
TOA JUST:PLAY BOILERPLATE

**Additional information about the just:play 24/7 automated Master Control Playout solution.
To be used for RFI, RFP or Web Shop descriptions.**

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Table of Contents

1	CHANGE LOG.....	3
2	PRODUCT DESCRIPTION JUST:PLAY	4
2.1	Title:.....	4
2.2	SKU:	4
2.3	Ideal for:.....	4
2.4	Description:	4
2.5	Concept:.....	4
2.6	Reliability & Flexibility	4
2.7	Video Quality & Real-Time Graphics:.....	5
2.8	Product Deployment:	5
2.9	Key Features:	5
2.10	Key Features (Detailed):	Error! Bookmark not defined.
3	TECHNICAL DATA:	6
3.1	Supported Codecs:.....	6
3.2	Supported Containers:.....	6
4	SYSTEM REQUIREMENTS	6
5	WORKFLOW DIAGRAM:	7
6	COMPATIBILITY MATRIX	ERROR! BOOKMARK NOT DEFINED.
7	RELATED LINKS AND ADDITIONAL INFORMATION:	10

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:play

2.1 Title:

ToolsOnAir **just:play** – Single Channel Automated 24/7 Master Control Playout Solution with real-time graphics (MCR) on macOS.

2.2 SKU:

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

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

2.3 Ideal for:

- Full-featured SD/HD/UHDp60 SDI, NDI®, SRT, UDP, ST-2110 24/7 automated Master Control Playout of video and multiple layers of static or real-time graphics (both TOA Internal and HTML Graphics).
- Schedule content weeks in advance with metadata support and a convenient calendar function.
- Live feed and real-time data insertion.
- Watch Folder functionality.
- N+1 and 2N redundancy.

2.4 Description:

just:play is a Single Channel automated 24/7 Master Control playout solution with SD, HD and UHD format support, seamlessly integrating live feeds and routers as well as GPI events and real-time graphics. **just:play** is designed to meet the automated 24/7 Master Control playout demands of TV stations, with state-of-the-art scheduling, live input switching, streaming output and template based real-time graphics capabilities. Given its industry standard client-server architecture, **just:play** is an ideal 24/7 Master Control playout solution, combining top-notch usability and industry-standard system reliability.

2.5 Concept:

Featuring an intuitive user interface, **just:play** empowers broadcasters to efficiently schedule and manage their playout, even while a clip is already on-air and with an unlimited number of users working concurrently on the same Channel. **just:play's** intuitive, timeline-based interface, enables users to schedule content days or even weeks in advance, while providing a traditional list view with extensive metadata support. **just:play's** client-server architecture enables the concurrent playout control of single or even multiple channels using one control interface, namely **Just Control**.

2.6 Reliability & Flexibility

just:play's intuitive and powerful user interface, within the unified control application for macOS called **Just Control**, provides an unlimited, frame accurate review and preview of all scheduled video items. **just:play** provides full control of the rundown at any time during the scheduling process. Gaps and overlays are readily discernible, as **just:play's** playlist-based design facilitates the organization of the rundown. Schedules can be planned and executed weeks in advance, enabling completely unattended remote operation. Up to a maximum of 7 video, 7 graphics (static and/or real-time) and 1 event layers (external triggers) can be added independently to the base license.

2.7 Video Quality & Real-Time Graphics:

just:play delivers the high-quality video and audio playout you expect from a professional Master Control Playout Solution with support for standard broadcast codecs and containers and SDI, HDMI, NDI®, SRT, UDP, ST-2110 I/O. Interactive real-time graphics can be used to display live source data (i.e., news tickers, stock exchange, weather feeds) and **just:play** composes them with video files or inputs to be played out over SDI, HDMI or NDI®, SRT, UDP, ST-2110 streams, including VANC data. Additionally, it also supports the import of a wide variety of industry standard playlists using XML.

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 Master Control playout and delivered in real-time. Additionally, HTML Graphics are supported as well.

2.8 Product Deployment:

just:play is a true client-server capture solution for macOS. The deployment and configuration of the **just:play** 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:play** 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:play**-related settings.

2.9 Key Features:

- Full-featured SD, HD and UHDp60 automated 24/7 Master Control Playout (MCR).
- SDI, HDMI, NDI®, SRT, UDP, ST-2110 I/O support.
- Client-Server application topology for either local or networked control.
- Ability to control several playout Channels using one control application, namely **Just Control**.
- Mixed codec, aspect ratio and resolution playout up to 7 layers of both video and real-time graphics. Support for HTML Graphics (singular.live, SPX and many more).
- Automatic scheduling update and Frame accurate restart after a power failure.
- Default gap playlist and Custom playlist import.
- Sync point to easily identify “overs” and “unders” of important video start times.
- Advanced User Right and Repository Folder Management.
- Auto-sync (A/V) functionality.
- Real-time data insertion, Watch Folder and flexible As-Run Log functionality.
- Built-in ON AIR window and dedicated Playout preview function.
- Built-in Switch-to-Live and Live feed pass-through functionality.
- N+1 and 2N redundancy, with additional failover option available.
- Native router control, GPI out and Event-based external device triggering.

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

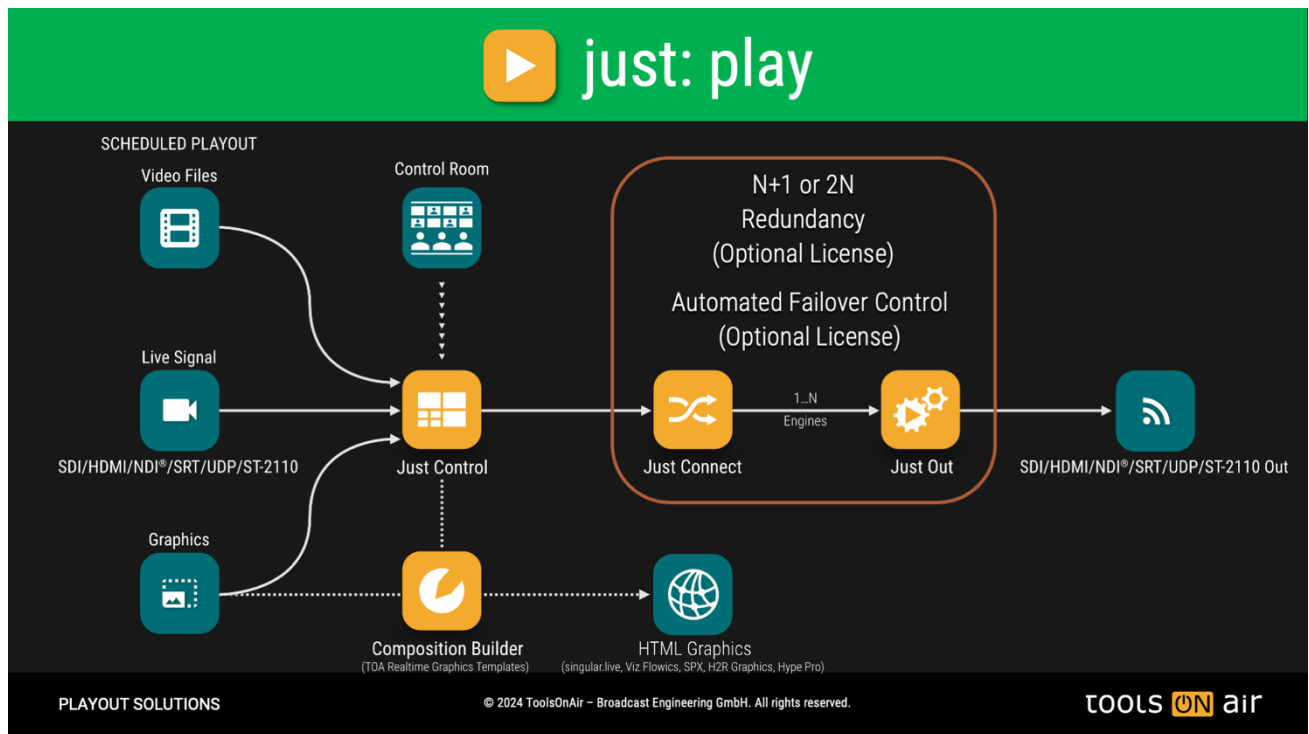
4 System Requirements

- 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>

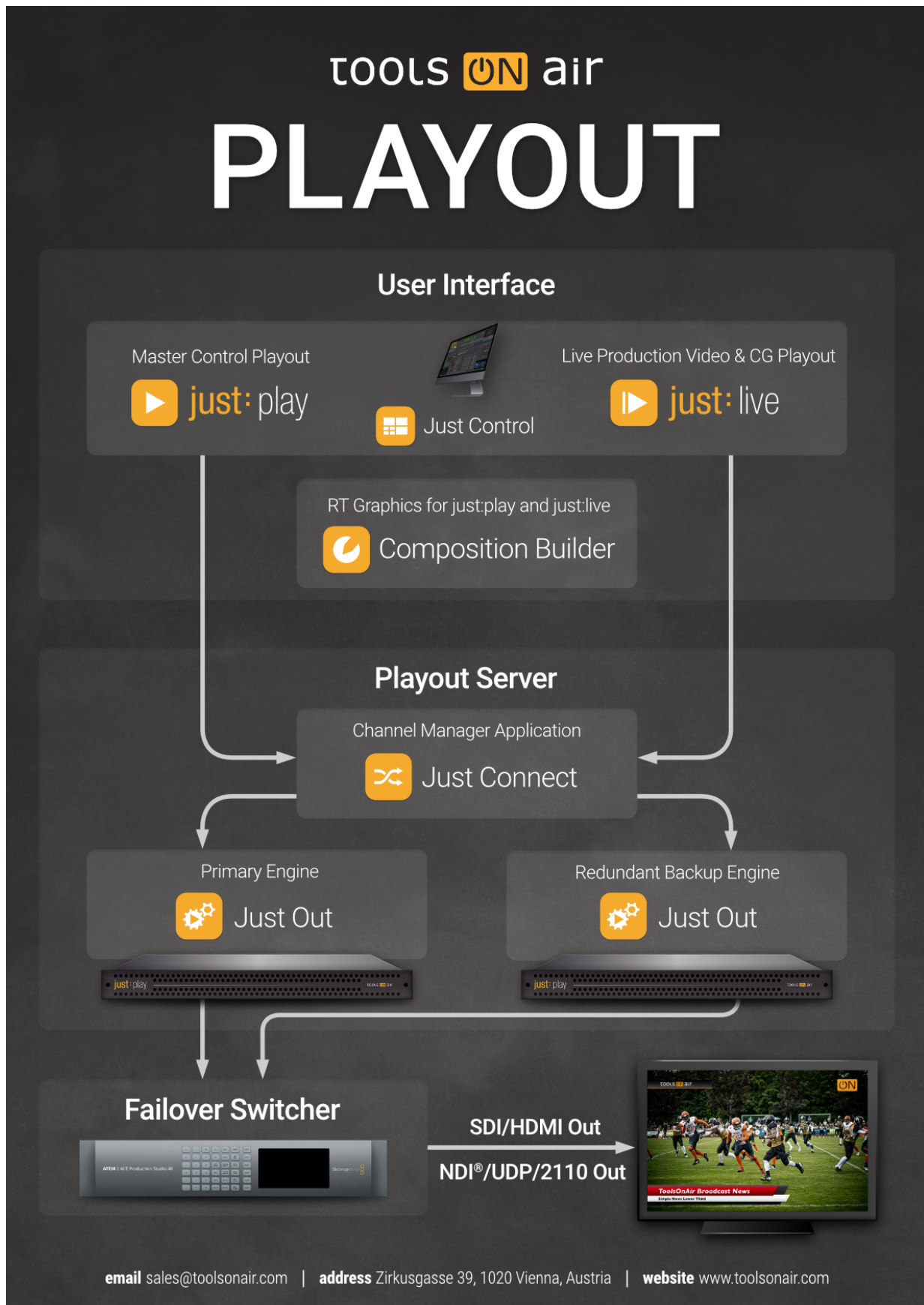
5 Compatibility Matrix

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:play Landing Page:

<https://www.toolsonair.com/products/payout/justplay/>

just:play Datasheet:

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

just:play Manuals:

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

just:play Tutorial Videos:

https://www.youtube.com/playlist?list=PLicnJKzn2pLL_ludJt1F5KKYILs0lQtAQ