# Mvx2BasicIONet

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1 Mantis Vision: Mvx2BasicIO
2 Release Notes
3 Namespace Index
3.1 Packages
4 Hierarchical Index
4.1 Class Hierarchy
5 Class Index
5.1 Class List
6 Namespace Documentation 15
6.1 Mvx2BasicIO Namespace Reference
7 Class Documentation 17
7.1 Mvx2BasicIO.Mvx2FileAsyncReader Class Reference
7.1.1 Detailed Description
7.1.2 Constructor & Destructor Documentation
7.1.2.1 Mvx2FileAsyncReader()
7.1.3 Member Function Documentation
7.1.3.1 Play()
7.1.3.2 Stop()
7.2 Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode Class Reference
7.2.1 Detailed Description
7.2.2 Member Enumeration Documentation
7.2.2.1 FullBehaviour
7.2.3 Constructor & Destructor Documentation
7.2.3.1 Mvx2FileAsyncWriterGraphNode()
7.2.4 Member Function Documentation
7.2.4.1 EnableRecording()
7.2.4.2 GetDroppedFramesCount()
7.2.4.3 SetFilePath()
7.2.4.4 SetFullBehaviour()
7.3 Mvx2BasicIO.Mvx2FileBasicDataInfo Class Reference
7.3.1 Detailed Description
7.3.2 Constructor & Destructor Documentation
7.3.2.1 Mvx2FileBasicDataInfo()
7.3.3 Member Function Documentation
7.3.3.1 CanRenderThumbnail()
7.3.3.2 GetFirstFrame()
7.3.3.3 GetFPS()
7.3.3.4 GetNumFrames()

7.3.3.5 HasAudio()	24
7.3.3.6 HasColors()	24
7.3.3.7 HasColorTexture()	24
7.3.3.8 HasDepthMap()	25
7.3.3.9 HasIndices()	25
7.3.3.10 HasIRTexture()	25
7.3.3.11 HasNormals()	25
7.3.3.12 HasUVs()	26
7.3.3.13 HasVertices()	26
7.3.3.14 IsSingleFrame()	26
7.3.3.15 lsValid()	26
7.3.3.16 RenderThumbnail()	26
7.4 Mvx2BasicIO.Mvx2FileRandomAccessReader Class Reference	27
7.4.1 Detailed Description	27
7.4.2 Constructor & Destructor Documentation	27
7.4.2.1 Mvx2FileRandomAccessReader()	27
7.4.3 Member Function Documentation	28
7.4.3.1 ReadFrame()	28
7.5 Mvx2BasicIO.Mvx2FileReaderGraphNode Class Reference	28
7.5.1 Detailed Description	28
7.5.2 Constructor & Destructor Documentation	28
7.5.2.1 Mvx2FileReaderGraphNode()	28
7.5.3 Member Function Documentation	29
7.5.3.1 SetFilePath()	29
7.6 Mvx2BasicIO.Mvx2FileSyncReader Class Reference	29
7.6.1 Detailed Description	29
7.6.2 Constructor & Destructor Documentation	29
7.6.2.1 Mvx2FileSyncReader()	29
7.6.3 Member Function Documentation	30
7.6.3.1 ReadNextFrame()	30
7.7 Mvx2BasicIO.Mvx2FileWriterGraphNode Class Reference	30
7.7.1 Detailed Description	31
7.7.2 Constructor & Destructor Documentation	31
7.7.2.1 Mvx2FileWriterGraphNode()	31
7.7.3 Member Function Documentation	31
7.7.3.1 EnableRecording()	31
7.7.3.2 SetFilePath()	31
7.8 Mvx2BasicIO.NetworkReceiverGraphNode Class Reference	33
7.8.1 Detailed Description	33
7.8.2 Constructor & Destructor Documentation	33
7.8.2.1 NetworkReceiverGraphNode() [1/2]	33
7.8.2.2 NetworkReceiverGraphNode() [2/2]	34

7.8.3 Member Function Documentation	34
7.8.3.1 SetSockets()	34
7.8.3.2 SetUnsupportedTransmitterProtocolVersions()	35
7.9 Mvx2BasicIO.NetworkTransmitterGraphNode Class Reference	35
7.9.1 Detailed Description	36
7.9.2 Constructor & Destructor Documentation	36
7.9.2.1 NetworkTransmitterGraphNode() [1/2]	36
7.9.2.2 NetworkTransmitterGraphNode() [2/2]	36
7.9.3 Member Function Documentation	37
7.9.3.1 EnableTransmission()	37
7.9.3.2 GetDroppedAtomsCount()	37
7.9.3.3 SetSockets()	37
7.9.3.4 SetUnsupportedReceiverProtocolVersions()	38
Index	39

# **Chapter 1**

# Mantis Vision: Mvx2BasicIO

An extension module of Mvx2 for file and network data accessing and storing.

# **Description**

Mvx2BasicIO is a collection of classes and functions which together form an extension of the core Mvx2 (Mvx2 is documented in a dedicated document). The extension's emphasis is on working with Mvx2-formatted files and network streaming.

Following is a quick overview of the Mvx2BasicIO's purpose and features:

- · provides graph nodes for accessing (reading and writing) Mvx2-formatted files,
- provides graph nodes for accessing (transmission and reception) Mvx2 network streams,
- provides utility for fast extraction of basic data information about Mvx2 files.

#### **File Access**

The extension provides multiple graph node implementations related to access to Mvx2-formatted files. The most basic are:

- Mvx2BasicIO.Mvx2FileReaderGraphNode for reading frame data from Mvx2-formatted files and
- Mvx2BasicIO.Mvx2FileWriterGraphNode for writing processed frames to Mvx2-formatted files.

Furthermore, the extension provides an utility class Mvx2BasicIO.Mvx2FileBasicDataInfo, which provides a fast access to the most basic queries related to content of Mvx2-formatted files (e.g. number of frames in a file), but it is also able to read the very first frame from the file, so any more advanced queries can be performed as well.

#### Networking

Another collection of classes of the extension adds support for streaming Mvx2 data over network:

- · Mvx2BasicIO.NetworkReceiverGraphNode for reception of frame data from a network stream and
- Mvx2BasicIO.NetworkTransmitterGraphNode for transmission of processed frames via a network stream.

#### **Details**

Compiled using SuperNetwork plugin version 4.2.0 and MVX2File plugin version 3.3.1.

Mantis Vision: Mvx2BasicIO

# **Chapter 2**

# **Release Notes**

#### 1.0.0

Initial version.

#### Module

1.0.0\_M1 | renamed NetworkTransmitterGraphNode::GetDroppedFramesCount() and NetworkTransmitter
 GraphNode::ResetDroppedFramesCounter() functions to MVGraphAPI::NetworkTransmitterGraphNode::←
 GetDroppedAtomsCount() "NetworkTransmitterGraphNode::GetDroppedAtomsCount()" and MVGraphAP←
 I::NetworkTransmitterGraphNode::ResetDroppedAtomsCounter() "NetworkTransmitterGraphNode::Reset←
 DroppedAtomsCounter()" respectively

#### **Documentation**

- 1.0.0\_D1 | added 'release notes' section
- 1.0.0\_D2 | added/updated missing API reference documentation
- 1.0.0\_D3 | switched documentation from xml-style comments to doxygen-style comments

#### **Build support**

• 1.0.0\_BS1 | introduced MVGraph\_SimpleAPIConfig.cmake, MVGraph\_SimpleAPINetConfig.cmake and M← VGraph\_SimpleAPINet\_iOSConfig.cmake

# Samples

• 1.0.0\_S1 | introduced MVGraph\_SimpleAPIDemo and MVGraph\_SimpleAPINetDemo samples for showcasing usage of MVGraph\_SimpleAPI extension of MVGraphAPI (both samples are compiled using cmake and include python scripts for their simple compilation and execution)

4 Release Notes

#### 2.0.0

#### Module

- 2.0.0\_M1 | updated Mvx2 3rdparty dependency to version 3.0.0
- 2.0.0\_M2 | updated SuperNetwork plugin to 2.0.0
- 2.0.0 M3 | updated MVX2File plugin to 2.0.0
- 2.0.0\_M4 | introduced MVGraphAPI::Mvx2FileAsyncWriterGraphNode "Mvx2FileAsyncWriterGraphNode", which performs writing operation from standalone writing thread asynchronously, as an alternative to M← VGraphAPI::Mvx2FileWriterGraphNode "Mvx2FileWriterGraphNode"

#### **Build support**

- 2.0.0\_BS1 | size of Android and LuminOS libraries reduced by  $\sim$ 90%
- 2.0.0\_BS2 | android API level raised from 19 to 21
- 2.0.0\_BS3 | Linux and MacOS binaries do not consist of a versioned library file and a version-neutral symlink file anymore the library file itself has version-neutral name

#### 3.0.0

#### Module

- 3.0.0\_M1 | updated Mvx2 3rdparty dependency to version 4.0.0
- 3.0.0\_M2 | updated SuperNetwork plugin to 3.0.0
- 3.0.0 M3 | updated MVX2File plugin to 3.0.0
- 3.0.0\_M4 | removed MVGraphAPI::AutoCompressorGraphNode and MVGraphAPI::AutoDecompressor ← GraphNode since Mvx2 now contains their alternatives
- 3.0.0\_M5 | removed MVGraphAPI::InjectFileDataGraphNode and MVGraphAPI::InjectMemoryDataGraph 

  Node since Mvx2 now contains their alternatives
- 3.0.0\_M6 | removed MVGraphAPI::MeshData and MVGraphAPI::MeshSplitter since Mvx2 now contains their alternatives
- 3.0.0\_M7 | removed MVGraphAPI::SimpleDataLayersGuids since Mvx2 now contains its alternative
- 3.0.0\_M8 | removed frame data extractors since Mvx2 now contains their alternatives:
  - MVGraphAPI::FrameAudioExtractor
  - MVGraphAPI::FrameMeshExtractor
  - MVGraphAPI::FrameMiscDataExtractor
  - MVGraphAPI::FrameTextureExtractor
- 3.0.0\_M9 | renamed MVGraph\_SimpleAPI module to Mvx2BasicIO:
  - 1. MVGraph\_SimpleAPI product renamed to Mvx2BasicIO
  - 2. public header files of MVGraph\_SimpleAPI moved to include/Mvx2BasicIO directory
  - 3. MVGraphAPI namespace renamed to Mvx2BasicIO
  - 4. MVGraph\_SimpleAPI.zip file containing MVGraph\_SimpleAPI/Mvx2BasicIO documentation renamed to Mvx2BasicIO.zip

- 5. updated Mvx2BasicIO documentation
- 6. introduced Mvx2BasicIO's own export macro MVX2BASICIO\_API defined in file Mvx2BasicIO/← Mvx2BasicIO.h instead of reusing Mvx2's MVX2\_API
- 7. MVGraph\_SimpleAPIConfig.cmake cmake-build file updated and renamed to Mvx2Basic← IOConfig.cmake
- 3.0.0\_M10 | renamed MVGraph\_SimpleAPINet module to Mvx2BasicIONet:
  - 1. MVGraph SimpleAPI product renamed to Mvx2BasicIO
  - 2. MVGraphAPI namespace renamed to Mvx2BasicIO
  - 3. MVGraph\_SimpleAPINet.zip file containing MVGraph\_SimpleAPINet/Mvx2BasicIONet documentation renamed to Mvx2BasicIONet.zip
  - 4. updated Mvx2BasicIONet documentation
  - 5. MVGraphAPI::MVGraph\_SimpleAPINetConstants class renamed to Mvx2BasicIO:: ← Constants and its MV\_GRAPH\_SIMPLE\_API\_INTEROP\_DLL field to INTEROP\_DLL
  - 6. MVGraph\_SimpleAPINetConfig.cmake and MVGraph\_SimpleAPINet\_iOSConfig. ← cmake cmake-build files updated and renamed to Mvx2BasicIONetConfig.cmake and Mvx2← BasicIONet\_iOSConfig.cmake respectively
- 3.0.0\_M11 | renamed Mvx2BasicIO::Mvx2FileSimpleDataInfo class to Mvx2BasicIO::Mvx2FileBasicDat

#### **Samples**

- 3.0.0\_S1 | renamed MVGraph\_SimpleAPIDemo and MVGraph\_SimpleAPINetDemo to Mvx2↔ BasicIODemo and Mvx2BasicIONetDemo respectively
- 3.0.0\_S2 | updated sources and support scripts of Mvx2BasicIODemo and Mvx2BasicIONetDemo for latest Mvx2(Net) and Mvx2BasicIO(Net)

#### 3.1.0

#### Module

- 3.1.0\_M1 | updated SuperNetwork plugin to 4.0.0 (experimental IPv6 support)
- 3.1.0\_M2 | added an option to enable experimental IPv6 support in Mvx2BasicIO.NetworkTransmitterGraphNode and Mvx2BasicIO.NetworkReceiverGraphNode graph nodes:
  - the feature may not work on all platforms as expected and may even prevent correct functioning of IPv4 communication
  - introduced enableIPv6 parameter to Mvx2BasicIO.NetworkTransmitterGraphNode constructors with false as default value
  - introduced enableIPv6 parameter to Mvx2BasicIO.NetworkTransmitterGraphNode.SetSockets with false as default value
  - introduced enableIPv6 parameter to Mvx2BasicIO.NetworkReceiverGraphNode constructors with false as default value
  - introduced enableIPv6 parameter to Mvx2BasicIO.NetworkReceiverGraphNode.SetSockets with false as default value

6 Release Notes

#### 4.0.0

#### Module

- 4.0.0 M1 | updated MVCommon 3rdparty dependency to version 3.0.0
- 4.0.0\_M2 | updated Mvx2 3rdparty dependency to version 5.0.0
- 4.0.0\_M3 | updated SuperNetwork plugin to 4.1.0
- 4.0.0\_M4 | updated MVX2File plugin to 3.1.0

#### **Build support**

- 4.0.0 BS1 | CMake minimal required version increased from 3.9 to 3.14
  - updated Mvx2BasicIOConfig.cmake, Mvx2BasicIONetConfig.cmake and Mvx2← BasicIONet\_iOSConfig.cmake scripts and their dependencies

#### **Samples**

- 4.0.0\_S1 | extended Mvx2BasicIODemo and Mvx2BasicIONetDemo samples to print data profiles of frames during the inspection (a new feature introduced to Mvx2 with version 5.0.0)
- 4.0.0\_S2 | CMake minimal required version increased from 3.9 to 3.14
  - updated CMakeLists.txt of Mvx2BasicIODemo sample
  - updated CMakeLists.txt of Mvx2BasicIONetDemo sample
- 4.0.0\_S3 | updated Mvx2BasicIODemo and Mvx2BasicIONetDemo samples' CMakeLists.txt and make.py scripts to expect MVCommon and Mvx2 dependencies and MVX2File and SuperNetwork plugins on a potentially different path than Mvx2BasicIO dependency
  - introduced build/local\_config/mvcommon\_root\_dir.cfg config files inside the samples root directories, which shall specify a path to the MVCommon root directory
  - introduced build/local\_config/mvx2\_root\_dir.cfg config files inside the samples root directories, which shall specify a path to the Mvx2 root directory
  - introduced build/local\_config/mvx2file\_root\_dir.cfg config files inside the samples root directories, which shall specify a path to the MVX2File root directory
  - introduced build/local\_config/supernetwork\_root\_dir.cfg config files inside the samples root directories, which shall specify a path to the SuperNetwork root directory

#### 5.0.0

# Module

- 5.0.0\_M1 | updated MVCommon 3rdparty dependency to version 4.0.0
- 5.0.0\_M2 | updated Mvx2 3rdparty dependency to version 6.0.0
- 5.0.0\_M3 | updated SuperNetwork plugin to 4.2.0
- **5.0.0\_M4** | updated MVX2File plugin to 3.3.0

# **Build support**

- 5.0.0\_BS1 | from now on the windows libraries are compiled using msvc compiler version 142 (VS 2019)
- $\bullet \ \, \textbf{5.0.0\_BS2} \ | \ \, \textbf{upgraded} \ \, \textbf{cmake/toolchains/ios.cmake} \ \, \textbf{toolchain} \ \, \textbf{file} \ \, \textbf{used for building for iOS platform} \\$

#### **Documentation**

- ${\bf 5.0.0\_D1} \mid {\sf introduced} \ {\sf PDF} \ {\sf documentation}$  as an alternative to the HTML one:
  - doc/Mvx2BasicIO.pdf
  - doc/Mvx2BasicIONet.pdf

# Samples

• 5.0.0\_S1 | from now on the windows libraries of the samples are compiled using msvc compiler version 142 (VS 2019)

8 Release Notes

# **Chapter 3**

# Namespace Index

# 3.1 Packages

re are the packages with brief descriptions (if available):		
Mvx2BasicIO	15	

10 Namespace Index

# **Chapter 4**

# **Hierarchical Index**

# 4.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

GraphNode
Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode
Mvx2BasicIO.Mvx2FileReaderGraphNode
Mvx2BasicIO.Mvx2FileWriterGraphNode
Mvx2BasicIO.NetworkReceiverGraphNode
Mvx2BasicIO.NetworkTransmitterGraphNode
Mvx2BasicIO.Mvx2FileAsyncReader
Mvx2BasicIO.Mvx2FileRandomAccessReader
Mvx2BasicIO.Mvx2FileSyncReader
NativeObjectHolder
Mvx2BasicIO.Mvx2FileBasicDataInfo

12 Hierarchical Index

# **Chapter 5**

# **Class Index**

# 5.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Mvx2BasicIO.Mvx2FileAsyncReader	
A sequential reader of MVX2 files with an asynchronous access to processed frames	17
Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode	
A target graph node for asynchronous writing frames to an MVX2 file	19
Mvx2BasicIO.Mvx2FileBasicDataInfo	
A provider of basic data information about an MVX2 file	21
Mvx2BasicIO.Mvx2FileRandomAccessReader	
A sequential reader of MVX2 files with a random access to processed frames	27
Mvx2BasicIO.Mvx2FileReaderGraphNode	
A source graph node for reading frames from an MVX2 file	28
Mvx2BasicIO.Mvx2FileSyncReader	
A sequential reader of MVX2 files with a synchronous access to processed frames	29
Mvx2BasicIO.Mvx2FileWriterGraphNode	
A target graph node for writing frames to an MVX2 file	30
Mvx2BasicIO.NetworkReceiverGraphNode	
A source graph node for reception of frames via network	33
Mvx2BasicIO.NetworkTransmitterGraphNode	
A target graph node for transmission of frames via network	35

14 Class Index

# **Chapter 6**

# **Namespace Documentation**

# 6.1 Mvx2BasicIO Namespace Reference

#### **Classes**

class Mvx2FileAsyncReader

A sequential reader of MVX2 files with an asynchronous access to processed frames.

class Mvx2FileAsyncWriterGraphNode

A target graph node for asynchronous writing frames to an MVX2 file.

• class Mvx2FileBasicDataInfo

A provider of basic data information about an MVX2 file.

• class Mvx2FileRandomAccessReader

A sequential reader of MVX2 files with a random access to processed frames.

• class Mvx2FileReaderGraphNode

A source graph node for reading frames from an MVX2 file.

· class Mvx2FileSyncReader

A sequential reader of MVX2 files with a synchronous access to processed frames.

class Mvx2FileWriterGraphNode

A target graph node for writing frames to an MVX2 file.

· class NetworkReceiverGraphNode

A source graph node for reception of frames via network.

• class NetworkTransmitterGraphNode

A target graph node for transmission of frames via network.

# **Chapter 7**

# **Class Documentation**

# 7.1 Mvx2BasicIO.Mvx2FileAsyncReader Class Reference

A sequential reader of MVX2 files with an asynchronous access to processed frames.

#### **Public Member Functions**

- Mvx2FileAsyncReader (MVCommon.String filePath, Mvx2API.FrameListener frameListener, float fps=FPS\_FROM\_SOURCE) A constructor.
- bool Play (Mvx2API.RunnerPlaybackMode playbackMode, bool blockUntilStopped=false)
   Starts the file reading.
- bool Stop ()

Stops the file reading.

#### **Static Public Attributes**

- const float FPS\_MAX = 0.0f
  - A special framerate value indicating that the maximal possible framerate shall be used.
- const float FPS\_FROM\_SOURCE = -1.0f
  - A special framerate value indicating that the framerate of an open source shall be used.
- const float FPS\_FPS\_HALF\_FROM\_SOURCE = -2.0f
  - A special framerate value indicating that the half of the framerate of an open source shall be used.
- const float FPS\_DOUBLE\_FROM\_SOURCE = -3.0f

A special framerate value indicating that the double of the framerate of an open source shall be used.

# 7.1.1 Detailed Description

A sequential reader of MVX2 files with an asynchronous access to processed frames.

#### 7.1.2 Constructor & Destructor Documentation

#### 7.1.2.1 Mvx2FileAsyncReader()

```
\label{eq:main_main} $\operatorname{Mvx2FileAsyncReader.Mvx2FileAsyncReader}$ ($\operatorname{MvCommon.String}$ filePath, $\operatorname{Mvx2API.FrameListener}$ float $fps = FPS\_FROM\_SOURCE$ )
```

#### A constructor.

#### **Parameters**

filePath	a path of the MVX2 file to read
frameListener	an asynchronous frames listener
fps	a framerate to follow

#### **Exceptions**

# 7.1.3 Member Function Documentation

# 7.1.3.1 Play()

Starts the file reading.

Can be executed synchronously in case blockUntilStopped is set to true, or asynchronously when set to false.

#### **Parameters**

playbackMode	a playback mode of the reading
blockUntilStopped	an indication whether to block the call until the reading is stopped implicitly

#### Returns

true if the file reading successfully started

#### 7.1.3.2 Stop()

```
bool Mvx2BasicIO.Mvx2FileAsyncReader.Stop ( )
```

Stops the file reading.

Returns

true if the file reading successfully stopped

The documentation for this class was generated from the following file:

• public/util/Mvx2FileAsyncReader.cs

# 7.2 Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode Class Reference

A target graph node for asynchronous writing frames to an MVX2 file. Inherits GraphNode.

# **Public Types**

• enum FullBehaviour { FullBehaviour.FB\_DROP\_FRAMES, FullBehaviour.FB\_BLOCK\_FRAMES } Enumeration of supported behaviours when the buffer of frames is full.

#### **Public Member Functions**

Mvx2FileAsyncWriterGraphNode (MVCommon.String filePath, bool enableRecording=true, UInt32 buffer

 Size=3, FullBehaviour fullBehaviour=FullBehaviour.FB\_DROP\_FRAMES)

A constructor.

• void EnableRecording (bool enable=true)

Enables/disables actual recording to the MVX2 file.

void SetFilePath (MVCommon.String filePath)

Changes the path of the MVX2 file to write to.

void SetFullBehaviour (FullBehaviour fullBehaviour)

Sets a full-behaviour - action to perform when the buffer of frames becomes full.

UInt64 GetDroppedFramesCount ()

Gets a value of internal counter of dropped frames.

void ResetDroppedFramesCounter ()

Resets the internal counter of dropped frames to zero.

#### 7.2.1 Detailed Description

A target graph node for asynchronous writing frames to an MVX2 file.

Asynchronous writing means that frames are pushed to a buffer from the pipeline thread and are pulled from the buffer and written to a file from a standalone writing thread.

Internally maintains a single writing filter. The same filter is reused even when the graph node is added to multiple graphs.

#### 7.2.2 Member Enumeration Documentation

#### 7.2.2.1 FullBehaviour

enum Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode.FullBehaviour [strong]

Enumeration of supported behaviours when the buffer of frames is full.

#### Enumerator

FB_DROP_FRAMES	When buffer is full, new frames from pipeline are dropped and pipeline continues its
	execution.
FB_BLOCK_FRAMES	When buffer is full, pipeline thread is blocked until there is some free space in the
	buffer.

#### 7.2.3 Constructor & Destructor Documentation

#### 7.2.3.1 Mvx2FileAsyncWriterGraphNode()

#### A constructor.

#### **Parameters**

filePath	a path of the MVX2 file to write to
enableRecording	an indication whether the recording shall be enabled right away
bufferSize	a size of frames buffer
fullBehaviour	an initial full-behaviour

### 7.2.4 Member Function Documentation

#### 7.2.4.1 EnableRecording()

```
void Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode.EnableRecording ( bool enable = true )
```

Enables/disables actual recording to the MVX2 file.

#### **Parameters**

ı		
	enable	true in order to enable recording, false in order to disable it

#### 7.2.4.2 GetDroppedFramesCount()

 ${\tt UInt64~Mvx2BasicI0.Mvx2FileAsyncWriterGraphNode.GetDroppedFramesCount} \ \ (\ )$ 

Gets a value of internal counter of dropped frames.

Returns

dropped frames count

#### 7.2.4.3 SetFilePath()

Changes the path of the MVX2 file to write to.

#### **Parameters**

filePath	a new path of the MVX2 file
----------	-----------------------------

#### 7.2.4.4 SetFullBehaviour()

```
\label{thm:cond} \mbox{{\tt Void Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode.SetFullBehaviour (}} \\ \mbox{{\tt FullBehaviour fullBehaviour})}
```

Sets a full-behaviour - action to perform when the buffer of frames becomes full.

### **Parameters**

fullBehaviour	a behaviour to set
---------------	--------------------

The documentation for this class was generated from the following file:

• public/graphnodes/Mvx2FileAsyncWriterGraphNode.cs

# 7.3 Mvx2BasicIO.Mvx2FileBasicDataInfo Class Reference

A provider of basic data information about an MVX2 file.

Inherits NativeObjectHolder.

#### **Public Member Functions**

Mvx2FileBasicDataInfo (MVCommon.String filePath)

A constructor.

• bool IsValid ()

Indicates whether the specified file is a valid MVX2 file.

• bool IsSingleFrame ()

Indicates whether the MVX2 file contains only a single frame.

• UInt32 GetNumFrames ()

Returns a number of frames in the MVX2 file.

· float GetFPS ()

Returns framerate of the MVX2 file.

bool HasDepthMap ()

Checks the presence of depth map data in the MVX2 file.

• bool HasIRTexture ()

Checks the presence of IR texture data in the MVX2 file.

bool HasColorTexture ()

Checks the presence of a color texture data in the MVX2 file.

bool HasVertices ()

Checks the presence of vertex positions data in the MVX2 file.

• bool HasNormals ()

Checks the presence of vertex normals data in the MVX2 file.

· bool HasColors ()

Checks the presence of vertex colors data in the MVX2 file.

• bool HasUVs ()

Checks the presence of vertex UVs data in the MVX2 file.

• bool HasIndices ()

Checks the presence of vertex indices data in the MVX2 file.

• bool HasAudio ()

Checks the presence of audio data in the MVX2 file.

MVCommon.SharedRef
 Mvx2API.Frame > GetFirstFrame ()

Returns the first frame of the MVX2 file.

bool CanRenderThumbnail ()

Indicates whether it is possible to render a thumbnail image of the MVX2 file.

• void RenderThumbnail (byte[] targetBufferRGBA, Int32 targetWidth, Int32 targetHeight)

Renders a thumbnail image of the MVX2 file.

#### **Protected Member Functions**

override void DestroyNativeObject ()

Destroys the native object in a customized way.

### 7.3.1 Detailed Description

A provider of basic data information about an MVX2 file.

#### 7.3.2 Constructor & Destructor Documentation

#### 7.3.2.1 Mvx2FileBasicDataInfo()

```
\label{eq:mvx2FileBasicDataInfo.Mvx2FileBasicDataInfo} \mbox{Mvx2FileBasicDataInfo} \mbox{ (} \\ \mbox{MVCommon.String } \mbox{\it filePath } \mbox{)}
```

A constructor.

**Parameters** 

filePath a path to the MVX2 file to provide info about

# 7.3.3 Member Function Documentation

# 7.3.3.1 CanRenderThumbnail()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.CanRenderThumbnail ( )
```

Indicates whether it is possible to render a thumbnail image of the MVX2 file.

Returns

true if the thumbnail image is available

#### 7.3.3.2 GetFirstFrame()

```
{\tt MVCommon.SharedRef} < {\tt Mvx2API.Frame} > {\tt Mvx2BasicIO.Mvx2FileBasicDataInfo.GetFirstFrame} \quad (\ )
```

Returns the first frame of the MVX2 file.

Returns

the first frame

#### 7.3.3.3 GetFPS()

```
float Mvx2BasicIO.Mvx2FileBasicDataInfo.GetFPS ( )
```

Returns framerate of the MVX2 file.

Returns

framerate

#### 7.3.3.4 GetNumFrames()

```
UInt32 Mvx2BasicIO.Mvx2FileBasicDataInfo.GetNumFrames ( )
```

Returns a number of frames in the MVX2 file.

Returns

frames count

# 7.3.3.5 HasAudio()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasAudio ( )
```

Checks the presence of audio data in the MVX2 file.

Returns

true if the audio data are available

# 7.3.3.6 HasColors()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasColors ( )
```

Checks the presence of vertex colors data in the MVX2 file.

Returns

true if the vertex colors data are available

#### 7.3.3.7 HasColorTexture()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasColorTexture ( )
```

Checks the presence of a color texture data in the MVX2 file.

Returns

true if a color texture data are available

#### 7.3.3.8 HasDepthMap()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasDepthMap ( )
```

Checks the presence of depth map data in the MVX2 file.

#### Returns

true if the depth map data are available

#### 7.3.3.9 HasIndices()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasIndices ( )
```

Checks the presence of vertex indices data in the MVX2 file.

#### Returns

true if the vertex indices data are available

# 7.3.3.10 HasIRTexture()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasIRTexture ( )
```

Checks the presence of IR texture data in the MVX2 file.

#### Returns

true if the IR texture data are available

#### 7.3.3.11 HasNormals()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasNormals ( )
```

Checks the presence of vertex normals data in the MVX2 file.

#### Returns

true if the vertex normals data are available

#### 7.3.3.12 HasUVs()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasUVs ( )
```

Checks the presence of vertex UVs data in the MVX2 file.

Returns

true if the vertex UVs data are available

#### 7.3.3.13 HasVertices()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasVertices ( )
```

Checks the presence of vertex positions data in the MVX2 file.

Returns

true if the vertex positions data are available

# 7.3.3.14 IsSingleFrame()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.IsSingleFrame ( )
```

Indicates whether the MVX2 file contains only a single frame.

Returns

true if the file contains only a single frame

# 7.3.3.15 IsValid()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.IsValid ( )
```

Indicates whether the specified file is a valid MVX2 file.

Returns

true if the file is a valid MVX2 file

#### 7.3.3.16 RenderThumbnail()

Renders a thumbnail image of the MVX2 file.

#### **Parameters**

targetBufferRGBA	a pre-allocated buffer for the thumbnail image
targetWidth	width of the image buffer
targetHeight	height of the image buffer

The documentation for this class was generated from the following file:

• public/util/Mvx2FileBasicDataInfo.cs

# 7.4 Mvx2BasicIO.Mvx2FileRandomAccessReader Class Reference

A sequential reader of MVX2 files with a random access to processed frames.

# **Public Member Functions**

• Mvx2FileRandomAccessReader (MVCommon.String filePath)

A constructor.

• Mvx2API.Frame ReadFrame (UInt32 frameID)

Reads a frame from the file.

# 7.4.1 Detailed Description

A sequential reader of MVX2 files with a random access to processed frames.

#### 7.4.2 Constructor & Destructor Documentation

#### 7.4.2.1 Mvx2FileRandomAccessReader()

 $\label{lem:mvx2FileRandomAccessReader.Mvx2FileRandomAccessReader (Mvx2FileRandomAccessReader (Mvx2FileRandomAccessReader))} \\$ 

A constructor.

#### **Parameters**

filePath	a path of the MVX2 file to read

# **Exceptions**

System.InvalidOperationException   raised in case the internal graph could not be created
---

#### 7.4.3 Member Function Documentation

#### 7.4.3.1 ReadFrame()

Reads a frame from the file.

#### **Parameters**

frameID an ID of the	he frame to read
----------------------	------------------

#### Returns

a frame with the ID or nullptr if there is none

The documentation for this class was generated from the following file:

• public/util/Mvx2FileRandomAccessReader.cs

# 7.5 Mvx2BasicIO.Mvx2FileReaderGraphNode Class Reference

A source graph node for reading frames from an MVX2 file.

Inherits GraphNode.

# **Public Member Functions**

• Mvx2FileReaderGraphNode (MVCommon.String filePath)

A constructor

void SetFilePath (MVCommon.String filePath)

Changes the path of the MVX2 file to read from.

# 7.5.1 Detailed Description

A source graph node for reading frames from an MVX2 file.

Internally maintains a single reading filter. The same filter is reused even when the graph node is added to multiple graphs.

### 7.5.2 Constructor & Destructor Documentation

#### 7.5.2.1 Mvx2FileReaderGraphNode()

```
\label{eq:main_main} $$\operatorname{Mvx2FileReaderGraphNode.Mvx2FileReaderGraphNode}$ ($$\operatorname{MvCommon.String}$ filePath )
```

A constructor.

#### **Parameters**

filePath a path of the MVX2 file to read from
---

#### 7.5.3 Member Function Documentation

# 7.5.3.1 SetFilePath()

```
\label{eq:condition} \mbox{void Mvx2BasicIO.Mvx2FileReaderGraphNode.SetFilePath (} \\ \mbox{MVCommon.String } \mbox{\it filePath )}
```

Changes the path of the MVX2 file to read from.

#### **Parameters**

filePath	a new path of the MVX2 file
----------	-----------------------------

The documentation for this class was generated from the following file:

• public/graphnodes/Mvx2FileReaderGraphNode.cs

# 7.6 Mvx2BasicIO.Mvx2FileSyncReader Class Reference

A sequential reader of MVX2 files with a synchronous access to processed frames.

# **Public Member Functions**

- Mvx2FileSyncReader (MVCommon.String filePath, Mvx2API.RunnerPlaybackMode playbackMode)
- Mvx2API.Frame ReadNextFrame ()

Reads next frame from the file.

# 7.6.1 Detailed Description

A sequential reader of MVX2 files with a synchronous access to processed frames.

# 7.6.2 Constructor & Destructor Documentation

# 7.6.2.1 Mvx2FileSyncReader()

```
\label{eq:mvx2BasicIO.Mvx2FileSyncReader.Mvx2FileSyncReader} \mbox{ (} \\ \mbox{MVCommon.String } filePath, \\ \mbox{Mvx2API.RunnerPlaybackMode } playbackMode \mbox{ )} \\
```

A constructor.

#### **Parameters**

filePath	a path of the MVX2 file to read
playbackMode	a playback mode of the reading

#### **Exceptions**

#### 7.6.3 Member Function Documentation

#### 7.6.3.1 ReadNextFrame()

 ${\tt Mvx2API.Frame\ Mvx2BasicIO.Mvx2FileSyncReader.ReadNextFrame\ (\ )}$ 

Reads next frame from the file.

#### Returns

next processed frame or null if there is none

The documentation for this class was generated from the following file:

• public/util/Mvx2FileSyncReader.cs

# 7.7 Mvx2BasicIO.Mvx2FileWriterGraphNode Class Reference

A target graph node for writing frames to an MVX2 file.

Inherits GraphNode.

# **Public Member Functions**

- Mvx2FileWriterGraphNode (MVCommon.String filePath, bool enableRecording=true)
  - A constructor.
- void EnableRecording (bool enable=true)

Enables/disables actual recording to the MVX2 file.

• void SetFilePath (MVCommon.String filePath)

Changes the path of the MVX2 file to write to.

# 7.7.1 Detailed Description

A target graph node for writing frames to an MVX2 file.

Internally maintains a single writing filter. The same filter is reused even when the graph node is added to multiple graphs.

#### 7.7.2 Constructor & Destructor Documentation

### 7.7.2.1 Mvx2FileWriterGraphNode()

A constructor.

#### **Parameters**

filePath	a path of the MVX2 file to write to
enableRecording	an indication whether the recording shall be enabled right away

# 7.7.3 Member Function Documentation

# 7.7.3.1 EnableRecording()

Enables/disables actual recording to the MVX2 file.

#### **Parameters**

enable	true in order to enable recording, false in order to disable it
--------	---

### 7.7.3.2 SetFilePath()

Changes the path of the MVX2 file to write to.

#### **Parameters**

The documentation for this class was generated from the following file:

• public/graphnodes/Mvx2FileWriterGraphNode.cs

# 7.8 Mvx2BasicIO.NetworkReceiverGraphNode Class Reference

A source graph node for reception of frames via network.

Inherits GraphNode.

#### **Public Member Functions**

NetworkReceiverGraphNode (MVCommon.String commandsSocket, MVCommon.String dataSocket, UInt32 receiveBufferCapacity=5, Int64 responseReceiveTimeout=3000, bool enableIPv6=false)

A constructor

A constructor.

void SetUnsupportedTransmitterProtocolVersions (MVCommon.String unsupportedTransmitterProtocol
 — Versions)

Changes the specification of which protocol version transmitters the receiver shall not respond to.

Changes the sockets of the receiver.

# 7.8.1 Detailed Description

A source graph node for reception of frames via network.

Internally maintains a single receiving filter. The same filter is reused even when the graph node is added to multiple graphs.

### 7.8.2 Constructor & Destructor Documentation

#### 7.8.2.1 NetworkReceiverGraphNode() [1/2]

A constructor.

#### **Parameters**

commandsSocket	a socket for communication with transmitter (e.g. 'tcp://192.168.1.1:5555')	
dataSocket	a socket for data reception (e.g. 'tcp://192.168.1.1:5556')	
receiveBufferCapacity	a capacity of the underlying socket's receive-buffer	
responseReceiveTimeout	an interval to wait for response from transmitter until the connection is considered unavailable (in ms)	
enableIPv6	enables IPv6 support - unless enabled, only IPv4 communication will work	

# 7.8.2.2 NetworkReceiverGraphNode() [2/2]

#### A constructor.

#### **Parameters**

unsupportedTransmitterProtocolVersions	a comma-separated string for specifying which protocol version transmitters the receiver shall not respond to
commandsSocket	a socket for communication with transmitter (e.g. 'tcp://192.168.1.1:5555')
dataSocket	a socket for data reception (e.g. 'tcp://192.168.1.1:5556')
receiveBufferCapacity	a capacity of the underlying socket's receive-buffer
responseReceiveTimeout	an interval to wait for response from transmitter until the connection is considered unavailable (in ms)
enableIPv6	enables IPv6 support - unless enabled, only IPv4 communication will work

#### 7.8.3 Member Function Documentation

#### 7.8.3.1 SetSockets()

Changes the sockets of the receiver.

#### **Parameters**

commandsSocket	a new socket for communication with transmitter (e.g. 'tcp://192.168.1.1:5555')
dataSocket	a new socket for data reception (e.g. 'tcp://192.168.1.1:5556')
enableIPv6	enables IPv6 support - unless enabled, only IPv4 communication will work

#### 7.8.3.2 SetUnsupportedTransmitterProtocolVersions()

```
\label{thm:cond} \mbox{Void Mvx2BasicIO.NetworkReceiverGraphNode.SetUnsupportedTransmitterProtocolVersions (} \\ \mbox{MVCommon.String } \mbox{\it unsupportedTransmitterProtocolVersions )}
```

Changes the specification of which protocol version transmitters the receiver shall not respond to.

#### **Parameters**

unsupportedTransmitterProtocolVersions	a comma-separated string of protocol versions, or empty string if all
	versions transmitters can be responded to

The documentation for this class was generated from the following file:

• public/graphnodes/NetworkReceiverGraphNode.cs

# 7.9 Mvx2BasicIO.NetworkTransmitterGraphNode Class Reference

A target graph node for transmission of frames via network.

Inherits GraphNode.

### **Public Member Functions**

 NetworkTransmitterGraphNode (MVCommon.String commandsSocket, MVCommon.String dataSocket, U← Int32 sendBufferCapacity=2, bool enableTransmission=true, bool enableIPv6=false)

A constructor

A constructor.

void SetUnsupportedReceiverProtocolVersions (MVCommon.String unsupportedReceiverProtocolVersions)

Changes the specification of which protocol version receivers the transmitter shall not respond to.

Changes the sockets of the transmitter.

void EnableTransmission (bool enable=true)

Enables/disables actual frames transmission.

UInt64 GetDroppedAtomsCount ()

Returns a count of dropped (not transmitted) atoms.

void ResetDroppedAtomsCounter ()

Resets the internal counter of dropped (not transmitted) atoms.

# 7.9.1 Detailed Description

A target graph node for transmission of frames via network.

Internally maintains a single transmitting filter. The same filter is reused even when the graph node is added to multiple graphs.

Supports counting of dropped atoms.

#### 7.9.2 Constructor & Destructor Documentation

#### 7.9.2.1 NetworkTransmitterGraphNode() [1/2]

#### A constructor.

#### **Parameters**

commandsSocket	a socket for communication with receivers (e.g. 'tcp://192.168.1.1:5555')
dataSocket	a socket for data transmission (e.g. 'tcp://192.168.1.1:5556')
sendBufferCapacity	a capacity of the underlying socket's send-buffer
enableTransmission an indication whether the transmission shall be enabled right away	
enableIPv6	enables IPv6 support - unless enabled, only IPv4 communication will work

#### 7.9.2.2 NetworkTransmitterGraphNode() [2/2]

#### A constructor.

#### **Parameters**

unsupportedReceiverProtocolVersions	a comma-separated string for specifying which protocol version receivers the transmitter shall not respond to
commandsSocket	a socket for communication with receivers (e.g. 'tcp://192.168.1.1:5555')
dataSocket	a socket for data transmission (e.g. 'tcp://192.168.1.1:5556')
sendBufferCapacity	a capacity of the underlying socket's send-buffer
enableTransmission	an indication whether the transmission shall be enabled right away
enableIPv6	enables IPv6 support - unless enabled, only IPv4 communication will work

# 7.9.3 Member Function Documentation

#### 7.9.3.1 EnableTransmission()

```
\label{lem:cond} \mbox{ void Mvx2BasicIO.NetworkTransmitterGraphNode.EnableTransmission (} \\ \mbox{ bool } enable = true \mbox{ )}
```

Enables/disables actual frames transmission.

#### **Parameters**

enable true in order to enable transmission, false in order	to disable it
---	---------------

# 7.9.3.2 GetDroppedAtomsCount()

```
{\tt UInt64~Mvx2BasicIO.NetworkTransmitterGraphNode.GetDroppedAtomsCount} \ \ (\ \ )
```

Returns a count of dropped (not transmitted) atoms.

#### Returns

the count of dropped atoms

# 7.9.3.3 SetSockets()

Changes the sockets of the transmitter.

#### **Parameters**

commandsSocket	a new socket for communication with receivers (e.g. 'tcp://192.168.1.1:5555')
dataSocket	a new socket for data transmission (e.g. 'tcp://192.168.1.1:5556')
enableIPv6	enables IPv6 support - unless enabled, only IPv4 communication will work

# 7.9.3.4 SetUnsupportedReceiverProtocolVersions()

```
\label{thm:cond} {\tt Void Mvx2BasicIO.NetworkTransmitterGraphNode.SetUnsupportedReceiverProtocolVersions} \ ( \\ {\tt MVCommon.String} \ unsupportedReceiverProtocolVersions} \ )
```

Changes the specification of which protocol version receivers the transmitter shall not respond to.

#### **Parameters**

unsupportedReceiverProtocolVersions	a comma-separated string of protocol versions, or empty string if all
	versions receivers can be responded to

The documentation for this class was generated from the following file:

• public/graphnodes/NetworkTransmitterGraphNode.cs

# Index

CanRender I humbnail	Mvx2BasicIO, 15
Mvx2BasicIO.Mvx2FileBasicDataInfo, 23	Mvx2BasicIO.Mvx2FileAsyncReader, 17
	Mvx2FileAsyncReader, 17
EnableRecording	Play, 18
Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, 20	Stop, 18
Mvx2BasicIO.Mvx2FileWriterGraphNode, 31	Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, 19
EnableTransmission	EnableRecording, 20
Mvx2BasicIO.NetworkTransmitterGraphNode, 37	FB_BLOCK_FRAMES, 20
	FB_DROP_FRAMES, 20
FB_BLOCK_FRAMES	FullBehaviour, 19
Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, 20	GetDroppedFramesCount, 20
FB_DROP_FRAMES	Mvx2FileAsyncWriterGraphNode, 20
Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, 20	SetFilePath, 21
FullBehaviour	SetFullBehaviour, 21
Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, 19	Mvx2BasicIO.Mvx2FileBasicDataInfo, 21
	CanRenderThumbnail, 23
GetDroppedAtomsCount	GetFirstFrame, 23
Mvx2BasicIO.NetworkTransmitterGraphNode, 37	GetFPS, 23
GetDroppedFramesCount	GetNumFrames, 23
Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, 20	HasAudio, 24
GetFirstFrame	HasColors, 24
Mvx2BasicIO.Mvx2FileBasicDataInfo, 23	HasColorTexture, 24
GetFPS	•
Mvx2BasicIO.Mvx2FileBasicDataInfo, 23	HasDepthMap, 24 HasIndices, 25
GetNumFrames	•
Mvx2BasicIO.Mvx2FileBasicDataInfo, 23	HasIRTexture, 25
	HasNormals, 25
HasAudio	HasUVs, 25
Mvx2BasicIO.Mvx2FileBasicDataInfo, 24	HasVertices, 26
HasColors	IsSingleFrame, 26
Mvx2BasicIO.Mvx2FileBasicDataInfo, 24	IsValid, 26
HasColorTexture	Mvx2FileBasicDataInfo, 22
Mvx2BasicIO.Mvx2FileBasicDataInfo, 24	RenderThumbnail, 26
HasDepthMap	Mvx2BasicIO.Mvx2FileRandomAccessReader, 27
Mvx2BasicIO.Mvx2FileBasicDataInfo, 24	Mvx2FileRandomAccessReader, 27
HasIndices	ReadFrame, 28
Mvx2BasicIO.Mvx2FileBasicDataInfo, 25	Mvx2BasicIO.Mvx2FileReaderGraphNode, 28
HasIRTexture	Mvx2FileReaderGraphNode, 28
Mvx2BasicIO.Mvx2FileBasicDataInfo, 25	SetFilePath, 29
HasNormals	Mvx2BasicIO.Mvx2FileSyncReader, 29
Mvx2BasicIO.Mvx2FileBasicDataInfo, 25	Mvx2FileSyncReader, 29
HasUVs	ReadNextFrame, 30
Mvx2BasicIO.Mvx2FileBasicDataInfo, 25	Mvx2BasicIO.Mvx2FileWriterGraphNode, 30
HasVertices	EnableRecording, 31
Mvx2BasicIO.Mvx2FileBasicDataInfo, 26	Mvx2FileWriterGraphNode, 31
	SetFilePath, 31
IsSingleFrame	Mvx2BasicIO.NetworkReceiverGraphNode, 33
Mvx2BasicIO.Mvx2FileBasicDataInfo, 26	NetworkReceiverGraphNode, 33, 34
IsValid	SetSockets, 34
Mvx2BasicIO.Mvx2FileBasicDataInfo, 26	SetUnsupportedTransmitterProtocolVersions, 35

40 INDEX

Mvx2BasicIO.NetworkTransmitterGraphNode, 35
EnableTransmission, 37
GetDroppedAtomsCount, 37
NetworkTransmitterGraphNode, 36
SetSockets, 37
SetUnsupportedReceiverProtocolVersions, 38
Mvx2FileAsyncReader
Mvx2BasicIO.Mvx2FileAsyncReader, 17
Mvx2FileAsyncWriterGraphNode
Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, 20
Mvx2FileBasicDataInfo
Mvx2BasicIO.Mvx2FileBasicDataInfo, 22
Mvx2FileRandomAccessReader
Mvx2BasicIO.Mvx2FileRandomAccessReader, 27
Mvx2FileReaderGraphNode
Mvx2BasicIO.Mvx2FileReaderGraphNode, 28
Mvx2FileSyncReader
Mvx2BasicIO.Mvx2FileSyncReader, 29
Mvx2FileWriterGraphNode
Mvx2BasicIO.Mvx2FileWriterGraphNode, 31
NetworkReceiverGraphNode
Mvx2BasicIO.NetworkReceiverGraphNode, 33, 34
NetworkTransmitterGraphNode
$Mvx2BasicIO. Network Transmitter Graph Node, {\color{red}36}$
Play
Mvx2BasicIO.Mvx2FileAsyncReader, 18
• ,
ReadFrame
Mvx2BasicIO.Mvx2FileRandomAccessReader, 28
ReadNextFrame
Mvx2BasicIO.Mvx2FileSyncReader, 30
RenderThumbnail
Mvx2BasicIO.Mvx2FileBasicDataInfo, 26
SetFilePath
Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, 21
Mvx2BasicIO.Mvx2FileReaderGraphNode, 29
Mvx2BasicIO.Mvx2FileWriterGraphNode, 31
SetFullBehaviour
Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, 21
SetSockets
Mvx2BasicIO.NetworkReceiverGraphNode, 34
Mvx2BasicIO.NetworkTransmitterGraphNode, 37
SetUnsupportedReceiverProtocolVersions
Mvx2BasicIO.NetworkTransmitterGraphNode, 38
SetUnsupportedTransmitterProtocolVersions
Mvx2BasicIO.NetworkReceiverGraphNode, 35
Stop
Mvx2BasicIO.Mvx2FileAsyncReader, 18