

BluNFC

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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

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com.blunfcproject.blunfc.logger.TextFileAppender	28
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com.blunfcproject.blunfc.nfc.ISO14443ACard	12
com.blunfcproject.blunfc.nfc.MifareCard	19
com.blunfcproject.blunfc.nfc.ISO14443ACardFrame	14
com.blunfcproject.blunfc.logger.Logable	15
com.blunfcproject.blunfc.logger.LogClient	16
com.blunfcproject.blunfc.logger.Logger	17
com.blunfcproject.blunfc.logger.LogLevel	18
com.blunfcproject.blunfc.nfc.NFCManager	22
com.blunfcproject.blunfc.DialogNFCMode.NFCModeListener	23
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com.blunfcproject.blunfc.logger.ViewAppender	29
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com.blunfcproject.blunfc.TextReadView	29

Chapter 2

Class Index

2.1 Class List

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

com.blunfcproject.blunfc.logger.Appendable	Interface for appending log data	5
com.blunfcproject.util.AsyncListener	Interface used as a listener	5
com.blunfcproject.blunfc.BankCardReadView	BankCardReadView shows the last transactions of a bank card	6
com.blunfcproject.bluetooth.BluetoothConnector	Singleton BluetoothConnector class to connect to BluetoothDevice	6
com.blunfcproject.bluetooth.BluetoothStream	BluetoothStream which handles sending and receiving data from and to a Bluetooth device	8
com.blunfcproject.blunfc.stream.BluNFCProtocol	Represents the protocol to the blunFC device	9
com.blunfcproject.blunfc.ButtonAdapter	ButtonAdapter is used to map Buttons to the MainActivity	10
com.blunfcproject.blunfc.nfc.Card	Represents an interface to a NFC card	10
com.blunfcproject.blunfc.DialogNFCMode		12
com.blunfcproject.blunfc.nfc.ISO14443ACard	Represents a ISO14443A card	12
com.blunfcproject.blunfc.nfc.ISO14443ACardFrame		14
com.blunfcproject.blunfc.ISO14443AReadView	ReadView used for ISO14443A cards	14
com.blunfcproject.blunfc.ISO14443AWriteView	WriteView used for ISO14443A cards	15
com.blunfcproject.blunfc.logger.Logable	Interface for different logging levels	15
com.blunfcproject.blunfc.logger.LogClient	LogClient holds a Logger with which it writes the logging data	16
com.blunfcproject.blunfc.logger.Logger	Singleton Logger used to write to certain Appendables	17
com.blunfcproject.blunfc.LoggingActivity		18
com.blunfcproject.blunfc.logger.LogLevel	Enum used for different log levels	18
com.blunfcproject.blunfc.MainActivity	MainActivity started after launching the application	19
com.blunfcproject.blunfc.nfc.MifareCard	Represents a Mifare card	19

com.blunfcproject.blunfc.MifareReadView	
ReadView used for Mifare cards	21
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WriteView used for Mifare cards	22
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Represents a stream wrapper for the InDataExchange command of the PN532	23
com.blunfcproject.blunfc.ReadActivity	
ReadActivity used for all reading operations on the NFC cards	24
com.blunfcproject.blunfc.nfc.ReaderWriterMode	
Represents the read/writer mode	24
com.blunfcproject.blunfc.SearchDevicesActivity	
Activity used to manage user input for bluetooth connection	25
com.blunfcproject.util.StateHandler	
StateHandler used to proceed Bluetooth states	26
com.blunfcproject.blunfc.stream.Streamable	
Represents a interface to a client stream	27
com.blunfcproject.blunfc.TagEmulationActivity	
TagEmulationActivity is the host Activity for tag emulation	28
com.blunfcproject.blunfc.logger.TextFileAppender	
TextFileAppender appends logging information to a text file	28
com.blunfcproject.blunfc.TextReadView	
TextReadView is used to show a view while NFC card is being read	29
com.blunfcproject.blunfc.logger.ViewAppender	29
com.blunfcproject.blunfc.WriteActivity	
WriteActivity used for all writing operations on the NFC cards	30

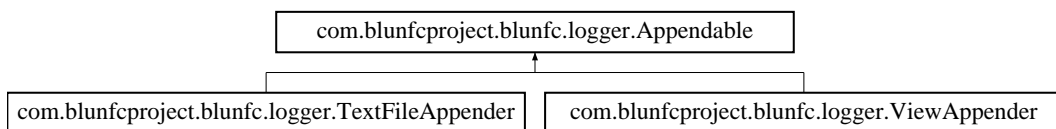
Chapter 3

Class Documentation

3.1 com.blunfcproject.blunfc.logger.Appendable Interface Reference

Interface for appending log data.

Inheritance diagram for com.blunfcproject.blunfc.logger.Appendable:



Public Member Functions

- void `append` (String message)
appends a log entry
- void `dispose` ()
disposes a log thread

3.1.1 Detailed Description

Interface for appending log data.

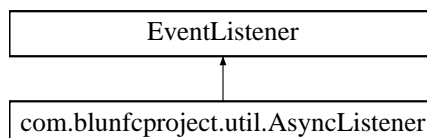
The documentation for this interface was generated from the following file:

- com/blunfcproject/blunfc/logger/Appendable.java

3.2 com.blunfcproject.util.AsyncListener Interface Reference

Interface used as a listener.

Inheritance diagram for com.blunfcproject.util.AsyncListener:



Public Member Functions

- void [onComplete](#) (Object sender)
Raise when a action completed.
- void [onError](#) (Object sender, Throwable error)
Raise when a action completed on error.

3.2.1 Detailed Description

Interface used as a listener.

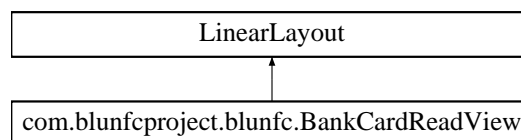
The documentation for this interface was generated from the following file:

- `com/blunfcproject/util/AsyncListener.java`

3.3 `com.blunfcproject.blunfc.BankCardReadView` Class Reference

[BankCardReadView](#) shows the last transactions of a bank card.

Inheritance diagram for `com.blunfcproject.blunfc.BankCardReadView`:



Public Member Functions

- **`BankCardReadView`** (Context context)
- **`BankCardReadView`** (Context context, [Card](#) card)

3.3.1 Detailed Description

[BankCardReadView](#) shows the last transactions of a bank card.

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

- `com/blunfcproject/blunfc/BankCardReadView.java`

3.4 `com.blunfcproject.bluetooth.BluetoothConnector` Class Reference

Singleton [BluetoothConnector](#) class to connect to `BluetoothDevice`.

Public Member Functions

- void [openSocket](#) ()
Opens a Bluetooth socket.
- void [setBluetoothDevice](#) (`BluetoothDevice` device)
Set the Bluetooth device to connect to.
- void [connect](#) () throws Exception

- Connects to a BluetoothDevice (blocking)*
- void [connectAsync](#) ()
 - Connects to a BluetoothDevice (non-blocking)*
- void [abort](#) ()
 - Aborts the asynchronous [connect\(\)](#)*
- void [disconnect](#) ()
 - Disconnects an established bluetooth connection.*
- int [getBluetoothState](#) ()
 - Retrieve the current bluetooth state.*
- [Streamable](#) [getStream](#) ()
 - Get the [BluetoothStream](#) to receive and transmit data.*
- final BluetoothSocket [getSocket](#) ()
 - Get the bluetooth socket.*
- void [registerReceivers](#) ()
 - Registers Bluetooth connection receivers.*
- void [unregisterReceivers](#) ()
 - Unregisters the Broadcast receiver.*
- synchronized void [setAsyncListener](#) ([AsyncListener](#) listener)
 - Sets a listener for an asynchronous event.*
- boolean [addHandler](#) (Handler handler)
 - Adds a handler which receives Bluetooth states.*
- boolean [removeHandler](#) (Handler handler)
 - Removes a handler.*

Static Public Member Functions

- static [BluetoothConnector](#) [getInstance](#) (BluetoothAdapter adapter, Context context)
 - Constructs a new [BluetoothConnector](#) object.*

Static Public Attributes

- static final int **STATE_NONE** = 0
- static final int **STATE_CONNECTING** = 1
- static final int **STATE_CONNECTED** = 2
- static final int **STATE_DISCONNECTING** = 3
- static final int **MESSAGE_STATE_CHANGE** = 1
- static final int **MESSAGE_ACTION_FOUND** = 2
- static final int **MESSAGE_ACTION_DISCOVERY_FINISHED** = 3

3.4.1 Detailed Description

Singleton [BluetoothConnector](#) class to connect to BluetoothDevice.

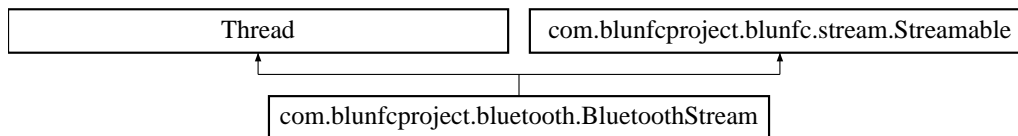
The documentation for this class was generated from the following file:

- com/blunfcproject/bluetooth/BluetoothConnector.java

3.5 com.blunfcproject.bluetooth.BluetoothStream Class Reference

[BluetoothStream](#) which handles sending and receiving data from and to a Bluetooth device.

Inheritance diagram for com.blunfcproject.bluetooth.BluetoothStream:



Public Member Functions

- [BluetoothStream](#) (BluetoothSocket socket)
Constructor of [BluetoothStream](#).
- byte[] [read](#) () throws Exception
Reads bytes from the stream.
- void [write](#) (byte[] data) throws Exception
Writes bytes to the stream.
- void [flush](#) ()
Flush input and output buffer.
- void [cancel](#) () throws Exception
Cancel a Bluetooth connection.

3.5.1 Detailed Description

[BluetoothStream](#) which handles sending and receiving data from and to a Bluetooth device.

3.5.2 Member Function Documentation

3.5.2.1 byte [] com.blunfcproject.bluetooth.BluetoothStream.read () throws Exception

Reads bytes from the stream.

Parameters

<i>data</i>	The data buffer, where the data will be written.
-------------	--

Returns

The amount of data which was received.

Implements [com.blunfcproject.blunfc.stream.Streamable](#).

3.5.2.2 void com.blunfcproject.bluetooth.BluetoothStream.write (byte[] data) throws Exception

Writes bytes to the stream.

Parameters

<i>data</i>	The data buffer, which should be send.
-------------	--

Implements [com.blunfcproject.blunfc.stream.Streamable](#).

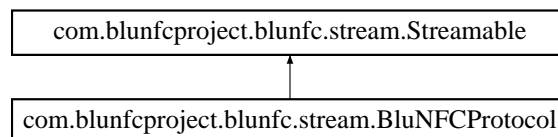
The documentation for this class was generated from the following file:

- com/blunfcproject/bluetooth/BluetoothStream.java

3.6 com.blunfcproject.blunfc.stream.BluNFCProtocol Class Reference

Represents the protocol to the bluNFC device.

Inheritance diagram for com.blunfcproject.blunfc.stream.BluNFCProtocol:



Public Member Functions

- [BluNFCProtocol](#) ([Streamable](#) stream)
Initializes a new [BluNFCProtocol](#) object.
- `byte[] read ()` throws Exception
Reads bytes from the stream.
- `void write (byte[] data)` throws Exception
Writes bytes to the stream.
- `void flush ()`
Flush input and output buffer.

3.6.1 Detailed Description

Represents the protocol to the bluNFC device.

3.6.2 Constructor & Destructor Documentation

3.6.2.1 com.blunfcproject.blunfc.stream.BluNFCProtocol.BluNFCProtocol ([Streamable](#) stream)

Initializes a new [BluNFCProtocol](#) object.

Parameters

<i>stream</i>	A stream to the serial connection.
---------------	------------------------------------

3.6.3 Member Function Documentation

3.6.3.1 `byte [] com.blunfcproject.blunfc.stream.BluNFCProtocol.read ()` throws Exception

Reads bytes from the stream.

Parameters

<i>data</i>	The data buffer, where the data will be written.
-------------	--

Returns

The amount of data which was received.

Implements [com.blunfcproject.blunfc.stream.Streamable](#).

3.6.3.2 void com.blunfcproject.blunfc.stream.BluNFCProtocol.write (byte[] data) throws Exception

Writes bytes to the stream.

Parameters

<i>data</i>	The data buffer, which should be send.
-------------	--

Implements [com.blunfcproject.blunfc.stream.Streamable](#).

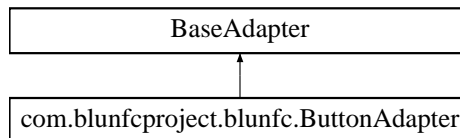
The documentation for this class was generated from the following file:

- com/blunfcproject/blunfc/stream/BluNFCProtocol.java

3.7 com.blunfcproject.blunfc.ButtonAdapter Class Reference

[ButtonAdapter](#) is used to map Buttons to the [MainActivity](#).

Inheritance diagram for com.blunfcproject.blunfc.ButtonAdapter:

**Public Member Functions**

- [ButtonAdapter](#) (Context c, SparseIntArray buttons)
Constructor of [ButtonAdapter](#).
- int **getCount** ()
- Object **getItem** (int pos)
- long **getItemId** (int pos)
- View **getView** (int pos, View convertView, ViewGroup parent)

3.7.1 Detailed Description

[ButtonAdapter](#) is used to map Buttons to the [MainActivity](#).

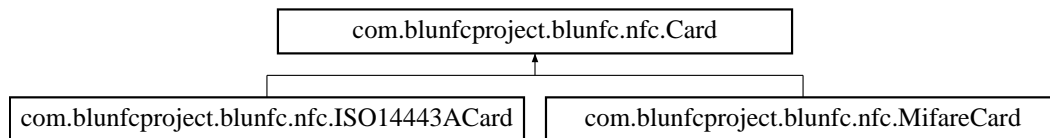
The documentation for this class was generated from the following file:

- com/blunfcproject/blunfc/ButtonAdapter.java

3.8 com.blunfcproject.blunfc.nfc.Card Interface Reference

Represents an interface to a NFC card.

Inheritance diagram for com.blunfcproject.blunfc.nfc.Card:



Public Member Functions

- LinearLayout [getReadView](#) (Context context)
Returns the read layout for a concrete card.
- LinearLayout [getWriteView](#) (Context context)
Returns the write layout for a concrete card.
- void [forceRead](#) () throws Exception
Forces the read operation and reads the whole memory.
- void [write](#) (byte[] data, byte sector) throws Exception
Writes some data to the card.
- void [delete](#) (byte sector) throws Exception
Deletes a sector.

3.8.1 Detailed Description

Represents an interface to a NFC card.

3.8.2 Member Function Documentation

3.8.2.1 void com.blunfcproject.blunfc.nfc.Card.delete (byte sector) throws Exception

Deletes a sector.

If no sector access is available, the whole card will be deleted.

Parameters

<i>The</i>	sector.
------------	---------

Implemented in [com.blunfcproject.blunfc.nfc.MifareCard](#), and [com.blunfcproject.blunfc.nfc.ISO14443ACard](#).

3.8.2.2 void com.blunfcproject.blunfc.nfc.Card.write (byte[] data, byte sector) throws Exception

Writes some data to the card.

Parameters

<i>data</i>	The data.
<i>sector</i>	The sector. In ISO14443 Card this parameter will be ignored.

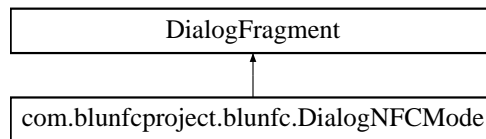
Implemented in [com.blunfcproject.blunfc.nfc.ISO14443ACard](#), and [com.blunfcproject.blunfc.nfc.MifareCard](#).

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

- com/blunfcproject/blunfc/nfc/Card.java

3.9 com.blunfcproject.blunfc.DialogNFCMode Class Reference

Inheritance diagram for com.blunfcproject.blunfc.DialogNFCMode:



Classes

- interface [NFCModeListener](#)
Interface that must be implemented (click listener)

Public Member Functions

- void **onAttach** (Activity act)
- Dialog **onCreateDialog** (Bundle savedInstanceState)

3.9.1 Detailed Description

[DialogNFCMode](#) is used to create the dialog to switch between TagEmulation mode and Reader/Writer mode

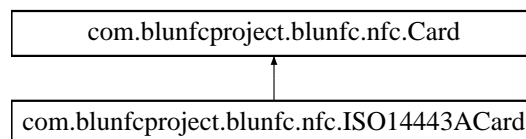
The documentation for this class was generated from the following file:

- com/blunfcproject/blunfc/DialogNFCMode.java

3.10 com.blunfcproject.blunfc.nfc.ISO14443ACard Class Reference

Represents a ISO14443A card.

Inheritance diagram for com.blunfcproject.blunfc.nfc.ISO14443ACard:



Public Member Functions

- [ISO14443ACard](#) ([Streamable](#) stream, byte[] uuid)
Initializes a new [ISO14443ACard](#) object.
- byte[] [read](#) () throws Exception
Reads the whole memory.
- void [append](#) (byte[] data) throws Exception
Appends a data packet to the card.
- void [delete](#) () throws Exception
Deletes the whole memory of the current application.
- LinearLayout [getReadView](#) (Context context)

- Returns the read layout for a concrete card.*
- LinearLayout [getWriteView](#) (Context context)
Returns the write layout for a concrete card.
- void [write](#) (byte[] data, byte sector) throws Exception
Writes some data to the card.
- void [delete](#) (byte sector) throws Exception
Deletes a sector.
- byte[] [getData](#) ()
Returns the previous read data.
- void [forceRead](#) () throws Exception
Forces the read operation and reads the whole memory.
- boolean [equals](#) (Object o)

3.10.1 Detailed Description

Represents a ISO14443A card.

3.10.2 Constructor & Destructor Documentation

3.10.2.1 com.blunfcproject.blunfc.nfc.ISO14443ACard.ISO14443ACard (Streamable *stream*, byte[] *uuid*)

Initializes a new [ISO14443ACard](#) object.

Parameters

<i>stream</i>	The communication stream.
<i>uuid</i>	The UUID of the card.

3.10.3 Member Function Documentation

3.10.3.1 void com.blunfcproject.blunfc.nfc.ISO14443ACard.append (byte[] *data*) throws Exception

Appends a data packet to the card.

Parameters

<i>data</i>	The data.
-------------	-----------

3.10.3.2 void com.blunfcproject.blunfc.nfc.ISO14443ACard.delete (byte *sector*) throws Exception

Deletes a sector.

If no sector access is available, the whole card will be deleted.

Parameters

<i>The</i>	sector.
------------	---------

Implements [com.blunfcproject.blunfc.nfc.Card](#).

3.10.3.3 byte [] com.blunfcproject.blunfc.nfc.ISO14443ACard.getData ()

Returns the previous read data.

Returns

The data.

3.10.3.4 `byte [] com.blunfcproject.blunfc.nfc.ISO14443ACard.read ()` throws Exception

Reads the whole memory.

Returns

The data.

3.10.3.5 `void com.blunfcproject.blunfc.nfc.ISO14443ACard.write (byte[] data, byte sector)` throws Exception

Writes some data to the card.

Parameters

<i>data</i>	The data.
<i>sector</i>	The sector. In ISO14443 Card this parameter will be ignored.

Implements [com.blunfcproject.blunfc.nfc.Card](#).

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

- `com/blunfcproject/blunfc/nfc/ISO14443ACard.java`

3.11 `com.blunfcproject.blunfc.nfc.ISO14443ACardFrame` Enum Reference**Public Member Functions**

- void **data** (byte[] data)
- byte[] **toArray** () throws Exception

Public Attributes

- **ApduRequest** =(0x00, 0xA4, 0x04, 0x00, 0x00)
- **WriteRequest** =(0x80, 0x14, 0x00, 0x00, 0x00)
- **ReadRequest** =(0x80, 0x12, 0x00, 0x00, 0x00)
- **DeleteRequest** =(0x80, 0x16, 0x00, 0x00, 0x00)

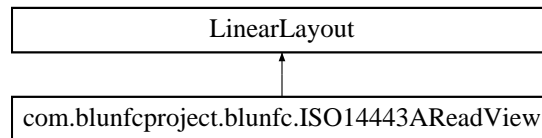
The documentation for this enum was generated from the following file:

- `com/blunfcproject/blunfc/nfc/ISO14443ACardFrame.java`

3.12 `com.blunfcproject.blunfc.ISO14443AReadView` Class Reference

ReadView used for ISO14443A cards.

Inheritance diagram for `com.blunfcproject.blunfc.ISO14443AReadView`:



Public Member Functions

- [ISO14443AReadView](#) (Context context, [ISO14443ACard](#) card)
Constructor of [ISO14443AReadView](#).

3.12.1 Detailed Description

ReadView used for ISO14443A cards.

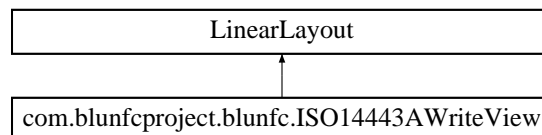
The documentation for this class was generated from the following file:

- `com/blunfcproject/blunfc/ISO14443AReadView.java`

3.13 com.blunfcproject.blunfc.ISO14443AWriteView Class Reference

WriteView used for ISO14443A cards.

Inheritance diagram for `com.blunfcproject.blunfc.ISO14443AWriteView`:



Public Member Functions

- [ISO14443AWriteView](#) (Context context, [ISO14443ACard](#) card)
Constructor of [ISO14443AWriteView](#).

3.13.1 Detailed Description

WriteView used for ISO14443A cards.

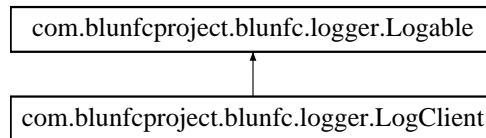
The documentation for this class was generated from the following file:

- `com/blunfcproject/blunfc/ISO14443AWriteView.java`

3.14 com.blunfcproject.blunfc.logger.Logable Interface Reference

Interface for different logging levels.

Inheritance diagram for `com.blunfcproject.blunfc.logger.Logable`:



Public Member Functions

- void [scope](#) (String message)
Logging level scope.
- void [info](#) (String message)
Logging level info.
- void [debug](#) (String message)
Logging level debug.
- void [warning](#) (String message)
Logging level warning.
- void [error](#) (String message)
Logging level error.
- void [fatal](#) (String message)
Logging level fatal.

3.14.1 Detailed Description

Interface for different logging levels.

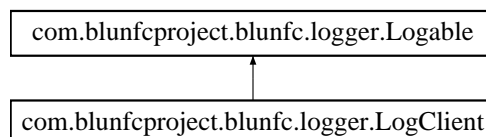
The documentation for this interface was generated from the following file:

- com/blunfcproject/blunfc/logger/Logable.java

3.15 com.blunfcproject.blunfc.logger.LogClient Class Reference

[LogClient](#) holds a [Logger](#) with which it writes the logging data.

Inheritance diagram for com.blunfcproject.blunfc.logger.LogClient:



Public Member Functions

- [LogClient](#) (String name)
Constructor of [LogClient](#).
- void [scope](#) (String message)
Logging level scope.
- void [info](#) (String message)
Logging level info.
- void [debug](#) (String message)

Logging level debug.

- void [warning](#) (String message)

Logging level warning.

- void [error](#) (String message)

Logging level error.

- void [fatal](#) (String message)

Logging level fatal.

3.15.1 Detailed Description

[LogClient](#) holds a [Logger](#) with which it writes the logging data.

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

- com/blunfcproject/blunfc/logger/LogClient.java

3.16 com.blunfcproject.blunfc.logger.Logger Class Reference

Singleton [Logger](#) used to write to certain Appendables.

Public Member Functions

- void [addAppender](#) ([Appendable](#) appendable)
adds an [Appendable](#) to the list
- void [removeAppender](#) ([Appendable](#) appendable)
removes an [Appendable](#) from the list
- void [dispose](#) ()
stops all running logger threads
- void [append](#) ([LogLevel](#) l, String message)
appends a log to all Appendables
- void [setLogLevel](#) ([LogLevel](#) l)
sets the current log level

Static Public Member Functions

- static void [init](#) (Context context)
initializes the logger
- static [Logger](#) [getInstance](#) ()
singleton instance from [Logger](#)

3.16.1 Detailed Description

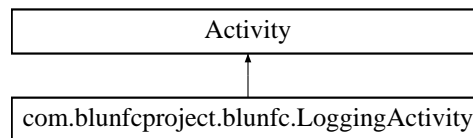
Singleton [Logger](#) used to write to certain Appendables.

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

- com/blunfcproject/blunfc/logger/Logger.java

3.17 com.blunfcproject.blunfc.LoggingActivity Class Reference

Inheritance diagram for com.blunfcproject.blunfc.LoggingActivity:



Public Member Functions

- boolean **onCreateOptionsMenu** (Menu menu)

Protected Member Functions

- void **onCreate** (Bundle savedInstanceState)

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

- com/blunfcproject/blunfc/LoggingActivity.java

3.18 com.blunfcproject.blunfc.logger.LogLevel Enum Reference

Enum used for different log levels.

Public Member Functions

- String **toString** ()
Returns the [LogLevel](#) as string.

Static Public Member Functions

- static [LogLevel](#) **fromInt** (int x)
Retrieve log level from int.

Public Attributes

- **SCOPE**
- **INFO**
- **DEBUG**
- **WARNING**
- **ERROR**

3.18.1 Detailed Description

Enum used for different log levels.

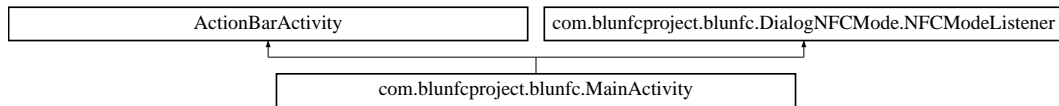
The documentation for this enum was generated from the following file:

- com/blunfcproject/blunfc/logger/LogLevel.java

3.19 com.blunfcproject.blunfc.MainActivity Class Reference

[MainActivity](#) started after launching the application.

Inheritance diagram for com.blunfcproject.blunfc.MainActivity:



Public Member Functions

- boolean **onCreateOptionsMenu** (Menu menu)
- boolean **onOptionsItemSelected** (MenuItem item)
- void **finish** ()
App termination dialog.
- void **onDialogReaderWriterClick** (DialogFragment dialog)
On click reader writer mode.
- void **onDialogTagEmulationClick** (DialogFragment dialog)
On click tag emulation mode.

Protected Member Functions

- void **onCreate** (Bundle savedInstanceState)
- void **onResume** ()

3.19.1 Detailed Description

[MainActivity](#) started after launching the application.

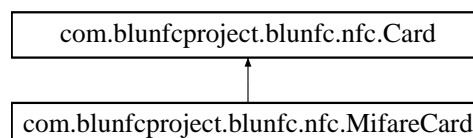
The documentation for this class was generated from the following file:

- com/blunfcproject/blunfc/MainActivity.java

3.20 com.blunfcproject.blunfc.nfc.MifareCard Class Reference

Represents a Mifare card.

Inheritance diagram for com.blunfcproject.blunfc.nfc.MifareCard:



Public Member Functions

- [MifareCard](#) ([Streamable](#) stream, byte[] uuid)
Initializes a new [MifareCard](#) object.

- byte[] [read](#) (byte sector) throws Exception
Reads a sector.
- byte[] [getSector](#) (byte sector) throws Exception
Returns a previous read sector.
- void [write](#) (byte[] data, byte sector) throws Exception
Writes a sector.
- LinearLayout [getReadView](#) (Context context)
Returns the read layout for a concrete card.
- LinearLayout [getWriteView](#) (Context context)
Returns the write layout for a concrete card.
- void [delete](#) (byte sector) throws Exception
Deletes a sector.
- void [forceRead](#) ()
Forces the read operation and reads the whole memory.
- boolean [equals](#) (Object o)

Public Attributes

- final byte **mSectorCount** = 16

3.20.1 Detailed Description

Represents a Mifare card.

3.20.2 Constructor & Destructor Documentation

3.20.2.1 `com.blunfcproject.blunfc.nfc.MifareCard.MifareCard (Streamable stream, byte[] uuid)`

Initializes a new [MifareCard](#) object.

Parameters

<i>stream</i>	The communication stream.
<i>uuid</i>	The UUID of the card.

3.20.3 Member Function Documentation

3.20.3.1 `void com.blunfcproject.blunfc.nfc.MifareCard.delete (byte sector) throws Exception`

Deletes a sector.

If no sector access is available, the whole card will be deleted.

Parameters

<i>The</i>	sector.
------------	---------

Implements [com.blunfcproject.blunfc.nfc.Card](#).

3.20.3.2 `byte [] com.blunfcproject.blunfc.nfc.MifareCard.getSector (byte sector) throws Exception`

Returns a previous read sector.

Parameters

<i>sector</i>	The sector which should be read.
---------------	----------------------------------

Returns

The sector data.

3.20.3.3 `byte [] com.blunfcproject.blunfc.nfc.MifareCard.read (byte sector)` throws Exception

Reads a sector.

Parameters

<i>sector</i>	The sector which should be read.
---------------	----------------------------------

3.20.3.4 `void com.blunfcproject.blunfc.nfc.MifareCard.write (byte[] data, byte sector)` throws Exception

Writes a sector.

Parameters

<i>data</i>	The data.
<i>sector</i>	The sector.

Implements [com.blunfcproject.blunfc.nfc.Card](#).

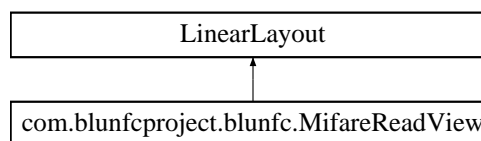
The documentation for this class was generated from the following file:

- `com/blunfcproject/blunfc/nfc/MifareCard.java`

3.21 com.blunfcproject.blunfc.MifareReadView Class Reference

ReadView used for Mifare cards.

Inheritance diagram for `com.blunfcproject.blunfc.MifareReadView`:



Public Member Functions

- **MifareReadView** (Context context, [MifareCard](#) card)
- `TextView` [getSector](#) (int pos)

Returns a TextView representing a mifare sector.

3.21.1 Detailed Description

ReadView used for Mifare cards.

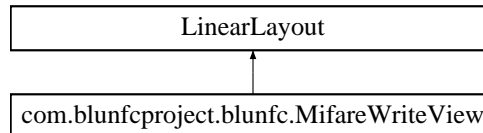
The documentation for this class was generated from the following file:

- [com/blunfcproject/blunfc/MifareReadView.java](#)

3.22 com.blunfcproject.blunfc.MifareWriteView Class Reference

WriteView used for Mifare cards.

Inheritance diagram for com.blunfcproject.blunfc.MifareWriteView:



Public Member Functions

- [MifareWriteView](#) (Context context, [MifareCard](#) card)
Constructor of [ISO14443AWriteView](#).

3.22.1 Detailed Description

WriteView used for Mifare cards.

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

- [com/blunfcproject/blunfc/MifareWriteView.java](#)

3.23 com.blunfcproject.blunfc.nfc.NFCManager Class Reference

Represents a NFC reader.

Public Member Functions

- byte[] **read** ()
- void **readAsync** () throws Exception
- void **writeAsync** (byte[] data, byte sector) throws Exception
- void **deleteAsync** (byte sector) throws Exception
- [Card](#) **getCard** ()
- void **setListener** ([AsyncListener](#) listener)

Static Public Member Functions

- static [NFCManager](#) **getInstance** ([Streamable](#) stream) throws Exception

3.23.1 Detailed Description

Represents a NFC reader.

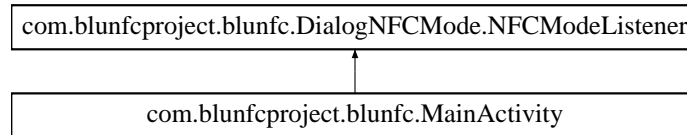
The documentation for this class was generated from the following file:

- [com/blunfcproject/blunfc/nfc/NFCManager.java](#)

3.24 com.blunfproject.blunfc.DialogNFCMode.NFCModeListener Interface Reference

Interface that must be implemented (click listener)

Inheritance diagram for com.blunfproject.blunfc.DialogNFCMode.NFCModeListener:



Public Member Functions

- void [onDialogReaderWriterClick](#) (DialogFragment dialog)
On click reader writer mode.
- void [onDialogTagEmulationClick](#) (DialogFragment dialog)
On click tag emulation mode.

3.24.1 Detailed Description

Interface that must be implemented (click listener)

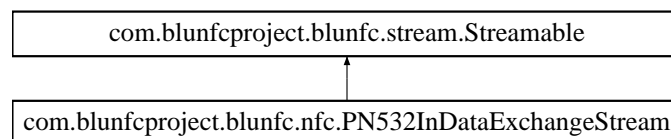
The documentation for this interface was generated from the following file:

- com/blunfproject/blunfc/DialogNFCMode.java

3.25 com.blunfproject.blunfc.nfc.PN532InDataExchangeStream Class Reference

Represents a stream wrapper for the InDataExchange command of the PN532.

Inheritance diagram for com.blunfproject.blunfc.nfc.PN532InDataExchangeStream:



Public Member Functions

- [PN532InDataExchangeStream](#) ([Streamable](#) stream)
Initializes a new [PN532InDataExchangeStream](#) object.
- byte[] [read](#) () throws Exception
Returns the data which was read without the Command-Overhead.
- void [write](#) (byte[] data) throws Exception
Writes the data with the Command-Overhead.
- void [flush](#) ()
Flush input and output buffer.

3.25.1 Detailed Description

Represents a stream wrapper for the InDataExchange command of the PN532.

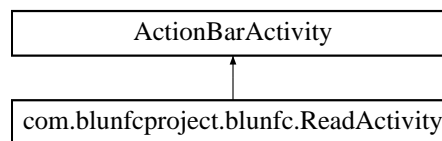
The documentation for this class was generated from the following file:

- com/blunfcproject/blunfc/nfc/PN532InDataExchangeStream.java

3.26 com.blunfcproject.blunfc.ReadActivity Class Reference

[ReadActivity](#) used for all reading operations on the NFC cards.

Inheritance diagram for com.blunfcproject.blunfc.ReadActivity:



Public Member Functions

- boolean **onCreateOptionsMenu** (Menu menu)
- boolean **onOptionsItemSelected** (MenuItem menuItem)

Protected Member Functions

- void **onCreate** (Bundle savedInstanceState)
- void **onDestroy** ()

3.26.1 Detailed Description

[ReadActivity](#) used for all reading operations on the NFC cards.

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

- com/blunfcproject/blunfc/ReadActivity.java

3.27 com.blunfcproject.blunfc.nfc.ReaderWriterMode Class Reference

Represents the read/writer mode.

Public Member Functions

- [ReaderWriterMode](#) ([Streamable](#) stream)
Initializes a new [ReaderWriterMode](#) object.
- [Card scan](#) () throws Exception
Scans if a card is in the RF field.

3.27.1 Detailed Description

Represents the read/writer mode.

3.27.2 Constructor & Destructor Documentation

3.27.2.1 com.blunfproject.blunfc.nfc.ReaderWriterMode.ReaderWriterMode (Streamable stream)

Initializes a new [ReaderWriterMode](#) object.

Parameters

<i>stream</i>	The connection stream.
---------------	------------------------

3.27.3 Member Function Documentation

3.27.3.1 Card com.blunfproject.blunfc.nfc.ReaderWriterMode.scan () throws Exception

Scans if a card is in the RF field.

Returns

The card which was found.

Exceptions

<i>TimeoutException</i>	When no response was received after a period.
<i>IllegalArgumentException</i>	When the response doesn't fit.

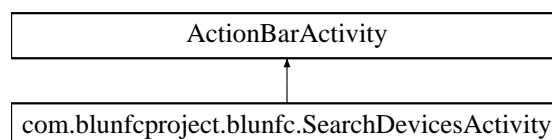
The documentation for this class was generated from the following file:

- com/blunfproject/blunfc/nfc/ReaderWriterMode.java

3.28 com.blunfproject.blunfc.SearchDevicesActivity Class Reference

Activity used to manage user input for bluetooth connection.

Inheritance diagram for com.blunfproject.blunfc.SearchDevicesActivity:



Public Member Functions

- boolean **onCreateOptionsMenu** (Menu menu)
- boolean **onOptionsItemSelected** (MenuItem menuItem)

Static Public Attributes

- static final int **MESSAGE_STATE_CHANGE** = 1

- static final int **MESSAGE_ACTION_FOUND** = 2
- static final int **MESSAGE_ACTION_DISCOVERY_FINISHED** = 3

Protected Member Functions

- void **onCreate** (Bundle savedInstanceState)
- void **onResume** ()
- void **onPause** ()
- void **onDestroy** ()
- void **onActivityResult** (int requestCode, int resultCode, Intent data)
check bluetooth state if activity brought result

3.28.1 Detailed Description

Activity used to manage user input for bluetooth connection.

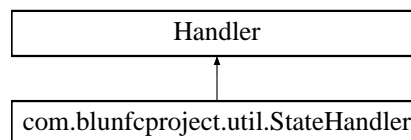
The documentation for this class was generated from the following file:

- com/blunfcproject/blunfc/SearchDevicesActivity.java

3.29 com.blunfcproject.util.StateHandler Class Reference

[StateHandler](#) used to proceed Bluetooth states.

Inheritance diagram for com.blunfcproject.util.StateHandler:



Public Member Functions

- void **setMenu** (Menu menu)
Set the menu to be updated.
- void **setButton** (Button button)
Set the button to be updated.
- void **handleMessage** (Message msg)

Static Public Attributes

- static final int **MESSAGE_STATE_CHANGE** = 1
- static final int **MESSAGE_ACTION_FOUND** = 2
- static final int **MESSAGE_ACTION_DISCOVERY_FINISHED** = 3

3.29.1 Detailed Description

[StateHandler](#) used to proceed Bluetooth states.

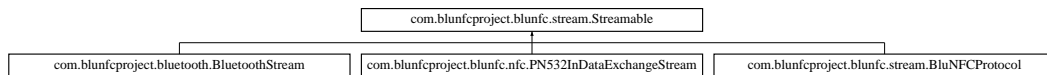
The documentation for this class was generated from the following file:

- com/blunfcproject/util/StateHandler.java

3.30 com.blunfcproject.blunfc.stream.Streamable Interface Reference

Represents a interface to a client stream.

Inheritance diagram for com.blunfcproject.blunfc.stream.Streamable:



Public Member Functions

- `byte[] read ()` throws Exception
Reads bytes from the stream.
- `void write (byte[] data)` throws Exception
Writes bytes to the stream.
- `void flush ()`
Flush input and output buffer.

3.30.1 Detailed Description

Represents a interface to a client stream.

3.30.2 Member Function Documentation

3.30.2.1 `byte [] com.blunfcproject.blunfc.stream.Streamable.read ()` throws Exception

Reads bytes from the stream.

Parameters

<i>data</i>	The data buffer, where the data will be written.
-------------	--

Returns

The amount of data which was received.

Implemented in [com.blunfcproject.bluetooth.BluetoothStream](#), [com.blunfcproject.blunfc.stream.BluNFCProtocol](#), and [com.blunfcproject.blunfc.nfc.PN532InDataExchangeStream](#).

3.30.2.2 `void com.blunfcproject.blunfc.stream.Streamable.write (byte[] data)` throws Exception

Writes bytes to the stream.

Parameters

<i>data</i>	The data buffer, which should be send.
-------------	--

Implemented in [com.blunfcproject.bluetooth.BluetoothStream](#), [com.blunfcproject.blunfc.stream.BluNFCProtocol](#), and [com.blunfcproject.blunfc.nfc.PN532InDataExchangeStream](#).

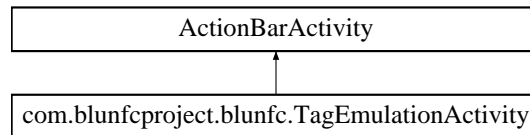
The documentation for this interface was generated from the following file:

- `com/blunfcproject/blunfc/stream/Streamable.java`

3.31 com.blunfcproject.blunfc.TagEmulationActivity Class Reference

[TagEmulationActivity](#) is the host Activity for tag emulation.

Inheritance diagram for com.blunfcproject.blunfc.TagEmulationActivity:



Public Member Functions

- boolean **onCreateOptionsMenu** (Menu menu)
- boolean **onOptionsItemSelected** (MenuItem menuItem)

Protected Member Functions

- void **onCreate** (Bundle savedInstanceState)

3.31.1 Detailed Description

[TagEmulationActivity](#) is the host Activity for tag emulation.

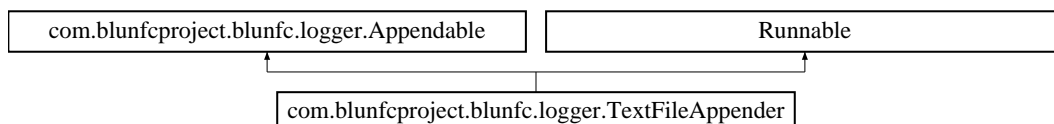
The documentation for this class was generated from the following file:

- com/blunfcproject/blunfc/TagEmulationActivity.java

3.32 com.blunfcproject.blunfc.logger.TextFileAppender Class Reference

[TextFileAppender](#) appends logging information to a text file.

Inheritance diagram for com.blunfcproject.blunfc.logger.TextFileAppender:



Public Member Functions

- **TextFileAppender** (Context context)
- void **append** (String message)
 - appends a log entry*
- void **dispose** ()
 - disposes a log thread*
- void **run** ()

3.32.1 Detailed Description

[TextFileAppender](#) appends logging information to a text file.

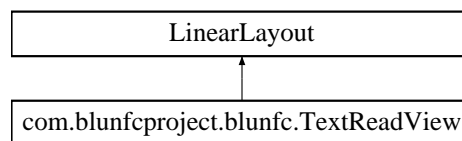
The documentation for this class was generated from the following file:

- com/blunfcproject/blunfc/logger/TextFileAppender.java

3.33 com.blunfcproject.blunfc.TextView Class Reference

[TextView](#) is used to show a view while NFC card is being read.

Inheritance diagram for com.blunfcproject.blunfc.TextView:



Public Member Functions

- [TextView](#) (Context context)
Constructor of [TextView](#).

3.33.1 Detailed Description

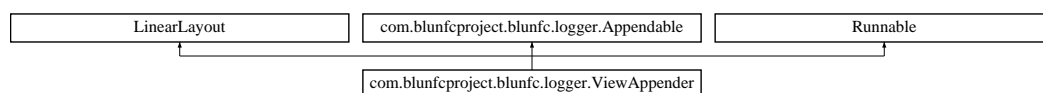
[TextView](#) is used to show a view while NFC card is being read.

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

- com/blunfcproject/blunfc/TextView.java

3.34 com.blunfcproject.blunfc.logger.ViewAppender Class Reference

Inheritance diagram for com.blunfcproject.blunfc.logger.ViewAppender:



Public Member Functions

- **ViewAppender** (Activity a)
- void [append](#) (String message)
appends a log entry
- void [dispose](#) ()
disposes a log thread
- void **run** ()
- void **updateUI** (final String m)

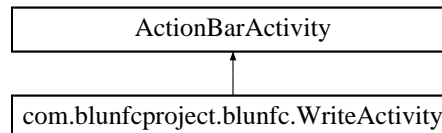
The documentation for this class was generated from the following file:

- `com/blunfcproject/blunfc/logger/ViewAppender.java`

3.35 `com.blunfcproject.blunfc.WriteActivity` Class Reference

[WriteActivity](#) used for all writing operations on the NFC cards.

Inheritance diagram for `com.blunfcproject.blunfc.WriteActivity`:



Public Member Functions

- boolean **onCreateOptionsMenu** (Menu menu)
- boolean **onOptionsItemSelected** (MenuItem menuItem)

Protected Member Functions

- void **onCreate** (Bundle savedInstanceState)
- void **onDestroy** ()

3.35.1 Detailed Description

[WriteActivity](#) used for all writing operations on the NFC cards.

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

- `com/blunfcproject/blunfc/WriteActivity.java`

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