

[Updates](#) / AVFoundation updates

Article

AVFoundation updates

Learn about important changes to AVFoundation.



Overview

Browse notable changes in [AVFoundation](#).

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Assets

- Preserve HDR data when generating images with `AVAssetImageGenerator` by setting the value of its `dynamicRangePolicy` property to match the source video.
- Export media asynchronously using the `export(to:as:isolation:)` method of `AVAssetExportSession`. You can monitor the progress of an export by calling the `states(updateInterval:)` method and awaiting its results.
- Determine whether an `AVURLAsset` decodes its data using a Media Extension by inspecting its `mediaExtensionProperties` property.

Camera

- Show your camera app on the Lock Screen by adopting the `LockedCameraCapture` framework.
- Capture photos in constant color by configuring a photo output's `isConstantColorEnabled` property.
- Continue background audio playback while performing audio and video capture by enabling a capture session's `configuresApplicationAudioSessionToMixWithOthers` property.

- Pause and resume video recording in iOS when using [AVCaptureFileOutput](#).
- Support enhanced video stabilization using [AVCaptureVideoStabilizationMode.cinematicExtendedEnhanced](#).
- Configure a capture device to automatically adjust its frame rate based on lighting conditions by enabling its [isAutoVideoFrameRateEnabled](#) property.
- Configure a capture device to replace background content in macOS by enabling its [isBackgroundReplacementEnabled](#) property.

Playback

- Build playback apps using the latest Swift Concurrency features due to enhanced [Sendable](#) adoption throughout the playback APIs.
- Capture performance and playback metrics using [AVMetrics](#).
- Receive rendered captions for the currently playing media using [AVPlayerItemRenderedLegibleOutput](#).
- Simplify handling of interstitial content by using [AVPlayerItemIntegratedTimeline](#).
- Send Common Media Client Data (CMCD) as HTTP headers by enabling the new [sendsCommonMediaClientDataAsHTTPHeaders](#) property on [AVAssetResourceLoader](#).

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Learn about important changes in Background Tasks.