
QTCaptureDecompressedAudioOutput Class Reference

[Audio & Video: Audio](#)



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QTCaptureDecompressedAudioOutput Class Reference

Inherits from	QTCaptureOutput : NSObject
Conforms to	NSObject (NSObject)
Framework	/System/Library/Frameworks/QTKit.framework
Availability	Available in QuickTime 7.6.3 and later.
Declared in	QTCaptureDecompressedAudioOutput.h

Overview

This class represents an output destination for a `QTCaptureSession` object that can be used to process audio sample buffers from the audio being captured. Instances of `QTCaptureDecompressedAudioOutput` produce audio sample buffers suitable for custom high-quality realtime processing. Applications can access the audio sample buffers via the `captureOutput:didOutputAudioSampleBuffer:fromConnection:` (page 7) delegate method. Clients can also create subclasses of `QTCaptureDecompressedAudioOutput` to add custom capturing behavior.

Tasks

Decompressing Audio Output

- `delegate` (page 6)
Returns the receiver's delegate.
- `setDelegate:` (page 6)
Sets the receiver's delegate.
- `outputAudioSampleBuffer:fromConnection:` (page 6)
Called whenever the receiver outputs a new audio sample buffer.
- `captureOutput:didOutputAudioSampleBuffer:fromConnection:` (page 7) *delegate method*
Called whenever the audio data output outputs a new audio sample buffer.

Instance Methods

delegate

Returns the receiver's delegate.

```
- (id)delegate
```

Availability

Mac OS X v10.5 and later; QuickTime 7.6.3.

Declared In

QTCaptureDecompressedAudioOutput.h

outputAudioSampleBuffer:fromConnection:

Called whenever the receiver outputs a new audio sample buffer.

```
- (void)outputAudioSampleBuffer:(QTSampleBuffer *)sampleBuffer
    fromConnection:(QTCaptureConnection *)connection
```

Parameters

sampleBuffer

A sample buffer containing the audio data and additional information about the buffer, such as its presentation time.

connection

The connection from which the audio was received.

Discussion

This method should not be invoked directly. Subclasses can override this method to provide custom processing behavior for each sample buffer. The default implementation calls the delegate's [captureOutput:didOutputAudioSampleBuffer:fromConnection:](#) (page 7) method.

Subclasses should not assume that this method will be called on the main thread. In addition, this method is called periodically, so it must be efficient to prevent capture performance problems.

Availability

Mac OS X v10.5 and later; QuickTime 7.6.3.

Declared In

QTCaptureDecompressedAudioOutput.h

setDelegate:

Sets the receiver's delegate.

```
- (void)setDelegate:(id)delegate
```

Availability

Mac OS X v10.5 and later; QuickTime 7.6.3.

Declared In

QTCaptureDecompressedAudioOutput.h

Delegate Methods

captureOutput:didOutputAudioSampleBuffer:fromConnection:

Called whenever the audio data output outputs a new audio sample buffer.

```
- (void)captureOutput:(QTCaptureOutput *)captureOutput
  didOutputAudioSampleBuffer:(QTSampleBuffer *)sampleBuffer
  fromConnection:(QTCaptureConnection *)connection
```

Parameters*captureOutput*

The QTCaptureDecompressedAudioOutput instance that output the frame.

sampleBuffer

A sample buffer containing the audio data and additional information about the buffer, such as its presentation time.

connection

The connection from which the audio was received.

Discussion

Delegates receive this message whenever the output produces a new audio sample buffer. Delegates can use the provided sample buffer for custom processing of captured audio.

Delegates should not assume that this method will be called on the main thread. In addition, this method is called periodically, so it must be efficient to prevent capture performance problems.

Availability

Mac OS X v10.5 and later; QuickTime 7.6.3.

Declared In

QTCaptureDecompressedAudioOutput.h

Document Revision History

This table describes the changes to *QTCaptureDecompressedAudioOutput Class Reference*.

Date	Notes
2009-05-20	New document describing decompressed audio output methods.

REVISION HISTORY

Document Revision History