

Release Notes

System Requirements

	Minimum	Recommended
Operating System	Windows 7, 10, macOS High Sierra, macOS Mojave	Windows 10, macOS High Sierra
Processor	i5 dual-core @ 2.3GHz ¹	i7 quad-core @ 2.8GHz+
Memory	4GB RAM	16GB+ RAM
Hard Drive	2GB ² , 7200 RPM for record to disk	500GB+, Solid State OS Drive
Graphics Card	Intel HD ³ , DirectX 11 capable	Nvidia GeForce or AMD Radeon, 1GB+ video memory
Internet Connectivity	Open HTTP/HTTPS port 80, RTMP port 1935, port 7272 for Remote Desktop Presenter	If behind a firewall, check with your CDN for any sites to whitelist

¹ May be insufficient for 1080p+ or 60 fps workflows

² Additional hard disk space required for record to disk.

³ Insufficient for advanced Multi-Viewer workflows.

Languages Supported:

- | | | | |
|-----------|------------------------|----------|-----------|
| • English | • Brazilian Portuguese | • Korean | • French |
| • German | • Chinese (Simplified) | • Czech | • Spanish |
| • Italian | • Japanese | • Dutch | • Swedish |

An internet connection is recommended for Wirecast 12 license activation. A Wirecast 12 license will automatically update at no cost after download for Wirecast 8, 9, 10 and 11 users if standard maintenance and support is current.

ATTN: Wirecast 9 and later versions have dropped support of HDV licenses/cameras.

~ [Please click here for additional information](#) ~

NewBlueFX Titler Live Express & Present – Includes over 60 title templates for lower-thirds and overlays (Mac & Windows).

- Purchase of Wirecast 12 Studio includes a free copy of [NewBlueFX Titler Live Express](#).
- Purchase of Wirecast 12 Pro includes a free copy of [NewBlueFX Titler Live Present](#).

Remote Desktop Presenter - Please use the Remote Desktop Presenter version 2.0.8, available as a separate download from Telestream: www.telestream.net/dtp

Best Practices

Minimum Required Upload Speed:

- It is recommended that an upload speed rate of at least double the selected video bitrate be available, especially for a total target bit-rate of 10Mbps (Megabits per second) or less, or when there are multiple outgoing streams.
- Upload speed can be tested at a website such as TestMy.net/upload.
- Additional tasks that can consume upload bandwidth on the network should also be considered when determining how much of the available upload bandwidth can be allocated towards streaming.

Rendezvous

Wirecast Rendezvous uses WebRTC technology that can be very resource intensive. For the best experience, we suggest considering the following table when choosing hardware:

	Studio (2 guests + 1 host)	Pro (7 guests + 1 host)
Bandwidth⁴	Add 4 Mbps	Add 5+ Mbps ⁵
Processor⁴	i5 quad-core ⁶	i7 quad-core ⁶

⁴Based on a single simultaneous stream of 720p30 x264 @ 4.0Mbps.

⁵Bandwidth per guest will scale downwards as more are added to maintain reliability.

⁶Minimum recommended processor with example stream⁴. More demanding workflows may require a more capable CPU.

ISO Recording:

- Solid State Drive or fast RAID array recommended for ISO Recording and Replay functionality.
- Actual data rates will vary depending on quality level selected for ProRes (Mac) or MJPEG recording (Windows), as well as the resolution and frame rate selected.
 - For Mac ProRes recording please refer to [Apple's ProRes data rate specifications](#).
 - Windows MJPEG Best Quality Guidelines (Megabytes per second):
 - 1080i and 1080p 29.97 and 30 FPS, MJPEG Best Quality – ~25MB/sec
 - 1080p 60 FPS, MJPEG Best Quality – ~50 MB/sec
 - 720p 59.94 and 60 FPS, MJPEG Best Quality – ~20 MB/sec
- Total expected data rate should be compared to available disk write speed to ensure adequate disk throughput.

Failure to ensure the available disk write speed is greater than the highest expected total data rate may result in frames being dropped from recordings (ISO, Replay, and Record-to-Disk).

Best Practices (cont.)

Hardware accelerated encoding requirements:

- Intel Quick Sync Video encoding requires an Intel CPU with an Intel® QuickSync Video core.
[List of Intel CPUs supporting QuickSync](#)
- NVIDIA NVENC encoding requires an NVidia GPU with Kepler architecture or newer.
[NVIDIA only maintains a general list of supported GPUs](#)
- Apple Hardware Accelerated H.264 encoding requires a Mac with an integrated Intel GPU*.
**This may change in the future, as the Apple API decides what hardware acceleration method is to be used. At the time of this writing, only Quick Sync via an Intel GPU is supported.*

High frame-rate streaming (60fps):

- High frame-rate streaming will result in increased CPU usage and require a higher bit rate (4Mbps or higher) for a quality encode.
- Simply switching to a higher frame-rate without ensuring the CPU and bitrate are sufficient may result in a lower quality encode.

CPU Usage:

- Consider lowering your canvas frame rate and/or streaming resolution to lower CPU usage.
- Maintained system CPU usage greater than 60% will increase the likelihood of dropped frames.

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12.2 – New Features

NEW – NDI ISO Recording and Replay

- Wirecast can now record independent NDI source feeds (ISO recording of NDI feeds). This also enables the use of NDI sources for instant replay.

12.2 – Improvements

- Improvement – Double click volume slider to set volume level to 0db
- Improvement – Improve name reporting of Facebook Location Pages
- Improvement – Reset button for Crop Controls in Shot Layer Properties
- Improvement – Update notification dialog to inform users if the update can be ran given their support status
- Improvement – Update the error message for Stock Media when support is expired
- Improvement – Update the NDI SDK to the latest 3.8 version
- Improvement – When adding a shot from 'Edit' Menu allow the user an easier way to add a source

12.2 – Fixes

- Fixed – Add additional logging to diagnose timestamp issues in RTMP outputs
- Fixed – Adding an NDI source from VLC the video output is missing with certain sources
- Fixed – Ampersand incorrectly displayed on the Controllers Tab in Preferences
- Fixed – Audio looping when NDI Sources become unavailable
- Fixed – Blackmagic Devices through NDI not available in Wirecast
- Fixed – Changing the graphics adapter then clicking restart causes indefinite hang
- Fixed – Changing the system language and locale to certain languages will cause the preferences to reset at startup
- Fixed – Colorspace dropdown is hidden when a source switches from RGB to YUV
- Fixed – Crash changing Canvas Size
- Fixed – Crash choosing Replay destination folder after adding duplicate Shortcut
- Fixed – Crash when opening a Wirecast document with specific Text Sources
- Fixed – Crash when reaching the Twitter/Periscope authorization timeout
- Fixed – Custom Presets are not available when using platform presets
- Fixed – Dynamic Destination Protocol: x264_preset not respected
- Fixed – Improper capitalization in lead sentence in Stock Media Library warning message
- Fixed – Improper layout when expanding the Add Shot dialog box
- Fixed – Improper layout when resizing the Stock Media dialog box
- Fixed – Improve LinkedIn Live failure logging

- Fixed – Incorrect frame rate streaming to Wowza
- Fixed – Korean Language - Web Stream configuration fields missing
- Fixed – Labels swapped for shadow interface settings
- Fixed – LinkedIn Live - Streaming to an organization then creating a broadcast as member results in server error
- Fixed – LinkedIn Live - Switching between accounts does not refresh organizations popup
- Fixed – LinkedIn Live - Unable to create a broadcast after finishing a broadcast
- Fixed – Japanese: Incorrect formatting of a hyperlink on the Welcome to Wirecast screen
- Fixed – Japanese: Incorrect translation for "Tip of the Day"
- Fixed – Memory leaks while looping video
- Fixed – Multi-Viewer Config Window shows incorrect resolution when a monitor is scaled at 200%
- Fixed – NDI - Tampered Network Traffic with NDI Source causes Wirecast to crash
- Fixed – Selecting the low bandwidth option results in bad video
- Fixed – Out of process Task Sources will not display at full refresh rate in the multi-viewer until the source enters Preview/Live
- Fixed – Odd license behavior when you select "Buy Wirecast" then close the purchase window
- Fixed – QR Code inverted
- Fixed – Remote rendezvous guest still hears audio from the microphone at full volume level
- Fixed – Show the correct error message when entering a blacklisted serial
- Fixed – Show the correct error message when entering an invalid serial
- Fixed – Show the correct error message when exceeding the activation limit
- Fixed – Stock Media Library: License tab of Preferences should indicate support date is also for SML
- Fixed – Stock Media Library no character limit or restriction in search box.
- Fixed – Support Restream.IO Chat in Web Page shot
- Fixed – Text: Shadow Checkbox does not retain state
- Fixed – Trial License does not allow certain PRO audio features
- Fixed – Web Page source not animating, just static images
- Fixed – Windows Media Server port number does not change
- Fixed – Wirecast crashed when changing output audio device on macOS
- Fixed – Wirecast One MBP Touch Bar displays five layers
- Fixed – Wowza Stream Engine Logs report incorrect frame rate metadata
- Fixed – XKEYS - Transition indicator lights are backwards unless the default transitions are used

12.1.1 – Fixes

- Fixed – Microsoft Stream destination filter rejects valid custom domains
- Fixed – QR Code does not work

- Fixed – Rare crash with certain Blackmagic devices on macOS
- Fixed – Removed CEF from YouTube destination authentication workflow
- Fixed – Rendezvous Guest stops receiving video after changing the camera or microphone
- Fixed – Rendezvous Guest tally lights do not work
- Fixed – RSS Feeds do not work
- Fixed – Unable to change active shot with AppleScript

12.1 – New Features

NEW – Wirecast One

- New tier of Wirecast now available!
- Wirecast One is the most affordable way to get your first streams up and running while harnessing the power and ease of use Wirecast is known for. With a single camera input and easy streaming to your preferred destination, Wirecast One covers all the basics for your first stream and is powerful enough for your 1000th!
- Wirecast One can be used by beginner streamers all the way up to the veterans of live video, but it is perfect for streaming to social media websites like Facebook or Twitter, and all your live streams from casual events to the most professional productions.
- For a comprehensive comparison of One, Studio, and Pro, please [visit our Buy page](#).

NEW – LinkedIn Live

- **Attention:** LinkedIn Live is currently invite only, via LinkedIn.
 - **Link to LinkedIn application process can be found within Wirecast Output Settings with LinkedIn Live chosen as the destination.**
 - **Alternatively, you can apply directly by clicking [here](#).**
- With LinkedIn's new Live offering, you can now stream directly to your LinkedIn network.
 - Your LinkedIn network will receive an alert when you go live.

NEW – Facebook Donation Button for Verified Pages

- Now, Wirecast users with a verified page can enable the donation button for viewers of the stream.
- In Wirecast, simply go to the advanced section of the Facebook Live output settings, log in with credentials to a verified Facebook page, check “Show Donation Button”, and enter the Facebook Charity ID.
 - **For more details regarding Facebook Donation eligibility, [read here](#).**

12.1 - Improvements

- Improvement – Add “Remind me later” option to the Wirecast Support Renewal nag page
- Improvement - Implement preference for disabling unlicensed functionality

12.1 - Fixes

- Fixed - 404 returned when requesting help from the Encoder Presets window
- Fixed - Add Patios for LinkedIn Live Broadcast has ended alert message
- Fixed - Adding a VLC NDI source to the document causes a crash on Windows
- Fixed - Alpha issues with TL4 via NDI in WC12
- Fixed - Always allow change user option in Facebook log-in
- Fixed - Audio artifacts in Blackmagic and Magewell sources
- Fixed - Build In / Build Out elements don't move proportionally
- Fixed - Cannot select Cut or Smooth from transitions dropdown menu after update
- Fixed - Check mark icon does not show for options within the Matte drop down menu
- Fixed - Clicking "Crosspost Settings" crashes Wirecast
- Fixed - Entering a place prevents FB destination from recognizing verified pages
- Fixed - Frozen video and synchronization problems when connecting to NDI sources in secondary documents
- Fixed - Localization Mac OS: Stock Media Library download button cut off in localized versions
- Fixed - Localization Windows OS: Stock Media Library cancel button cut off in localized versions
- Fixed - Localization: "Primary Sound Driver" does not display properly.
- Fixed - Memory leak/crash over time, ingesting 10 IP web streams
- Fixed - Missing space on the Software Update Tab in Preferences
- Fixed - NDI Sources remain in the add Source Dialog after being disconnected
- Fixed - NDI buffer delay
- Fixed - RTMPS output via Microsoft Azure destination does not work
- Fixed - Removing an AVCapture source from the Rendezvous mix causes the audio to be removed from the Live Output mix if it is also in the Live Canvas
- Fixed - Stock Media Library: Placeholder text shows when trying to select a folder to download Stock Media files to
- Fixed - Titler Live NDI Shot events do not work
- Fixed - Trademark not present beside "Wirecast" when licensed
- Fixed - Two browser tabs are spawned when selecting "MIDI forum" from Preferences
- Fixed - Unable to use 3D Plane transition in Wirecast 12.
- Fixed - Web stream URI and Username input boxes appear as if they are the same input box
- Fixed - Webstream HLS source video freezes after several hours

- Fixed - Windows: Rendezvous Audio Mixer shows a blank drop down menu until an option is selected
- Fixed - Wirecast Crashed when selecting a youtube event
- Fixed - Wirecast EULA showing odd characters in section 2.6
- Fixed - Wirecast Preferences do not save when computer language is set to Russian
- Fixed - Wirecast crashed when editing changes in audio mixer

12.0.1 – Fixes

- Fixed – Dib.dll missing error when upgrading from Wirecast 11.1.2 to Wirecast 12.0 in specific circumstances.

12.0 – New Features

NEW – Stock Media Library

- Now included with every active support subscription, the new Stock Media Library adds a growing database of over 500,000 unique, high quality media assets to your projects.
- A new custom-built portal gives you direct access to transitions, motion backgrounds, royalty-free backing tracks, and videos from right within Wirecast.
- Select the new Media Files category in the Add Source dialog and choose Stock Media Library.

NEW – Stinger (Custom Transitions) Playback Speed Controls

- Spice up your stinger transitions using the new Stock Media Library, which contains transition files.
- New speed controls allow you to adjust the timing of your stinger transitions, and an additional transition bank gives you more options for live production.

NEW – Rendezvous Audio Mixing

- In the Rendezvous dashboard, you can now create a custom audio mix to be sent to your Rendezvous guests.
- Studio license level will allow you to select the devices to mix.
- Pro license levels will grant you the ability to select individual channels from audio devices to be mixed.

NEW – QR Code Generator Source

- Want to give your audience quick access to a custom link within your stream? Just create a QR code that your audience can scan! Copy your link into the new QR Code Generator and Wirecast will create a scannable image to broadcast to your fans.

- Select the Overlays category in the Add Source dialog and choose QR Code Generator.

12.0 – Improvements

- Improvement – Add ability to configure the number of transition banks in the Preferences
- Improvement – Add ability to continuously read a text file in the Text Source Properties
- Improvement – Allow users to configure the playback speed of Stinger Transitions
- Improvement – Display the Facebook Page of Scheduled events in the Facebook Destination Output Settings
- Improvement – Enable NVENC High Profile in Encoder settings
- Improvement – Expose all options in Facebook Live Polls
- Improvement – Update CEF to version 3578
- Improvement - Update to NDI SDK v.3.8

12.0 – Fixes

- Fixed – Add better error messaging when the GPU does not support Direct X 11
- Fixed – Adding a Direct Show audio device to the document causes duplicate sources to appear in the Rendezvous Dashboard
- Fixed - After attempting to activate an old license, any subsequent invalid license activation attempts show an incorrect error message
- Fixed – Audio from Multi-Channel Sources is not heard in the Rendezvous call when sending the Live Output audio track
- Fixed – Build-In/Build-Out elements don't move proportionally
- Fixed – Certain stinger transitions can appear doubled and stretched
- Fixed - Change Audio right-click menu text is hard to read text
- Fixed – Change the wording for missing Stinger Transitions
- Fixed - Changing the playback speed of a stinger transition pauses it without updating the pause/play button
- Fixed - Clicking X in the Add Source Dialog adds any selected sources to the document on Windows
- Fixed - Clock System Fonts missing font picker dialog
- Fixed – Crash when adding a Stinger Transition on Windows 7 with an AMD GPU
- Fixed - Facebook Scheduled events list fails to be read properly in some cases
- Fixed - Fixed bad alignment in Teradek StreamReader Properties page
- Fixed - Hang when selecting a Stinger Transition then immediately using the transition
- Fixed – IP camera frame glitch
- Fixed - Midi controller volume slider control skips from 99% to 101%
- Fixed – NDI detection is disabled when disabling IP Camera discovery

- Fixed - Opening a new document during a stream caused Wirecast to Crash after disconnecting from a Rendezvous Session
- Fixed - Periscope Destination Schedules Event and Tweets even if Destination is Disabled
- Fixed – PTZ IP Port field does not update after switching to a PTZ profile that uses a required IP port
- Fixed – Random crash during a Rendezvous Session
- Fixed – Random crash when a document has disconnected sources
- Fixed – Random hang when switching sources
- Fixed – Rare hang that can occur on Windows
- Fixed - Remove Facebook donation button from Profiles (not supported by Facebook)
- Fixed – Remove Shutdown when not live from Clock and Solid Color sources
- Fixed - Security Warning Preventing Facebook Live Authentication on certain 4G networks
- Fixed – Streaming to Ustream causes a hang on macOS Mojave
- Fixed - Switching Destinations from Facebook User Code While Authenticating Disables OK Button
- Fixed - Telestream Cloud Restream output out of sync when started after another output
- Fixed – Unable to capture video from Osprey 900 series capture cards
- Fixed – Unable to create a Scheduled YouTube Event
- Fixed - Unable to delete Scheduled Events on Profiles
- Fixed - Unable to stream to certain RTMP servers on macOS Mojave
- Fixed - Unable to use ScreenFlow screen record with record PC audio selected while running Rendezvous Session
- Fixed - Virtual Mic audio distortion in Zoom
- Fixed –Unable to remove Live Output from the Rendezvous mix

Known Issues

- MacOS – Adding more than one PTZOptics NDI connection to a single machine (regardless of the connecting application) can cause a crash in the application that is the second to connect.
 - Workaround 1 – Disable Multicast
 - Go to the PTZOptics camera admin webpage.
 - Go to the Network Section.
 - Disable Multicast
 - Reboot the camera using the System page.
 - Workaround 2 – Use RTSP instead of NDI
 - Use the newly rewritten WebStream plugin in Wirecast to connect to the RTSP stream.
 - The URL for this stream can be found in your PTZOptics camera’s documentation or admin webpage.
- Windows 7 – Certain 4K/UHD H.264 video files in the Stock Media Library are not supported.

- Animated PNG movies from the Stock Media Library can experience poor playback or dropped frames
- Setting the audio output device to 44.1 KHz or 96 KHz can cause audio noise to occur in the monitor. Does not affect the broadcast or recorded output.
- NDI – Stopping NDI output can stop all NDI outputs on the same machine. This is resolved by updating to the latest version of NDI Tools.