netmd++

1.0.1

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Chapter 1

Main Page

1.1 CNetMdApi

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:
  ```
  {c++}
  #include "path/to/CNetMdApi.h"
  ```
- create an instance of the API:
  ```
  {c++}
  netmd::CNetMdApi* pNetMd = new netmd::CNetMdApi();
  ```
- initialize the first found NetMD device:
  ```
  {c++}
  if ((pNetMd != nullptr) && (pNetMd->initDevice() == netmd::NETMDERR_NO_ERROR))
  {
      pNetMd->initDiscHeader();
  }
  ```
- If you change or re-plug the device, simply run above code (init) 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).

```
 {c++}
#include <CNetMdApi.h>
int main()
{
    netmd::CNetMdApi* pNetMd = new netmd::CNetMdApi();
```

```
    if ((pNetMd != nullptr) && (pNetMd->initDevice() == netmd::NETMDERR_NO_ERROR))
    {
        pNetMd->initDiscHeader();
        if (pNetMd->otfEncodeSupported())
        {
            pNetMd->sendAudioFile("/path/to/nice/audio.wav", "Very nice Audio file (LP2)",
       netmd::NETMD_DISKFORMAT_LP2);
        }
        else
        {
            pNetMd->sendAudioFile("/path/to/nice/audio.wav", "Very nice Audio file (SP)",
       netmd::NO_ONTHEFLY_CONVERSION);
        }
    }
    return 0;
}
```

1.1.3.2 Erase disc and set new title

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

Chapter 2

Namespace Index

2.1 Namespace List

Here is a list of all namespaces with brief descriptions:

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Chapter 3

Class Index

3.1 Class List

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

netmd::CNetMdApi
: This class describes a C++ NetMD access library 15

netmd::DiscCapacity
: Structure to hold the capacity information of a disc 27

netmd::Group
: Track group 28

netmd::NetMdTime
: NetMD time 29

netmd::TrackTime
: Track times 30

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

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Chapter 5

Namespace Documentation

5.1 netmd Namespace Reference

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.

Typedefs

- using Groups = std::vector< Group >

  netmd groups

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 = -3 ,
  NETMDERR_CMD_FAILED = -4 , NETMDERR_CMD_INVALID = -5 , NETMDERR_PARAM = -6 ,
  NETMDERR_OTHER = -7 ,
  NETMDERR_NOT_SUPPORTED = -8 , NETMDERR_INTERIM = -9 }

  NetMD errors.

- 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

Functions

- std::ostream & operator<< (std::ostream &o, const TrackTime &tt)

  format helper for TrackTime
- std::ostream & operator<< (std::ostream &o, const AudioEncoding &ae)

  format helper for AudioEncoding
- std::ostream & operator<< (std::ostream &o, const TrackProtection &tp)

  format helper for TrackProtection

5.1.1 Typedef Documentation

5.1.1.1 Groups

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

netmd groups

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!

5.1.3 Function Documentation

5.1.3.1 operator<<() [1/3]

```
std::ostream& netmd::operator<< (
            std::ostream & o,
            const AudioEncoding & ae )
```

format helper for AudioEncoding

Parameters

	o	ref. to ostream
in	*ae*	AudioEncoding

Returns

formatted AudioEncoding stored in ostream

5.1.3.2 operator<<() [2/3]

```
std::ostream& netmd::operator<< (
            std::ostream & o,
            const TrackProtection & tp )
```

format helper for TrackProtection

Parameters

	o	ref. to ostream
in	*tp*	TrackProtection

Returns

formatted TrackProtection stored in ostream

5.1.3.3 operator<<() [3/3]

```
std::ostream& netmd::operator<< (
            std::ostream & o,
            const TrackTime & tt )
```

format helper for TrackTime

Parameters

	o	ref. to ostream
in	*tt*	TrackTime

Returns

formatted TrackTime stored in ostream

Chapter 6

Class Documentation

6.1 netmd::CNetMdApi Class Reference

This class describes a C++ NetMD access library.

`#include <CNetMdApi.h>`

Public Member Functions

- CNetMdApi ()
  Constructs a new instance.
- ~CNetMdApi ()
  Destroys the object.
- int initDevice ()
  Initializes the device.
- int initDiscHeader ()
  Initializes the disc header.
- 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 rawDiscHeader (std::string &header)
  get raw disc header
- int discTitle (std::string &title)
  get disc title
- int setDiscTitle (const std::string &title)
  Sets the disc title.
- int writeRawDiscHeader ()
  Writes a disc header.

- 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 otfEncodeSupported ()

  is on the fly encoding supported by device
- 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

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()

```
int netmd::CNetMdApi::addTrackToGroup (
            int track,
            int group )
```

Adds a track to group.

Parameters

in	*track*	The track
in	*group*	The group

Returns

NetMdErr

6.1.3.2 createGroup()

```
int netmd::CNetMdApi::createGroup (
            const std::string & title,
            int first,
            int last )
```

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()

```
int netmd::CNetMdApi::deleteGroup (
            int group )
```

delete a group

Parameters

in	*group*	The group

Returns

NetMdErr

6.1.3.4 deleteTrack()

```
int netmd::CNetMdApi::deleteTrack (
            uint16_t track )
```

delete track

Parameters

in	*track*	The track number

Returns

NetMdErr

6.1.3.5 delTrackFromGroup()

```
int netmd::CNetMdApi::delTrackFromGroup (
            int track,
            int group )
```

remove track from group

Parameters

in	*track*	The track
in	*group*	The group

Returns

NetMdErr

6.1.3.6 discCapacity()

```
int netmd::CNetMdApi::discCapacity (
            DiscCapacity & dcap )
```

get disc capacity

Parameters

out	*dcap*	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()

```
int netmd::CNetMdApi::discTitle (
            std::string & title )
```

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 getDeviceName()

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

Gets the device name.

Returns

The device name.

6.1.3.11 groups()

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

get MD track groups

Returns

vector of group structures

6.1.3.12 initDevice()

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

Initializes the device.

Returns

NetMdErr

6.1.3.13 initDiscHeader()

```
int netmd::CNetMdApi::initDiscHeader ( )
```

Initializes the disc header.

Returns

NetMdErr

6.1.3.14 moveTrack()

```
int netmd::CNetMdApi::moveTrack (
            uint16_t from,
            uint16_t to )
```

move a track (number)

Parameters

in	*from*	from position
in	*to*	to position

Returns

NetMdErr

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 rawDiscHeader()

```
int netmd::CNetMdApi::rawDiscHeader (
            std::string & header )
```

get raw disc header

Parameters

out	*header*	The buffer for disc header

Returns

NetMdErr

6.1.3.17 sendAudioFile()

```
int netmd::CNetMdApi::sendAudioFile (
            const std::string & filename,
            const std::string & title,
            DiskFormat otf )
```

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

6.1.3.18 setDiscTitle()

```
int netmd::CNetMdApi::setDiscTitle (
            const std::string & title )
```

Sets the disc title.

Parameters

in	*title*	The title

Returns

NetMdErr

6.1.3.19 setGroupTitle()

```
int netmd::CNetMdApi::setGroupTitle (
            uint16_t group,
            const std::string & title )
```

Sets the group title.

Parameters

in	*group*	The group
in	*title*	The title

Returns

NetMdErr

6.1.3.20 setLogLevel()

```
static void netmd::CNetMdApi::setLogLevel (
            int severity )  [static]
```

Sets the log level.

Parameters

in	*severity*	The severity

6.1.3.21 setLogStream()

```
static void netmd::CNetMdApi::setLogStream (
            std::ostream & os )  [static]
```

Sets the log stream.

Parameters

in	*os*	The stream instance to log to

6.1.3.22 setTrackTitle()

```
int netmd::CNetMdApi::setTrackTitle (
            uint16_t trackNo,
            const std::string & title )
```

Sets the track title.

Parameters

in	*trackNo*	The track no
in	*title*	The title

Returns

NetMdErr

6.1.3.23 spUploadSupported()

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

is SP upload supported?

Returns

true if yes

6.1.3.24 trackBitRate()

```
int netmd::CNetMdApi::trackBitRate (
            uint16_t track,
            AudioEncoding & encoding,
            uint8_t & channel )
```

get track bitrate data

Parameters

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

Returns

NetMdErr

6.1.3.25 trackCount()

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

request track count

Returns

< 0 -> NetMdErr; else -> track count

6.1.3.26 trackFlags()

```
int netmd::CNetMdApi::trackFlags (
            uint16_t track,
            TrackProtection & flags )
```

get track flags

Parameters

in	*track*	The track number
out	*flags*	The track flags

Returns

NetMdErr

6.1.3.27 trackTime()

```
int netmd::CNetMdApi::trackTime (
            int trackNo,
            TrackTime & trackTime )
```

get track time

Parameters

in	*trackNo*	The track no
out	*trackTime*	The track time

Returns

NetMdErr

6.1.3.28 trackTitle()

```
int netmd::CNetMdApi::trackTitle (
            uint16_t track,
            std::string & title )
```

get track title

Parameters

in	*track*	The track number
out	*title*	The track title

Returns

NetMdErr

6.1.3.29 writeRawDiscHeader()

```
int netmd::CNetMdApi::writeRawDiscHeader ( )
```

Writes a disc header.

Returns

NetMdErr

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

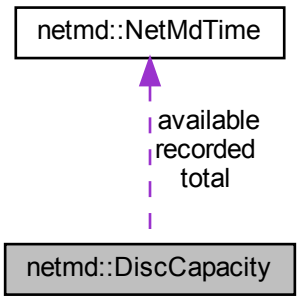
- /mnt/c/msys64/home/joergn/src/netmd_plusplus/include/CNetMdApi.h

6.2 netmd::DiscCapacity Struct Reference

Structure to hold the capacity information of a disc.

`#include <CNetMdApi.h>`

Collaboration diagram for netmd::DiscCapacity:



Public Attributes

- NetMdTime recorded

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

6.2.1 Detailed Description

Structure to hold the capacity information of a disc.

6.2.2 Member Data Documentation

6.2.2.1 available

`NetMdTime netmd::DiscCapacity::available`

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

6.2.2.2 recorded

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

Time allready recorded on the disc.

6.2.2.3 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/CNetMdApi.h

6.3 netmd::Group Struct Reference

track group

```
#include <CNetMdApi.h>
```

Public Attributes

- int mGid
  group id
- int16_t mFirst
  first track
- int16_t mLast
  last track
- std::string mName
  group name

6.3.1 Detailed Description

track group

6.3.2 Member Data Documentation

6.3.2.1 mFirst

```
int16_t netmd::Group::mFirst
```

first track

6.3.2.2 mGid

```
int netmd::Group::mGid
```

group id

6.3.2.3 mLast

```
int16_t netmd::Group::mLast
```

last track

6.3.2.4 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/CNetMdApi.h

6.4 netmd::NetMdTime Struct Reference

NetMD time.

```
#include <CNetMdApi.h>
```

Public Attributes

- uint16_t hour
  hour
- uint8_t minute
  minute
- uint8_t second
  second
- uint8_t frame
  frame

6.4.1 Detailed Description

NetMD time.

6.4.2 Member Data Documentation

6.4.2.1 frame

`uint8_t netmd::NetMdTime::frame`

frame

6.4.2.2 hour

`uint16_t netmd::NetMdTime::hour`

hour

6.4.2.3 minute

`uint8_t netmd::NetMdTime::minute`

minute

6.4.2.4 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/CNetMdApi.h

6.5 netmd::TrackTime Struct Reference

track times

`#include <CNetMdApi.h>`

Public Attributes

- int mMinutes
  time in minutes
- int mSeconds
  time in seconds
- int mTenthSecs
  time in 10ms

6.5.1 Detailed Description

track times

6.5.2 Member Data Documentation

6.5.2.1 mMinutes

```
int netmd::TrackTime::mMinutes
```

time in minutes

6.5.2.2 mSeconds

```
int netmd::TrackTime::mSeconds
```

time in seconds

6.5.2.3 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/CNetMdApi.h

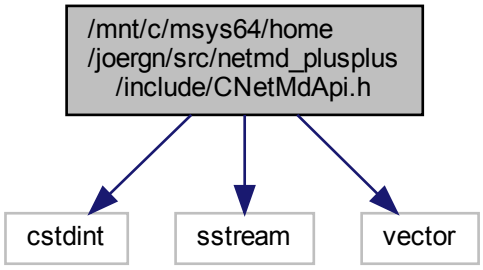
Chapter 7

File Documentation

7.1 /mnt/c/msys64/home/joergn/src/netmd_plusplus/include/CNetMd↩ Api.h File Reference

```
#include <cstdint>
#include <sstream>
#include <vector>
```

Include dependency graph for CNetMdApi.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

  This class describes a C++ NetMD access library.

Namespaces

- netmd

Typedefs

- using netmd::Groups = std::vector< Group >

  netmd groups

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

Functions

- std::ostream & netmd::operator<< (std::ostream &o, const TrackTime &tt)

  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

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