netmd++

1.0.1

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# **Chapter 1**

# Main Page

#### 1.1 netmd++

This C++ API was written to ease the handling of NetMD devices. It is a synchronous API. So, function calls might block your program flow. If you want to use this API in an GUI app, better put the API calls into a background thread.

#### 1.1.1 Namespace

This API uses the namespace netmd.

#### 1.1.2 Usage

- include the header file into your project: #include "path/to/netmd++.h"
   create an instance of the API: netmd::netmd\_pp\* pNetMd = new netmd::netmd\_pp();
   initialize the first found NetMD device: if (pNetMd != nullptr) { pNetMd->initDevice();
- If you change or re-plug the device, simply run above code (initDevice()) again!

### 1.1.3 Examples

#### 1.1.3.1 Track transfer

Check for on-the-fly support and transfer a WAVE file to NetMD with on-the-fly encoding (LP2) or w/o encoding (SP).

2 Main Page

#### 1.1.3.2 Erase disc and set new title

```
#include <netmd++.h>
int main()
{
    netmd::netmd_pp* pNetMd = new netmd::netmd_pp();
    if ((pNetMd != nullptr) && (pNetMd->initDevice() == netmd::NETMDERR_NO_ERROR))
    {
        pNetMd->eraseDisc();
        pNetMd->setDiscTitle("Amazing MD");
    }
    return 0;
}
```

### 1.2 MDs UTOC

For the UTOC structure please have a look at this great site on minidisc.org

#### 1.2.1 Addressing in UTOC

"The disc start and end addresses each consist of a cluster, sector, and sound group, all packed into 3 bytes. The sound group is the MiniDisc's smallest addressable unit, representing 11.6ms of mono audio (212 bytes). A sector contains 11 sound groups (2332 bytes). A cluster is an aggregate of 32 sectors (352 sound groups) representing 2.03 seconds of stereo audio; it is the smallest unit of data that can be written to a MiniDisc. In the 3 byte packing, there are 14 bits allocated to the cluster number, 6 bits to the sector, and 4 bits to the soundgroup; this arrangement allows addressing of up to 9.2 hours of stereo audio."

#### 1.2.2 Modifying the UTOC

1. download the UTOC sectors 0 ... 2 from NetMD Device:

```
pNetMd->prepareTOCManip();
NetMDByteVector tocData;
for (int i = 0; i < 3; i++)
{
    tocData += pNetMd->readUTOCSector(static_cast<UTOCSector>(i));
}
```

2. create toc class instance and add some track data

```
uint8_t *pData = new uint8_t[tocData.size()];
for(size_t i = 0; i < tocData.size(); i++)
{
    pData[i] = toc.at(i);
}
netmd::CNetMdTOC utoc(8, 459'000, pData);
utoc.addTrack(1, 60'000, "Funky Track One Minute Part #1");
utoc.addTrack(2, 60'000, "Funky Track One Minute Part #2");</pre>
```

3. upload changed TOC data to NetMD

```
bool doit = true;
for (int x = 0; x < 3; x++)
{
    tocData.clear();
    addArrayData(tocData, &pData[2352 * x], 2352);
    if (pNetMD->writeUTOCSector(static_cast<UTOCSector>(x), tocData) == NETMDERR_NO_ERROR)
    {
        std::cout « "TOC sector " « x « " written!" « std::endl;
    }
    else
    {
        doit = false;
    }
}
if (doit)
{
    pNetMD->finalizeTOC();
}
delete [] pData;
```

# **Chapter 2**

# Namespace Index

# 2.1 Namespace List

Here is a list of all namespaces with brief descriptions:

netmd																							9
netmd::toc			 																			1	5

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# **Chapter 3**

# **Class Index**

# 3.1 Class List

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

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# **Chapter 4**

# File Index

# 4.1 File List

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# **Chapter 5**

# **Namespace Documentation**

# 5.1 netmd Namespace Reference

# **Namespaces**

• toc

#### **Classes**

struct TrackTime

track times

struct NetMdTime

NetMD time.

struct DiscCapacity

Structure to hold the capacity information of a disc.

• struct Group

track group

class CNetMdApi

This class describes a C++ NetMD access library.

class CNetMdTOC

This class describes a net md TOC.

# **Typedefs**

```
    using Groups = std::vector < Group >
        netmd groups
    using NetMDByteVector = std::vector < uint8_t >
        byte vector
    using netmd_pp = CNetMdApi
```

use netmd\_pp instead of CNetMdApi

#### **Enumerations**

```
enum DiskFormat : uint8_t {
 NETMD_DISKFORMAT_LP4 = 0, NETMD_DISKFORMAT_LP2 = 2, NETMD_DISKFORMAT_SP_MONO =
 4, NETMD_DISKFORMAT_SP_STEREO = 6,
 NO ONTHEFLY CONVERSION = 0xf }
    disk format
enum NetMdErr : int {
 NETMDERR_NO_ERROR = 0, NETMDERR_USB = -1, NETMDERR_NOTREADY = -2, NETMDERR_TIMEOUT
 NETMDERR_CMD_FAILED = -4 , NETMDERR_CMD_INVALID = -5 , NETMDERR_PARAM = -6 ,
 NETMDERR OTHER = -7,
 NETMDERR NOT SUPPORTED = -8, NETMDERR INTERIM = -9}

    enum class TrackProtection: uint8 t { UNPROTECTED = 0x00, PROTECTED = 0x03, UNKNOWN = 0xFF

    type safe protection flags

    enum class AudioEncoding: uint8 t { SP = 0x90, LP2 = 0x92, LP4 = 0x93, UNKNOWN = 0xff }

    type safe encoding flags
• enum typelog {
 DEBUG, INFO, WARN, CRITICAL,
 CAPTURE }
    log severity
enum UTOCSector : uint16_t {
 POS ADDR, HW TITLES, TSTAMPS, FW TITLES,
 UNKNWN_1 , UNKNON_2 }
    TOC sector names.
```

#### **Functions**

```
    std::ostream & operator<< (std::ostream &o, const TrackTime &tt)
        format helper for TrackTime</li>
    std::ostream & operator<< (std::ostream &o, const AudioEncoding &ae)
        format helper for AudioEncoding</li>
    std::ostream & operator<< (std::ostream &o, const TrackProtection &tp)
        format helper for TrackProtection</li>
```

NetMDByteVector & operator+= (NetMDByteVector &a, const NetMDByteVector &b)

Addition assignment operator for NetMDByteVector.

### 5.1.1 Typedef Documentation

#### 5.1.1.1 Groups

```
using netmd::Groups = typedef std::vector<Group>
netmd groups
```

#### 5.1.1.2 netmd\_pp

```
using netmd::netmd_pp = typedef CNetMdApi
```

use netmd\_pp instead of CNetMdApi

#### 5.1.1.3 NetMDByteVector

```
using netmd::NetMDByteVector = typedef std::vector<uint8_t>
```

byte vector

# **5.1.2 Enumeration Type Documentation**

#### 5.1.2.1 AudioEncoding

```
enum netmd::AudioEncoding : uint8_t [strong]
```

type safe encoding flags

#### Enumerator

SP	SP encoding.
LP2	LP2 encoding.
LP4	LP4 encoding.
UNKNOWN	unknown encoding

#### 5.1.2.2 DiskFormat

```
enum netmd::DiskFormat : uint8_t
```

disk format

#### Enumerator

NETMD_DISKFORMAT_LP4	LP4.
NETMD_DISKFORMAT_LP2	LP2.
NETMD_DISKFORMAT_SP_MONO	SP mono.
NETMD_DISKFORMAT_SP_STEREO	SP stereo.
NO ONTHEFLY CONVERSION	dont do on-the-fly encoding

#### 5.1.2.3 NetMdErr

```
enum netmd::NetMdErr : int
```

NetMD errors.

#### Enumerator

NETMDERR_NO_ERROR	success
NETMDERR_USB	general USB error
NETMDERR_NOTREADY	player not ready for command
NETMDERR_TIMEOUT	timeout while waiting for response
NETMDERR_CMD_FAILED	minidisc responded with 08 response
NETMDERR_CMD_INVALID	minidisc responded with 0A response
NETMDERR_PARAM	parameter error
NETMDERR_OTHER	any other error
NETMDERR_NOT_SUPPORTED	not supported
NETMDERR_INTERIM	interim

# 5.1.2.4 TrackProtection

```
enum netmd::TrackProtection : uint8_t [strong]
```

type safe protection flags

#### Enumerator

UNPROTECTED	track is unprotected
PROTECTED	track is protected
UNKNOWN	unknown track state

# 5.1.2.5 typelog

enum netmd::typelog

log severity

#### Enumerator

DEBUG	debug information
INFO	information
WARN	more serious
CRITICAL	critical information
CAPTURE	needed for log parcing!

#### 5.1.2.6 UTOCSector

```
enum netmd::UTOCSector : uint16_t
```

TOC sector names.

#### Enumerator

POS_ADDR	position and addresses of audio data
HW_TITLES	half width titles
TSTAMPS	time stamps
FW_TITLES	full width titles
UNKNWN←	some unidentified TOC sector #1
_1	
	some unidentified TOC sector #2
UNKNON_2	

#### 5.1.3 Function Documentation

#### 5.1.3.1 operator+=()

Addition assignment operator for NetMDByteVector.

#### **Parameters**

	а	byte vector 1
in	b	byte vector 2

#### Returns

The result of the addition assignment

#### 5.1.3.2 operator<<() [1/3]

format helper for AudioEncoding

#### **Parameters**

	0	ref. to ostream
in	ae	AudioEncoding

#### Returns

formatted AudioEncoding stored in ostream

### 5.1.3.3 operator<<() [2/3]

format helper for TrackProtection

#### **Parameters**

	0	ref. to ostream
in	tp	TrackProtection

# Returns

formatted TrackProtection stored in ostream

#### 5.1.3.4 operator << () [3/3]

format helper for TrackTime

#### **Parameters**

	0	ref. to ostream
in	tt	TrackTime

Returns

formatted TrackTime stored in ostream

# 5.2 netmd::toc Namespace Reference

# **Chapter 6**

# **Class Documentation**

# 6.1 netmd::CNetMdApi Class Reference

```
This class describes a C++ NetMD access library.
```

```
#include <netmd++.h>
```

#### **Public Member Functions**

```
• CNetMdApi ()
```

Constructs a new instance.

∼CNetMdApi ()

Destroys the object.

• int initDevice ()

Initializes the device.

• std::string getDeviceName () const

Gets the device name.

• int trackCount ()

request track count

• int discFlags ()

request disc flags

• int eraseDisc ()

erase MD

• int trackTime (int trackNo, TrackTime &trackTime)

get track time

• int discTitle (std::string &title)

get disc title

• int setDiscTitle (const std::string &title)

Sets the disc title.

• int moveTrack (uint16\_t from, uint16\_t to)

move a track (number)

int setGroupTitle (uint16\_t group, const std::string &title)

Sets the group title.

• int createGroup (const std::string &title, int first, int last)

Creates a group.

int addTrackToGroup (int track, int group)

Adds a track to group.

• int delTrackFromGroup (int track, int group)

remove track from group

• int deleteGroup (int group)

delete a group

• int deleteTrack (uint16\_t track)

delete track

• int trackBitRate (uint16\_t track, AudioEncoding &encoding, uint8\_t &channel)

get track bitrate data

• int trackFlags (uint16\_t track, TrackProtection &flags)

get track flags

• int trackTitle (uint16\_t track, std::string &title)

get track title

· bool spUploadSupported ()

is SP upload supported?

• bool offEncodeSupported ()

is on the fly encoding supported by device

• bool tocManipSupported ()

is TOC manipulation supported?

• int sendAudioFile (const std::string &filename, const std::string &title, DiskFormat otf)

Sends an audio track.

int setTrackTitle (uint16\_t trackNo, const std::string &title)

Sets the track title.

int discCapacity (DiscCapacity &dcap)

get disc capacity

• Groups groups ()

get MD track groups

• int prepareTOCManip ()

prepare TOC manipulation

NetMDByteVector readUTOCSector (UTOCSector s)

Reads an utoc sector.

• int writeUTOCSector (UTOCSector s, const NetMDByteVector &data)

Writes an utoc sector.

• int finalizeTOC (uint8\_t resetWait=15)

finalize TOC through exploit

#### **Static Public Member Functions**

• static void setLogLevel (int severity)

Sets the log level.

• static void setLogStream (std::ostream &os)

Sets the log stream.

# 6.1.1 Detailed Description

This class describes a C++ NetMD access library.

# 6.1.2 Constructor & Destructor Documentation

#### 6.1.2.1 CNetMdApi()

```
netmd::CNetMdApi::CNetMdApi ( )
```

Constructs a new instance.

#### 6.1.2.2 ∼CNetMdApi()

```
netmd::CNetMdApi::~CNetMdApi ( )
```

Destroys the object.

#### 6.1.3 Member Function Documentation

### 6.1.3.1 addTrackToGroup()

Adds a track to group.

#### **Parameters**

in	track	The track
in	group	The group

#### Returns

NetMdErr

# 6.1.3.2 createGroup()

Creates a group.

#### **Parameters**

in	title	The title
in	first	The first track
in	last	The last track

#### Returns

NetMdErr

# 6.1.3.3 deleteGroup()

# delete a group

#### **Parameters**

in	group	The group
----	-------	-----------

#### Returns

NetMdErr

# 6.1.3.4 deleteTrack()

# delete track

#### **Parameters**

in	track	The track number

#### Returns

#### 6.1.3.5 delTrackFromGroup()

remove track from group

#### **Parameters**

in	track	The track
in	group	The group

#### Returns

NetMdErr

#### 6.1.3.6 discCapacity()

get disc capacity

#### **Parameters**

out <i>dcap</i>	The buffer for disc capacity
-----------------	------------------------------

#### Returns

NetMdErr

#### 6.1.3.7 discFlags()

```
int netmd::CNetMdApi::discFlags ( )
request disc flags
```

Returns

```
< 0 -> NetMdErr; else -> flags
```

# 6.1.3.8 discTitle()

get disc title

#### **Parameters**

out title The title	
---------------------	--

Returns

NetMdErr

# 6.1.3.9 eraseDisc()

```
int netmd::CNetMdApi::eraseDisc ( )
```

erase MD

Returns

NetMdErr

# 6.1.3.10 finalizeTOC()

finalize TOC through exploit

#### **Parameters**

in	resetWait	The optional reset wait time (15 seconds)
----	-----------	---

Returns

NetMdErr

See also

NetMdErr

### 6.1.3.11 getDeviceName()

```
std::string netmd::CNetMdApi::getDeviceName ( ) const
```

Gets the device name.

#### Returns

The device name.

#### 6.1.3.12 groups()

```
Groups netmd::CNetMdApi::groups ( )
```

get MD track groups

#### Returns

vector of group structures

# 6.1.3.13 initDevice()

```
int netmd::CNetMdApi::initDevice ( )
```

Initializes the device.

#### Returns

NetMdErr

# 6.1.3.14 moveTrack()

move a track (number)

#### **Parameters**

in	from	from position
in	to	to position

### Returns

# 6.1.3.15 otfEncodeSupported()

```
bool netmd::CNetMdApi::otfEncodeSupported ( )
```

is on the fly encoding supported by device

Returns

true if so

# 6.1.3.16 prepareTOCManip()

```
int netmd::CNetMdApi::prepareTOCManip ( )
```

prepare TOC manipulation

Returns

NetMdErr

#### 6.1.3.17 readUTOCSector()

```
\label{local_net_model} \begin{tabular}{ll} NetMDByteVector netmd::CNetMdApi::readUTOCSector ( \\ UTOCSector s ) \end{tabular}
```

Reads an utoc sector.

#### **Parameters**

```
in s sector number
```

Returns

TOC sector data. (error if empty)

#### 6.1.3.18 sendAudioFile()

Sends an audio track.

The audio file must be either an WAVE file (44.1kHz / 16 bit), or an pre-encoded atrac3 file with a WAVE header. If your device supports on-the-fly encoding (not common), you can set the DiskFormat to NETMD\_DISKFORMAT\_LP4 or NETMD\_DISKFORMAT\_LP2. If you want best audio quality, use NO\_ONTHEFLY\_CONVERSION.

In case your device supports the SP download through Sony Firmware exploit, the input file might be a plain atrac 1 file.

#### **Parameters**

in	filename	The filename
in	title	The title
in	otf	The disk format

#### Returns

NetMdErr

### 6.1.3.19 setDiscTitle()

Sets the disc title.

#### **Parameters**

in	title	The title

#### Returns

NetMdErr

#### 6.1.3.20 setGroupTitle()

Sets the group title.

#### **Parameters**

in	group	The group
in	title	The title

#### Returns

NetMdErr

#### 6.1.3.21 setLogLevel()

Sets the log level.

#### **Parameters**

in severity The	e severity
-----------------	------------

#### 6.1.3.22 setLogStream()

Sets the log stream.

#### **Parameters**

in	os	The stream instance to log to
	00	The diream inclance to log to

#### 6.1.3.23 setTrackTitle()

Sets the track title.

### **Parameters**

in	trackNo	The track no
in	title	The title

#### Returns

#### 6.1.3.24 spUploadSupported()

```
bool netmd::CNetMdApi::spUploadSupported ( )
```

is SP upload supported?

Returns

true if yes

#### 6.1.3.25 tocManipSupported()

```
bool netmd::CNetMdApi::tocManipSupported ( )
```

is TOC manipulation supported?

Returns

true if supported, false if not

# 6.1.3.26 trackBitRate()

get track bitrate data

#### **Parameters**

in	track	The track number
out	encoding	The encoding flag
out	channel	The channel flag

Returns

# 6.1.3.27 trackCount()

```
int netmd::CNetMdApi::trackCount ( )
```

request track count

Returns

```
< 0 -> NetMdErr; else -> track count
```

# 6.1.3.28 trackFlags()

get track flags

#### **Parameters**

in	track	The track number
out	flags	The track flags

#### Returns

NetMdErr

#### 6.1.3.29 trackTime()

get track time

### Parameters

in	trackNo	The track no
out	trackTime	The track time

#### Returns

#### 6.1.3.30 trackTitle()

#### get track title

#### **Parameters**

in	track	The track number
out	title	The track title

#### Returns

NetMdErr

# 6.1.3.31 writeUTOCSector()

Writes an utoc sector.

#### **Parameters**

in	s	sector names
in	data	The data to be written

#### Returns

NetMdErr

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

• /mnt/c/msys64/home/joergn/src/netmd\_plusplus/include/netmd++.h

# 6.2 netmd::CNetMdTOC Class Reference

This class describes a net md TOC.

```
#include <netmd++.h>
```

#### **Classes**

struct DAOFragment

a fragment used in DAO track

### **Public Types**

using DAOFragments = std::vector< DAOFragment >

type to store all DAO track fragments (for fragmented, non empty discs)

#### **Public Member Functions**

CNetMdTOC (int trackCount=0, uint32\_t lenInMs=0, uint8\_t \*data=nullptr)

Constructs a new instance.

∼CNetMdTOC ()

Destroys the object.

void import (int trackCount=0, uint32\_t lenInMs=0, uint8\_t \*data=nullptr)

import TOC data

• int addTrack (uint8\_t no, uint32\_t lengthMs, const std::string &title)

Adds a track.

• int setDiscTitle (const std::string &title)

Sets the disc title.

• int trackCount () const

get track count

• std::string discTitle () const

get MD title

std::string trackTitle (int trackNo) const

get track title

• std::string trackInfo (int trackNo) const

get track info

• std::string discInfo () const

get disc info

#### 6.2.1 Detailed Description

This class describes a net md TOC.

# 6.2.2 Member Typedef Documentation

#### 6.2.2.1 DAOFragments

using netmd::CNetMdTOC::DAOFragments = std::vector<DAOFragment>

type to store all DAO track fragments (for fragmented, non empty discs)

#### 6.2.3 Constructor & Destructor Documentation

#### 6.2.3.1 CNetMdTOC()

```
netmd::CNetMdTOC::CNetMdTOC (
    int trackCount = 0,
    uint32_t lenInMs = 0,
    uint8_t * data = nullptr )
```

Constructs a new instance.

#### **Parameters**

in	trackCount	The track count
in	lenInMs	The length in milliseconds
	data	The TOC data

#### 6.2.3.2 ∼CNetMdTOC()

```
netmd::CNetMdTOC::~CNetMdTOC ( )
```

Destroys the object.

#### 6.2.4 Member Function Documentation

#### 6.2.4.1 addTrack()

Adds a track.

This function has to be used to split a DAO transferred disc audio track into the parts as on the original disc. This functions has to be called for all tracks in their correct order! **Breaking the order will break the TOC!** 

#### **Parameters**

in	no	track number (starting with 1)
in	lengthMs	The length in milliseconds
in	title	The track title

#### Returns

```
0 \rightarrow ok; -1 \rightarrow error
```

#### 6.2.4.2 discInfo()

```
std::string netmd::CNetMdTOC::discInfo ( ) const
get disc info
```

Returns

disc info

#### 6.2.4.3 discTitle()

```
std::string netmd::CNetMdTOC::discTitle ( ) const
get MD title
```

Returns

title

#### 6.2.4.4 import()

```
void netmd::CNetMdTOC::import (
    int trackCount = 0,
    uint32_t lenInMs = 0,
    uint8_t * data = nullptr )
```

import TOC data

#### **Parameters**

in	trackCount	The track count
in	lenInMs	The length in milliseconds
	data	The TOC data

#### 6.2.4.5 setDiscTitle()

Sets the disc title.

**Parameters** 

```
in title The title
```

Returns

```
0 -> ok; -1 -> error
```

#### 6.2.4.6 trackCount()

```
int netmd::CNetMdTOC::trackCount ( ) const
```

get track count

Returns

number of tracks

#### 6.2.4.7 trackInfo()

get track info

**Parameters** 

in trackNo The track number
-----------------------------

Returns

track info

#### 6.2.4.8 trackTitle()

get track title

#### **Parameters**

in	trackNo	The track number
----	---------	------------------

#### Returns

title

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

• /mnt/c/msys64/home/joergn/src/netmd\_plusplus/include/netmd++.h

#### 6.3 netmd::CNetMdTOC::DAOFragment Struct Reference

```
a fragment used in DAO track
```

```
#include <netmd++.h>
```

#### **Public Attributes**

- uint32\_t mStart start group
- uint32\_t mEnd end group

#### 6.3.1 Detailed Description

a fragment used in DAO track

#### 6.3.2 Member Data Documentation

#### 6.3.2.1 mEnd

uint32\_t netmd::CNetMdTOC::DAOFragment::mEnd

end group

#### 6.3.2.2 mStart

uint32\_t netmd::CNetMdTOC::DAOFragment::mStart

start group

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

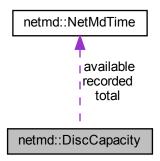
• /mnt/c/msys64/home/joergn/src/netmd plusplus/include/netmd++.h

#### 6.4 netmd::DiscCapacity Struct Reference

Structure to hold the capacity information of a disc.

```
#include <netmd++.h>
```

Collaboration diagram for netmd::DiscCapacity:



#### **Public Attributes**

- NetMdTime recorded
  - Time allready recorded on the disc.
- NetMdTime total
- NetMdTime available

#### 6.4.1 Detailed Description

Structure to hold the capacity information of a disc.

#### 6.4.2 Member Data Documentation

#### 6.4.2.1 available

```
NetMdTime netmd::DiscCapacity::available
```

Time that is available on the disc. This depends on the current recording settings.

#### 6.4.2.2 recorded

```
NetMdTime netmd::DiscCapacity::recorded
```

Time allready recorded on the disc.

#### 6.4.2.3 total

```
NetMdTime netmd::DiscCapacity::total
```

Total time, that could be recorded on the disc. This depends on the current recording settings.

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

• /mnt/c/msys64/home/joergn/src/netmd\_plusplus/include/netmd++.h

#### 6.5 netmd::Group Struct Reference

```
track group
```

```
#include <netmd++.h>
```

#### **Public Attributes**

• int mGid

group id

• int16\_t mFirst

first track

• int16\_t mLast

last track

• std::string mName

group name

#### 6.5.1 Detailed Description

track group

#### 6.5.2 Member Data Documentation

# 6.5.2.1 mFirst int16\_t netmd::Group::mFirst first track 6.5.2.2 mGid

int netmd::Group::mGid

#### 6.5.2.3 mLast

int16\_t netmd::Group::mLast

last track

group id

#### 6.5.2.4 mName

std::string netmd::Group::mName

group name

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

• /mnt/c/msys64/home/joergn/src/netmd\_plusplus/include/netmd++.h

#### 6.6 netmd::NetMdTime Struct Reference

NetMD time.

#include <netmd++.h>

#### **Public Attributes**

• uint16\_t hour

hour

• uint8\_t minute

minute

• uint8\_t second

second

• uint8\_t frame

frame

#### 6.6.1 Detailed Description

NetMD time.

#### 6.6.2 Member Data Documentation

#### 6.6.2.1 frame

uint8\_t netmd::NetMdTime::frame

frame

#### 6.6.2.2 hour

uint16\_t netmd::NetMdTime::hour

hour

#### 6.6.2.3 minute

uint8\_t netmd::NetMdTime::minute

minute

#### 6.6.2.4 second

uint8\_t netmd::NetMdTime::second

second

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

• /mnt/c/msys64/home/joergn/src/netmd\_plusplus/include/netmd++.h

#### 6.7 netmd::TrackTime Struct Reference

#### track times

#include <netmd++.h>

#### **Public Attributes**

• int mMinutes

time in minutes

· int mSeconds

time in seconds

• int mTenthSecs

time in 10ms

#### 6.7.1 Detailed Description

track times

#### 6.7.2 Member Data Documentation

#### 6.7.2.1 mMinutes

int netmd::TrackTime::mMinutes

time in minutes

#### 6.7.2.2 mSeconds

int netmd::TrackTime::mSeconds

time in seconds

#### 6.7.2.3 mTenthSecs

int netmd::TrackTime::mTenthSecs

time in 10ms

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

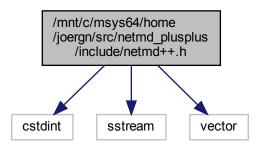
/mnt/c/msys64/home/joergn/src/netmd\_plusplus/include/netmd++.h

# **Chapter 7**

## **File Documentation**

# 7.1 /mnt/c/msys64/home/joergn/src/netmd\_plusplus/include/netmd++.h File Reference

```
#include <cstdint>
#include <sstream>
#include <vector>
Include dependency graph for netmd++.h:
```



#### Classes

struct netmd::TrackTime

track times

• struct netmd::NetMdTime

NetMD time.

struct netmd::DiscCapacity

Structure to hold the capacity information of a disc.

struct netmd::Group

track group

class netmd::CNetMdApi

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This class describes a C++ NetMD access library.

class netmd::CNetMdTOC

This class describes a net md TOC.

struct netmd::CNetMdTOC::DAOFragment

a fragment used in DAO track

#### **Namespaces**

- netmd
- · netmd::toc

#### **Typedefs**

```
    using netmd::Groups = std::vector < Group >
        netmd groups
    using netmd::NetMDByteVector = std::vector < uint8_t >
        byte vector
    using netmd::netmd_pp = CNetMdApi
        use netmd_pp instead of CNetMdApi
```

#### **Enumerations**

```
enum netmd::DiskFormat : uint8 t {
 netmd::NETMD DISKFORMAT LP4 = 0, netmd::NETMD DISKFORMAT LP2 = 2, netmd::NETMD DISKFORMAT SP MON
 = 4, netmd::NETMD DISKFORMAT SP STEREO = 6,
 netmd::NO_ONTHEFLY_CONVERSION = 0xf }
    disk format
enum netmd::NetMdErr : int {
 netmd::NETMDERR NO ERROR = 0 , netmd::NETMDERR USB = -1 , netmd::NETMDERR NOTREADY
 = -2, netmd::NETMDERR TIMEOUT = -3,
 netmd::NETMDERR_CMD_FAILED = -4 , netmd::NETMDERR_CMD_INVALID = -5 , netmd::NETMDERR_PARAM
 = -6, netmd::NETMDERR OTHER = -7,
 netmd::NETMDERR NOT SUPPORTED = -8, netmd::NETMDERR INTERIM = -9}
    NetMD errors.

    enum class netmd::TrackProtection: uint8 t { netmd::UNPROTECTED = 0x00, netmd::PROTECTED = 0x03

 , netmd::UNKNOWN = 0xFF }
    type safe protection flags
enum class netmd::AudioEncoding: uint8 t { netmd::SP = 0x90 , netmd::LP2 = 0x92 , netmd::LP4 = 0x93 ,
 netmd::UNKNOWN = 0xff }
    type safe encoding flags
enum netmd::typelog {
 netmd::DEBUG, netmd::INFO, netmd::WARN, netmd::CRITICAL,
 netmd::CAPTURE }
    log severity
• enum netmd::UTOCSector : uint16_t {
 netmd::POS_ADDR, netmd::HW_TITLES, netmd::TSTAMPS, netmd::FW_TITLES,
 netmd::UNKNWN_1, netmd::UNKNON_2}
    TOC sector names.
```

#### **Functions**

- std::ostream & netmd::operator<< (std::ostream &o, const TrackTime &tt)</li>
   format helper for TrackTime
- std::ostream & netmd::operator<< (std::ostream &o, const AudioEncoding &ae) format helper for AudioEncoding
- std::ostream & netmd::operator<< (std::ostream &o, const TrackProtection &tp) format helper for TrackProtection
- NetMDByteVector & netmd::operator+= (NetMDByteVector &a, const NetMDByteVector &b)

  Addition assignment operator for NetMDByteVector.

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