

MOSAIC 1.0

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1. ABOUT dCS MOSAIC

1.1 PRODUCT DESCRIPTION

dCS Mosaic is a carefully assembled collection of hardware and software modules which, when combined, provide a listener easy and intuitive access to a vast catalogue of digital music. Whether it's high resolution files on the listener's own server or an internet radio station broadcast from a distant land, dCS Mosaic removes all of the associated technical complexity and ensures that the music one loves is only a few convenient taps away.

1.2 COMPONENTS

To familiarise you with the naming convention of the Mosaic components a brief description of each is included below:

Component	Description
dCS Mosaic	<i>dCS Mosaic is the product name for the audio streaming and networked control functionality of dCS products.</i>
dCS Mosaic Control	<i>dCS Mosaic Control is the name of the new dCS unified music management and control app. It supports both iOS and Android devices.</i>
dCS Mosaic Processor	The dCS Mosaic Processor is the physical hardware component and associated software that is installed in the dCS product to provide streaming functionality.

1.3 VERSIONS

When installed, dCS Mosaic will reflect the following software versions in dCS Mosaic Control on the about page (*Settings > Support > About dCS Mosaic*):

dCS Mosaic Processor Version: 1.0.0 (500)
dCS Mosaic Control Version: 1.0.0 (37)

The dCS Product's front panel will show the following under VERSIONS:

Network: 500

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1.4 AVAILABILITY AND DISTRIBUTION

Version 1.0 of *dCS* Mosaic represents the re-engineering of the *dCS* streaming audio functionality and is designed to run on all current *dCS* network-enabled products. Key points related to availability are as follows:

- Mosaic 1.0 will be available to all customers on 9th May 2019 at 9:00am GMT
- Mosaic 1.0 will be delivered as a new control app along with a device firmware update
- Mosaic 1.0 will be provided at no cost to owners of current *dCS* products
- Customers will need to download a new app (*dCS* Mosaic Control) from either the App Store or Google Play
- Customers will need to perform a network update of their *dCS* product.

1.5 KEY FEATURES

dCS Mosaic is an extensive suite of technologies that work in unison to remove the complexities associated with multi-format and multi-source streaming audio. Key features include:

- Browse a variety of streaming media sources via an intuitive interface in order to find digital music content.
- Perform content searches based on artist, album, track, or playlist name.
- Interact with advanced features provided by some streaming services such as favourites, playlists, and enhanced metadata.
- Add tracks from any source to a unified playback queue which can be reordered at will.
- View detailed information about the currently playing track including metadata, artwork, playback position and media format.
- Perform basic playback functions such as play/pause, skip forward/back, shuffle, and repeat.
- Conveniently manage the basic audio settings of a *dCS* device such as volume level, mute, and phase.
- View and manage all settings related to the digital signal processing being performed by the *dCS* device.
- View and manage the complete configuration of the *dCS* device.
- Control all accessible *dCS* devices from the *dCS* Mosaic Control app.
- Utilize Roon as a media management platform with Mosaic as a Roon Ready zone.
- Cast content to *dCS* devices using Airplay and Spotify Connect.

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2. SPECIFICATIONS

2.1 SUPPORTED *dCS* PRODUCTS

dCS Mosaic Processor 1.0 is available as a firmware update and is supported on the following *dCS* products with the minimum firmware revisions listed.

dCS Product	Minimum Firmware Revision
dCS Network Bridge	Main Board 1.02
dCS Bartók	Main Board 1.00
dCS Rossini	Main Board 2.00
dCS Vivaldi One	CB: 1.11, FP: 1.10, IB: 1.10
dCS Vivaldi Upsampler 2.0	CB: 2.10, FP: 2.10, IB: 2.10

2.2 SUPPORTED CONTROL DEVICES

The *dCS* Mosaic Control app is available for the following mobile devices

Mobile Device	Minimum Hardware	Minimum OS
Apple iPhone	iPhone 5S	iOS 11.x
Apple iPod	iPod touch 6 th Generation	iOS 11.x
Apple iPad	iPad Mini 2	iOS 11.x
Android Phone	N/A	Android 6.x
Android Tablet	N/A	Android 6.x

2.3 SUPPORTED MEDIA SOURCES

dCS Mosaic is suite of tools designed to alleviate the complexity of digital audio streaming so a *dCS* customer can simply enjoy listening to music. In order to provide an uncompromising user experience, we have limited our official support to the following media sources detailed below. Other combinations of apps and sources may work, but they are not directly supported by *dCS*.

dCS Mosaic supports digital music streams from the following sources when the *dCS* device is controlled with the *dCS* Mosaic Control app:

- UPnP (in conjunction with Miniserver)
- USB storage attached to the *dCS* device
- Deezer Hi-Fi
- Qobuz
- TIDAL
- Internet radio (provided by the *airable.radio* catalogue)
- Podcasts (provided by the *airable.show* catalogue)

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In addition to the above, the following streaming sources are supported without the use of the *dCS* Mosaic Control app:

- Airplay
- Spotify Connect
- Roon

2.4 SUPPORTED MEDIA FORMATS

Files and media streams in the following formats are fully supported by *dCS* Mosaic:

Stream Format	Stream Type
PCM (lossless)	WAV, AIFF, FLAC, ALAC
PCM (lossy)	MP3, AAC
DSD	DFF, DSF
MQA	FLAC with proper MQA tagging

2.5 SPECIFIC EXCLUSIONS

The following features may have been available in past *dCS* streaming offerings but have been excluded from the first release of *dCS* Mosaic. The status of these features is detailed below.

- Control of a *dCS* disc transport is not available in version 1.0 via *dCS* Mosaic Control. App control is still available using the legacy *dCS* app.
- Grid-based browsing is not available in Mosaic 1.0.
- On-device stored playlists are not available via the *dCS* Mosaic app. Legacy playlist support is available via the legacy app.
- Navigation bookmarks are not available in Mosaic 1.0.
- Mosaic does not support TiVo / Rovi enhanced metadata.
- Mosaic does not support OGG or WMA file formats.

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3. NEW FEATURES IN *dCS* MOSAIC 1.0

While many of the features of *dCS* Mosaic are held in common with prior *dCS* offerings, the following enhancements are new to Mosaic.

***dCS* Mosaic Control is available for Android and iOS**

dCS Mosaic supports Android version 6.0 and later, iOS 11 and later so now the full features and experience of *dCS* network streaming products can be enjoyed by owners of Android and Apple devices alike.

***dCS* Mosaic Control, a single application for all *dCS* streaming products**

Owners of multiple *dCS* products can now control any *dCS* device using a single application.

TIDAL, Spotify, Qobuz and Deezer

dCS Mosaic allows customers to enjoy their choice of music streaming services

Internet Radio

dCS Mosaic allows *dCS* customers and their family to tune in to thousands of radio stations from across the globe.

Podcasts

dCS Mosaic allows *dCS* customers and their families to enjoy thousands of podcasts covering almost every subject matter.

Improved user experience

dCS Mosaic Control provides a class-leading user experience that surpasses competing products in terms of user interface, performance, and stability.

Advanced Technology

dCS Mosaic Control is based on truly cutting-edge app development technology which reaffirms our position as a leader in digital audio engineering!

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