually treat the segment up to 23:59 separately from the segment after 00:00. (MACCAP-1155)
- When importing and exporting IMSC 1.0 Subtitles, font outlines are limited to 10% of the base font size per the specification. Font outline sizes larger than 10% will be truncated to 10%. (MACCAP-1228)
- Warning: The "Encode 708 captions for 16x9" option in Caption > Encode Preferences is intended only for testing consumer TV sets and set-top box hardware. This option should not be selected when delivering to professional broadcast mechanisms and facilities. (MACCAP-1310)
- When setting a caption horizontal position and then clicking in the time code field to edit the time code, pressing Undo will not undo the change to horizontal position. (MACCAP-1504)

- When exporting SMPTE-TT with PNGs and a movie is loaded in the preview window, the resolution of the movie will be used to set the SMPTE-TT document extent, even if a different resolution was specified in the Subtitle Resolution drop-down menu.

Workaround: If you need to export SMPTE-TT with PNGs with a different resolution than the open movie, you can close the movie prior to export and select the desired Subtitle Resolution via the drop-down menu, or, load a movie which is the same resolution that you want to export. (MACCAP-1535)