
TOA JUST:LIVE BOILERPLATE

**Additional information about the just:live Live Production Playout solution.
To be used for RFI, RFP or Web Shop descriptions.**

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1 Change Log:

Date	Version	Changed by	Changes
14.10.2024	1.4	MGR	Updates/changes: <ul style="list-style-type: none"> Updated feature set and compatibility matrix for macOS Sequoia Added Workflow Diagram
02.09.2024	1.3	MGR	Updates/changes: Updated specifications and descriptions to reflect the current software release.
27.07.2024	1.2	MGR	Updates/changes: <ul style="list-style-type: none"> Updated TOC Sections for better readability Revised descriptions for better readability Updated specifications and descriptions to reflect the current software release.
12.09.2020	1.1	MGR	Updates/changes: <ul style="list-style-type: none"> Updated TOC Sections for better readability Revised descriptions for better readability
13.07.2020	1.0	MGR	Initial Draft

2 Product Description just:live

2.1 Title:

ToolsOnAir **just:live** – Single Channel Live Production Payout Solution for video and real-time graphics (PCR) on macOS.

2.2 SKU:

Licenses: JLV-BVL, JLV-RFX, JLV-AFX, JLV-SFX, JLV-EVL

Options: RED-JLV, FOC-40, GPI-BOX (HW)

2.3 Ideal for:

- Native SD/HD/UHDp60 SDI, NDI®, SRT, UDP, ST-2110 Live Production Payout of video and multiple layers of static or real-time graphics (both TOA Internal and HTML Graphics).
- Mixed resolution payout back-to-back with Local or networked control.
- Manually operated video and graphics playlist rundowns.

2.4 Description:

just:live is a Single Channel Live Production Payout solution for video and static or real-time graphics. It is designed to run on macOS and to meet the fast-paced, time-critical demands of Live Production Payout, including news, sports, talk shows, and live events. **just:live** streamlines the payout of your on-air videos and real-time graphics in any Live Production situation while maintaining full control over the attributes of video files and real-time graphics files.

2.5 Concept:

just:live's intuitive and powerful user interface, within the unified control application for macOS called **Just Control**, enables broadcasters to manage the operated Live Production payout of videos. It also includes multiple layers of real-time graphics and router control/GPI events in a single interface. **just:live's** client-server architecture enables the concurrent payout control of single or even multiple channels using one control interface, namely **Just Control**.

2.6 Reliability & Flexibility:

just:lives's powerful user interface provides an unlimited, frame - accurate preview of all video items with the option to set new in- and out-points and the ability to split clips for commercial insertion.

With **just:live's** integrated timeline, operators can easily monitor the progress of currently playing clips, while simultaneously building a rundown sequence which can be operated by a single mouse-click. Each clip can have its own unique finished action, such as Play Next, Cue Next, Reload, Hold, Recue or Loop. **just:live** allows to overlay the pass-through live signal with video (with alpha channel) and real-time graphics without the need for an external video switcher by using the real-time input from qualified AJA or Blackmagic Design video devices. Up to a maximum of 7 video, 7 graphics (static and/or real-time) and 1 event layers (for external triggers) can be added independently to the base license.

For a traditional broadcast workflow, **just:live** delivers Key and Fill functionality (depending on the video hardware) to overlay graphics using an external switcher.

2.7 Video Quality & Real-Time Graphics:

just:live delivers the high-quality video and audio playout that you expect from a professional Live Production Playout solution with support for standard broadcast codecs/containers and SDI, HDMI, NDI®, SRT, UDP, ST-2110 I/O. Additionally, **just:live's** integrated playout engine provides back-to-back playout of mixed container formats, codecs, aspect ratios, pixel sizes and field orders as well as full support of Interactive real-time graphics which can be used to display live source data (i.e., news tickers, stock exchange, weather feeds).

The tight integration with **Composition Builder** – Tools On Air's graphics template creation application for macOS – enables pre-designed templates to be dropped into a graphics layer (on top of the video layer), allowing content changes to be made during the Live Production playout and delivered in real-time. Additionally, HTML Graphics are supported as well.

2.8 Product Deployment:

just:live is a true client-server capture solution for macOS. The deployment and configuration of the **just:live** playout solution is straightforward and intuitive and consists of three applications, which can either be installed and run as a standalone solution on a single machine or can get distributed on multiple macOS machines. Setups with video and simple graphics playout might choose the standalone variant, whereas multi-user and redundant setups will choose the client-server approach.

The **just:live** solution consists of the following applications for macOS:

- **Just Out:** the Playout Engine
- **Just Connect:** the Channel Manager
- **Just Control:** the Control application

and is installed, via Drag-and Drop from the DMG package, in the specific "**Applications**" folder of the corresponding macOS system. Additionally, the **Just Control** application has a configuration panel ("**Just Control Configuration**"), which is used to perform all **Channel** and **just:live**-related settings.

2.9 Key features:

- Full-featured SD, HD and UHDp60 Live Production Playout (PCR).
- SDI, HDMI, NDI®, SRT, UDP, ST-2110 I/O support.
- Client-Server application topology for either local or networked control.
- Manually controlled video and graphics playout & router event control. **just:live's** integrated timeline allows operators to build rundown sequences and monitor the progress of currently playing clips.
- Manage and control the playout of videos, multiple layers of real-time graphics and router control/GPI events manually, in **Just Control**, a single interface with multiuser support.
- Direct trim and split of movies Set in- and out-points, and split clips on-the-fly to insert commercials.
- Pre-built playlist rundown with Advanced finished actions (Play Next, Cue Next, Reload, Hold, Recue, and Loop).
- Up to seven layers of either static or TOA real-time graphics. Support for HTML Graphics (singular.live, SPX).
- Mixed resolution playout back-to-back.
- Slow motion movie playout.
- Live feed pass-through.
- List view and thumbnail view.
- Direct Trim and Split of movies
- Last-Minute changes for Graphics Templates built with the Composition builder application for macOS.
- N+1 and 2N redundancy and additional failover option available.

3 Technical Data:

3.1 Supported Codecs:

- DV-PAL
- DV/DVCPRO-NTSC
- DVCPRO, DVCPRO50, DVCPRO HD
- HDV
- All Apple ProRes Codecs
- HEVC (H.265)
- MPEG-2, MPEG-4, H.264
- XDCAM EX / HD / HD 422
- MPEG IMX (30/40/50)
- AVC-Intra
- XAVC-Intra
- Avid DNxHD®/Avid DNxHR® (decoder)
- JPEG
- Apple Animation Codec

Supported frame rates (specific): 23.976, 24, 25, 29.97, 30, 50, 59.94, 60

3.2 Supported Containers:

- MOV, MP4, M4V
- MXF
- MPG, MPEG, MPEG-TS

Supported frame rates (specific): 23.976, 24, 25, 29.97, 30, 50, 59.94, 60

4 System Requirements

- Apple Mac mini, Mac Studio, Mac Pro 2023 – Apple silicon hardware recommended.
- Latest versions of Apple macOS Ventura, macOS Sonoma and macOS Sequoia are recommended.
- Minimum of 16 GB RAM (Apple silicon)
- Support for qualified AJA and Blackmagic Design video devices
- For detailed system and hardware requirements, please consult the [online user manual](https://support.toolsonair.com) or contact ToolsOnAir at <https://support.toolsonair.com>

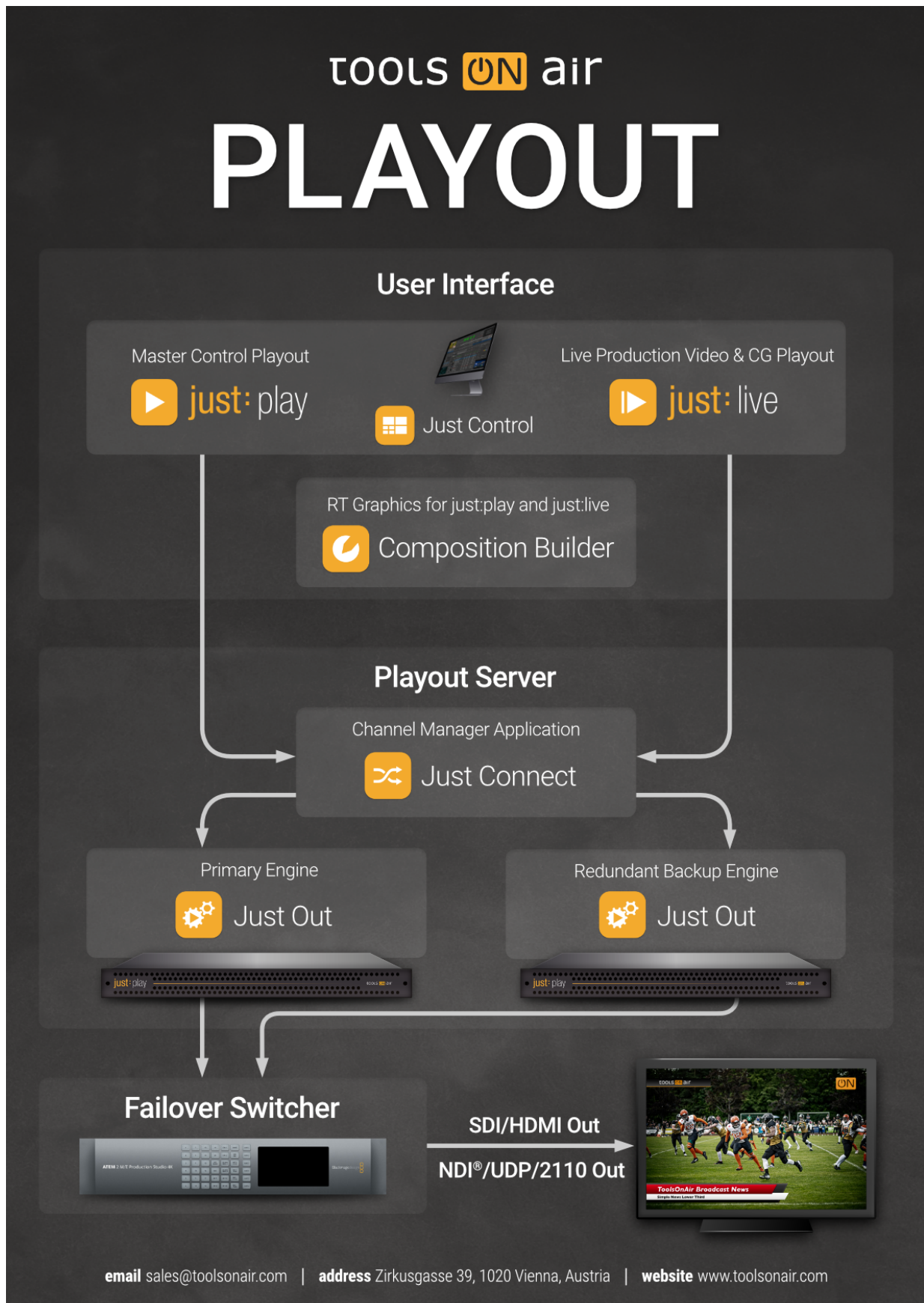
5 Compatibility Matrix

Version	macOS Sequoia (15.x)		macOS Sonoma (14.7.x)		macOS Ventura (13.7.x)		macOS Monterey (12.7.6)		macOS Big Sur (11.7.10)
5.5	Apple silicon		Apple silicon		Intel / Apple silicon		Intel / Apple silicon		Not available
	AJA	BMD	AJA	BMD	AJA	BMD	AJA	BMD	
	17.1.x	14.2.x	17.1.x	14.2.x	17.0.x	12.9	17.0.x	12.7.x	
Version	macOS Sonoma (14.7.x)		macOS Ventura (13.7.x)		macOS Monterey (12.7.6)		macOS Big Sur (11.7.10)		macOS Catalina (10.15.7)
5.1	Apple silicon		Intel / Apple silicon		Intel / Apple silicon		Not available		Not available
	AJA	BMD	AJA	BMD	AJA	BMD			
	17.1.x	12.9	17.0.x	12.9	17.0.x	12.7.x			
Version	macOS Sonoma (14.7.x)		macOS Ventura (13.7.x)		macOS Monterey (12.7.6)		macOS Big Sur (11.7.10)		macOS Catalina (10.15.7)
4.1/4.2	Upgrade to Version 5.0		Intel / Apple silicon		Intel / Apple silicon		Intel / Apple silicon		macOS Catalina Support on request.
			AJA	BMD	AJA	BMD	AJA	BMD	
			16.2.6	12.9	16.2.6	12.7.x	16.2.6	12.4.0	
Version	macOS Ventura (13.7.x)		macOS Monterey (12.7.6)		macOS Big Sur (11.7.10)		macOS Catalina (10.15.7)		macOS Mojave (10.14.6)
4.0	Update to Version 4.2		Intel / Apple silicon		Intel / Apple silicon		Intel		Not available
			AJA	BMD	AJA	BMD	AJA	BMD	
			16.2.6	12.7.x	16.2.6	12.4.0	16.2.6	12.1	
Version	macOS Ventura (13.7.x)		macOS Monterey (12.7.6)		macOS Big Sur (11.7.10)		macOS Catalina (10.15.7)		macOS Mojave (10.14.6)
3.5	Upgrade to Version 4.2		Intel / Apple silicon		Intel		Intel		Not available
			AJA	BMD	AJA	BMD	AJA	BMD	
			16.2	12.2	16.0.3	12.1	16.0	12.1	
Version	macOS Ventura (13.7.x)		macOS Monterey (12.7.6)		macOS Big Sur (11.7.10)		macOS Catalina (10.15.7)		macOS Mojave (10.14.6)
3.1	Upgrade to Version 4.2		Intel		Intel		Intel		Not available
			AJA	BMD	AJA	BMD	AJA	BMD	
			16.2	12.2	16.0.3	12.1	16.0	12.1	
Version	macOS Ventura (13.7.x)		macOS Monterey (12.7.6)		macOS Big Sur (11.7.10)		macOS Catalina (10.15.7)		macOS Mojave (10.14.6)
3.0	Upgrade to Version 4.2		Upgrade to Version 4.2		Upgrade to Version 4.2		Intel		Not available
							AJA	BMD	
							16.0	12.1	
Version	macOS Ventura (13.7.x)		macOS Monterey (12.7.6)		macOS Big Sur (11.7.10)		macOS Catalina (10.15.7)		macOS Mojave (10.14.6)
2.7-2.8	Upgrade to Version 4.2		Upgrade to Version 4.2		Upgrade to Version 4.2		Upgrade to Version 4.0		Intel
									AJA
									16.0
									BMD
									12.1

6 Workflow Diagram:



7 Workflow Overview:



8 Related links and additional information:

ToolsOnAir Solutions Overview:

<https://www.toolsonair.com/wp-content/uploads/overview.pdf>

just:live Landing Page:

<https://www.toolsonair.com/products/playout/justlive/>

just:live Datasheet:

<https://www.toolsonair.com/wp-content/uploads/datasheet.pdf>

just:live Manuals:

<https://toolsonair.atlassian.net/wiki/spaces/TST/pages/3580592129/just+live+just+play+v.5.0+v.5.1+v.5.5>

just:live Tutorial Videos:

https://www.youtube.com/playlist?list=PLicnJKzn2pLI_ludJt1F5KKYILs0lQtAQ