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Protocol

VTFrameProcessorConfiguration

A protocol that describes the configuration of a processor to use during a video processing session.

iOS 26.0+ | iPadOS 26.0+ | Mac Catalyst 26.0+ | macOS 15.4+ | tvOS 26.0+ | visionOS 26.0+

```
protocol VTFrameProcessorConfiguration : NSObjectProtocol, Sendable
```

Overview

The VTFrameProcessorConfiguration protocol conformance starts a frame processing session. These properties can be queried on an implementation conforming to this protocol without starting a session.

Topics

Inspecting the required configuration

```
var sourcePixelBufferAttributes: [String : any Sendable]
```

A dictionary of pixel buffer attributes that define what the source and reference frames passed to the processor must conform to.

Required

```
var destinationPixelBufferAttributes: [String : any Sendable]
```

A dictionary of pixel buffer attributes that define which output frames passed to the processor must conform to.

Required

Instance Properties

`var nextFrameCount: Int?`

The number of “next” frames that this processor requires for processing.

`var previousFrameCount: Int?`

The number of “previous” frames that this processor requires for processing.

Type Properties

`static var isSupported: Bool`

Returns a Boolean indicating whether the system supports this processor on the current configuration.

Required

`static var maximumDimensions: CMVideoDimensions?`

Maximum dimensions for a sourceFrame for the processor

`static var minimumDimensions: CMVideoDimensions?`

Minimum dimensions for a sourceFrame for the processor

Relationships

Inherits From

`NSObjectProtocol, Sendable, SendableMetatype`

Conforming Types

`VTFrameRateConversionConfiguration`

`VLLowLatencyFrameInterpolationConfiguration`

`VLLowLatencySuperResolutionScalerConfiguration`

`VTMotionBlurConfiguration`

`VTOpticalFlowConfiguration`

`VTSuperResolutionScalerConfiguration`

See Also

Frame processor

{} Enhancing your app with machine learning-based video effects

Add powerful effects to your videos using the VideoToolbox VTFrameProcessor API.

`class VTFrameProcessor`

A class that creates a new frame processor for the configured video effect.

`class VTFrameProcessorFrame`

An object that wraps video frames to send to the processor, as source, reference, or output frames.

`protocol VTFrameProcessorParameters`

The base protocol for input and output processing parameters for a frame processor implementation.