

QtXBee

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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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## Chapter 2

# Class Index

### 2.1 Class List

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## Chapter 3

# File Index

### 3.1 File List

Here is a list of all files with brief descriptions:

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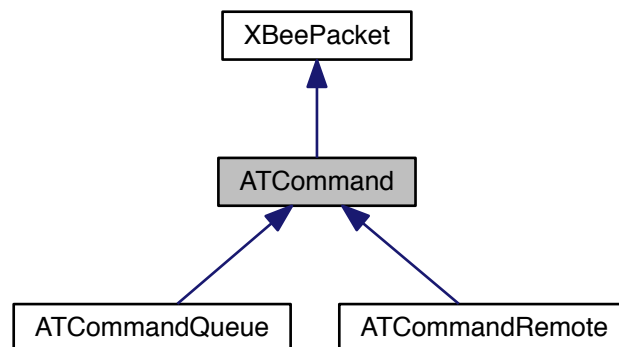


## Chapter 4

# Class Documentation

### 4.1 ATCommand Class Reference

Inheritance diagram for ATCommand:



#### Public Member Functions

- [ATCommand](#) ()
- virtual uint8\_t [getFrameType](#) () const
- uint8\_t [getFrameID](#) ()
- QByteArray [getATCommand](#) ()
- QByteArray [getATParameter](#) ()
- virtual QByteArray [getFrameData](#) ()
- void [setFrameID](#) (uint8\_t)
- void [setATCommand](#) (QString)
- void [setATParameter](#) (QByteArray array)
- virtual void [setFrameData](#) (QByteArray)
- virtual [~ATCommand](#) ()

## Additional Inherited Members

### 4.1.1 Constructor & Destructor Documentation

4.1.1.1 `ATCommand::ATCommand ( )`

4.1.1.2 `virtual ATCommand::~~ATCommand ( )` `[virtual]`

### 4.1.2 Member Function Documentation

4.1.2.1 `QByteArray ATCommand::getATCommand ( )`

4.1.2.2 `QByteArray ATCommand::getATParameter ( )`

4.1.2.3 `virtual QByteArray ATCommand::getFrameData ( )` `[virtual]`

Implements [XBeePacket](#).

Reimplemented in [ATCommandRemote](#).

4.1.2.4 `uint8_t ATCommand::getFrameID ( )`

4.1.2.5 `virtual uint8_t ATCommand::getFrameType ( ) const` `[inline], [virtual]`

Implements [XBeePacket](#).

Reimplemented in [ATCommandRemote](#), and [ATCommandQueue](#).

4.1.2.6 `void ATCommand::setATCommand ( QString )`

4.1.2.7 `void ATCommand::setATParameter ( QByteArray array )`

4.1.2.8 `virtual void ATCommand::setFrameData ( QByteArray )` `[virtual]`

Implements [XBeePacket](#).

Reimplemented in [ATCommandRemote](#).

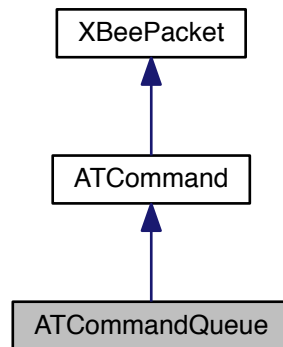
4.1.2.9 `void ATCommand::setFrameID ( uint8_t )`

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

- `src/QXBee/XBeePacket/ATCommand.h`

## 4.2 ATCommandQueue Class Reference

Inheritance diagram for ATCommandQueue:



### Public Member Functions

- virtual uint8\_t [getFrameType](#) () const

### Additional Inherited Members

#### 4.2.1 Member Function Documentation

4.2.1.1 virtual uint8\_t ATCommandQueue::getFrameType ( ) const [inline],[virtual]

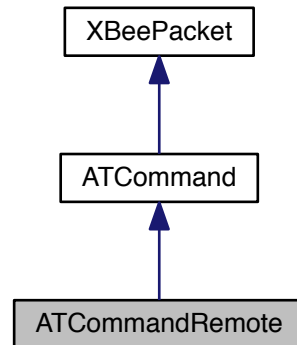
Reimplemented from [ATCommand](#).

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

- src/QXBee/XBeePacket/[ATCommandQueue.h](#)

## 4.3 ATCommandRemote Class Reference

Inheritance diagram for ATCommandRemote:



### Public Member Functions

- [ATCommandRemote](#) ( )
- virtual uint8\_t [getFrameType](#) ( ) const
- QByteArray [getDestinationAddress64](#) ( )
- QByteArray [getDestinationAddress16](#) ( )
- uint8\_t [getCommandOptions](#) ( )
- QByteArray [getFrameData](#) ( )
- void [setDestinationAddress64](#) (QByteArray)
- void [setDestinationAddress16](#) (QByteArray)
- void [setCommandOptions](#) (uint8\_t)
- void [setFrameData](#) (QByteArray)

### Additional Inherited Members

#### 4.3.1 Constructor & Destructor Documentation

4.3.1.1 `ATCommandRemote::ATCommandRemote ( )`

#### 4.3.2 Member Function Documentation

4.3.2.1 `uint8_t ATCommandRemote::getCommandOptions ( )`

4.3.2.2 `QByteArray ATCommandRemote::getDestinationAddress16 ( )`

4.3.2.3 `QByteArray ATCommandRemote::getDestinationAddress64 ( )`

4.3.2.4 `QByteArray ATCommandRemote::getFrameData ( )` [virtual]

Reimplemented from [ATCommand](#).

4.3.2.5 `virtual uint8_t ATCommandRemote::getFrameType ( ) const` `[inline],[virtual]`

Reimplemented from [ATCommand](#).

4.3.2.6 `void ATCommandRemote::setCommandOptions ( uint8_t )`

4.3.2.7 `void ATCommandRemote::setDestinationAddress16 ( QByteArray )`

4.3.2.8 `void ATCommandRemote::setDestinationAddress64 ( QByteArray )`

4.3.2.9 `void ATCommandRemote::setFrameData ( QByteArray )` `[virtual]`

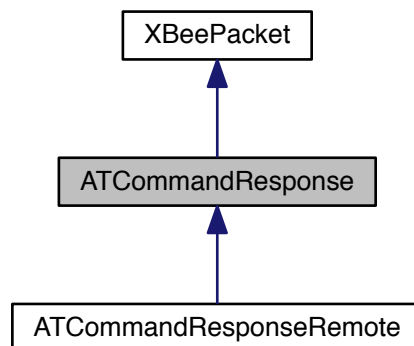
Reimplemented from [ATCommand](#).

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

- `src/QXBee/XBeePacket/ATCommandRemote.h`

## 4.4 ATCommandResponse Class Reference

Inheritance diagram for ATCommandResponse:



### Public Member Functions

- [ATCommandResponse](#) ( )
- `virtual uint8_t getFrameType ( ) const`
- `uint8_t getFrameID ( )`
- `QString getATCommand ( )`
- `uint8_t getCommandStatus ( )`
- `QByteArray getCommandData ( )`
- `virtual QByteArray getFrameData ( )`
- `virtual void setFrameData (QByteArray)`
- `virtual ~ATCommandResponse ( )`

## Protected Member Functions

- void [setFrameID](#) (uint8\_t)
- void [setATCommand](#) (QString)
- void [setCommandStatus](#) (uint8\_t)
- void [setCommandData](#) (QByteArray)

## Additional Inherited Members

### 4.4.1 Constructor & Destructor Documentation

4.4.1.1 [ATCommandResponse::ATCommandResponse](#) ( )

4.4.1.2 [virtual ATCommandResponse::~~ATCommandResponse](#) ( ) [virtual]

### 4.4.2 Member Function Documentation

4.4.2.1 [QString ATCommandResponse::getATCommand](#) ( )

4.4.2.2 [QByteArray ATCommandResponse::getCommandData](#) ( )

4.4.2.3 [uint8\\_t ATCommandResponse::getCommandStatus](#) ( )

4.4.2.4 [virtual QByteArray ATCommandResponse::getFrameData](#) ( ) [virtual]

Implements [XBeePacket](#).

Reimplemented in [ATCommandResponseRemote](#).

4.4.2.5 [uint8\\_t ATCommandResponse::getFrameID](#) ( )

4.4.2.6 [virtual uint8\\_t ATCommandResponse::getFrameType](#) ( ) const [inline],[virtual]

Implements [XBeePacket](#).

Reimplemented in [ATCommandResponseRemote](#).

4.4.2.7 [void ATCommandResponse::setATCommand](#) ( QString ) [protected]

4.4.2.8 [void ATCommandResponse::setCommandData](#) ( QByteArray ) [protected]

4.4.2.9 [void ATCommandResponse::setCommandStatus](#) ( uint8\_t ) [protected]

4.4.2.10 [virtual void ATCommandResponse::setFrameData](#) ( QByteArray ) [virtual]

Implements [XBeePacket](#).

Reimplemented in [ATCommandResponseRemote](#).

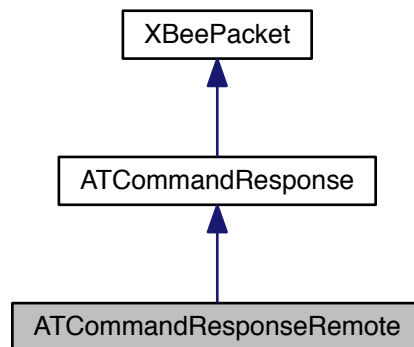
4.4.2.11 void ATCommandResponse::setFrameID ( uint8\_t ) [protected]

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

- src/QXBee/XBeePacket/ATCommandResponse.h

## 4.5 ATCommandResponseRemote Class Reference

Inheritance diagram for ATCommandResponseRemote:



### Public Member Functions

- [ATCommandResponseRemote](#) ()
- virtual uint8\_t [getFrameType](#) () const
- QByteArray [getSourceAddress64](#) ()
- QByteArray [getSourceAddress16](#) ()
- QByteArray [getFrameData](#) ()
- void [setFrameData](#) (QByteArray)

### Protected Member Functions

- void [setSourceAddress64](#) (QByteArray)
- void [setSourceAddress16](#) (QByteArray)

### Additional Inherited Members

#### 4.5.1 Constructor & Destructor Documentation

4.5.1.1 ATCommandResponseRemote::ATCommandResponseRemote ( )

#### 4.5.2 Member Function Documentation

4.5.2.1 QByteArray ATCommandResponseRemote::getFrameData ( ) [virtual]

Reimplemented from [ATCommandResponse](#).

4.5.2.2 `virtual uint8_t ATCommandResponseRemote::getFrameType ( ) const` `[inline],[virtual]`

Reimplemented from [ATCommandResponse](#).

4.5.2.3 `QByteArray ATCommandResponseRemote::getSourceAddress16 ( )`

4.5.2.4 `QByteArray ATCommandResponseRemote::getSourceAddress64 ( )`

4.5.2.5 `void ATCommandResponseRemote::setFrameData ( QByteArray )` `[virtual]`

Reimplemented from [ATCommandResponse](#).

4.5.2.6 `void ATCommandResponseRemote::setSourceAddress16 ( QByteArray )` `[protected]`

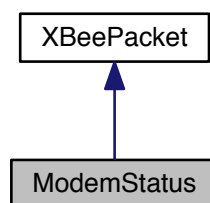
4.5.2.7 `void ATCommandResponseRemote::setSourceAddress64 ( QByteArray )` `[protected]`

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

- `src/QXBee/XBeePacket/ATCommandResponseRemote.h`

## 4.6 ModemStatus Class Reference

Inheritance diagram for ModemStatus:



### Public Member Functions

- [ModemStatus](#) ( )
- `virtual uint8_t getFrameType ( ) const`
- `uint8_t getStatus ( )`
- `QByteArray getFrameData ( )`
- `void setFrameData (QByteArray)`
- `virtual ~ModemStatus ( )`



### Protected Member Functions

- void [setStatus](#) (uint8\_t)

### Additional Inherited Members

#### 4.6.1 Constructor & Destructor Documentation

4.6.1.1 `ModemStatus::ModemStatus ( )`

4.6.1.2 `virtual ModemStatus::~~ModemStatus ( )` [virtual]

#### 4.6.2 Member Function Documentation

4.6.2.1 `QByteArray ModemStatus::getFrameData ( )` [virtual]

Implements [XBeePacket](#).

4.6.2.2 `virtual uint8_t ModemStatus::getFrameType ( ) const` [inline],[virtual]

Implements [XBeePacket](#).

4.6.2.3 `uint8_t ModemStatus::getStatus ( )`

4.6.2.4 `void ModemStatus::setFrameData ( QByteArray )` [virtual]

Implements [XBeePacket](#).

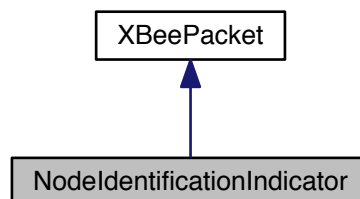
4.6.2.5 `void ModemStatus::setStatus ( uint8_t )` [protected]

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

- `src/QXBee/XBeePacket/ModemStatus.h`

## 4.7 NodeIdentificationIndicator Class Reference

Inheritance diagram for NodeIdentificationIndicator:



## Public Member Functions

- [NodeIdentificationIndicator](#) ()
- virtual uint8\_t [getFrameType](#) () const
- QByteArray [getSourceAddress64](#) ()
- QByteArray [getSourceAddress16](#) ()
- uint8\_t [getReceiveOptions](#) ()
- QByteArray [getRemoteAddress64](#) ()
- QByteArray [getRemoteAddress16](#) ()
- QString [getNlString](#) ()
- QByteArray [getParentAddress16](#) ()
- uint8\_t [getDeviceType](#) ()
- uint8\_t [getSourceEvent](#) ()
- QByteArray [getProfileID](#) ()
- QByteArray [getManufacturerID](#) ()
- QByteArray [getDeviceTypeID](#) ()
- QByteArray [getRSSI](#) ()
- QByteArray [getFrameData](#) ()
- void [setFrameData](#) (QByteArray)
- virtual [~NodeIdentificationIndicator](#) ()

## Protected Member Functions

- void [setSourceAddress64](#) (QByteArray)
- void [setSourceAddress16](#) (QByteArray)
- void [setReceiveOptions](#) (uint8\_t)
- void [setRemoteAddress64](#) (QByteArray)
- void [setRemoteAddress16](#) (QByteArray)
- void [setNlString](#) (QString)
- void [setParentAddress16](#) (QByteArray)
- void [setDeviceType](#) (uint8\_t)
- void [setSourceEvent](#) (uint8\_t)
- void [setProfileID](#) (QByteArray)
- void [setManufacturerID](#) (QByteArray)
- void [setDeviceTypeID](#) (QByteArray)
- void [setRSSI](#) (QByteArray)

## Additional Inherited Members

### 4.7.1 Constructor & Destructor Documentation

4.7.1.1 [NodeIdentificationIndicator::NodeIdentificationIndicator](#) ( )

4.7.1.2 virtual [NodeIdentificationIndicator::~~NodeIdentificationIndicator](#) ( ) [virtual]

### 4.7.2 Member Function Documentation

4.7.2.1 uint8\_t [NodeIdentificationIndicator::getDeviceType](#) ( )

4.7.2.2 QByteArray [NodeIdentificationIndicator::getDeviceTypeID](#) ( )

4.7.2.3 QByteArray [NodeIdentificationIndicator::getFrameData](#) ( ) [virtual]

Implements [XBeePacket](#).

4.7.2.4 `virtual uint8_t NodeIdentificationIndicator::getFrameType ( ) const` `[inline], [virtual]`

Implements [XBeePacket](#).

4.7.2.5 `QByteArray NodeIdentificationIndicator::getManufacturerID ( )`

4.7.2.6 `QString NodeIdentificationIndicator::getNString ( )`

4.7.2.7 `QByteArray NodeIdentificationIndicator::getParentAddress16 ( )`

4.7.2.8 `QByteArray NodeIdentificationIndicator::getProfileID ( )`

4.7.2.9 `uint8_t NodeIdentificationIndicator::getReceiveOptions ( )`

4.7.2.10 `QByteArray NodeIdentificationIndicator::getRemoteAddress16 ( )`

4.7.2.11 `QByteArray NodeIdentificationIndicator::getRemoteAddress64 ( )`

4.7.2.12 `QByteArray NodeIdentificationIndicator::getRSSI ( )`

4.7.2.13 `QByteArray NodeIdentificationIndicator::getSourceAddress16 ( )`

4.7.2.14 `QByteArray NodeIdentificationIndicator::getSourceAddress64 ( )`

4.7.2.15 `uint8_t NodeIdentificationIndicator::getSourceEvent ( )`

4.7.2.16 `void NodeIdentificationIndicator::setDeviceType ( uint8_t )` `[protected]`

4.7.2.17 `void NodeIdentificationIndicator::setDeviceTypeID ( QByteArray )` `[protected]`

4.7.2.18 `void NodeIdentificationIndicator::setFrameData ( QByteArray )` `[virtual]`

Implements [XBeePacket](#).

4.7.2.19 `void NodeIdentificationIndicator::setManufacturerID ( QByteArray )` `[protected]`

4.7.2.20 `void NodeIdentificationIndicator::setNString ( QString )` `[protected]`

4.7.2.21 `void NodeIdentificationIndicator::setParentAddress16 ( QByteArray )` `[protected]`

4.7.2.22 `void NodeIdentificationIndicator::setProfileID ( QByteArray )` `[protected]`

4.7.2.23 `void NodeIdentificationIndicator::setReceiveOptions ( uint8_t )` `[protected]`

4.7.2.24 `void NodeIdentificationIndicator::setRemoteAddress16 ( QByteArray )` `[protected]`

4.7.2.25 `void NodeIdentificationIndicator::setRemoteAddress64 ( QByteArray )` `[protected]`

4.7.2.26 `void NodeIdentificationIndicator::setRSSI ( QByteArray )` `[protected]`

4.7.2.27 `void NodeIdentificationIndicator::setSourceAddress16 ( QByteArray )` `[protected]`

4.7.2.28 `void NodeIdentificationIndicator::setSourceAddress64 ( QByteArray )` `[protected]`

4.7.2.29 `void NodeIdentificationIndicator::setSourceEvent ( uint8_t )` `[protected]`

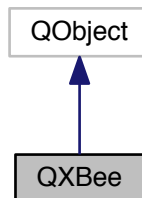
The documentation for this class was generated from the following file:

- `src/QXBee/XBeePacket/NodeIdentificationIndicator.h`

## 4.8 QXBee Class Reference

The [QXBee](#) class provides bi-directional communication with a XBee device thru serial port.

Inheritance diagram for QXBee:



### Signals

- void [dataReceived](#) ([XBeePacket](#) &)  
*This signal is emitted whenever a packet arrives.*

### Public Member Functions

- [QXBee](#) (QSerialPort &)
- void [send](#) ([XBeePacket](#) &)  
*This function sends a packet to the XBee module.*
- void [broadcast](#) (QString)  
*This function broadcasts a string to any accessible XBee device.*
- void [unicast](#) (QByteArray, QString)  
*This function sends a string to a single XBee device specified by it's address.*
- [~QXBee](#) ()

#### 4.8.1 Detailed Description

The [QXBee](#) class provides bi-directional communication with a XBee device thru serial port.

This class can send and receive data using Digi's XBee API protocol mode 1 or 2. There are also included two helper functions, that can easily unicast or broadcast data to XBee devices. This class uses `QObject` signals and slots, and emits a signal whenever a new packet arrive, it also needs a previously setup `QSerialPort` for communication.

Example:

```
QSerialPort serial;
serial.setPortName("/dev/ttyUSB1");
serial.setBaudRate(QSerialPort::Baud9600);
serial.setDataBits(QSerialPort::Data8);
serial.setParity(QSerialPort::NoParity);
serial.setStopBits(QSerialPort::OneStop);
serial.setFlowControl(QSerialPort::NoFlowControl);

QXBee xbee(serial);
xbec.broadcast("Hello World!");
```

## 4.8.2 Constructor & Destructor Documentation

4.8.2.1 `QXBee::QXBee ( QSerialPort & )`

4.8.2.2 `QXBee::~~QXBee ( )`

## 4.8.3 Member Function Documentation

4.8.3.1 `void QXBee::broadcast ( QString )`

This function broadcasts a string to any accessible XBee device.

4.8.3.2 `void QXBee::dataReceived ( XBeePacket & )` [signal]

This signal is emitted whenever a packet arrives.

4.8.3.3 `void QXBee::send ( XBeePacket & )`

This function sends a packet to the XBee module.

4.8.3.4 `void QXBee::unicast ( QByteArray , QString )`

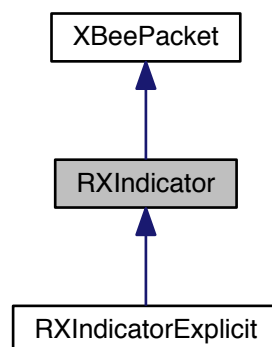
This function sends a string to a single XBee device specified by it's address.

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

- `src/QXBee/QXBee.h`

## 4.9 RXIndicator Class Reference

Inheritance diagram for RXIndicator:



## Public Member Functions

- [RXIndicator](#) ()
- virtual uint8\_t [getFrameType](#) () const
- QByteArray [getSourceAddress64](#) ()
- QByteArray [getSourceAddress16](#) ()
- uint8\_t [getReceiveOptions](#) ()
- QByteArray [getReceivedData](#) ()
- virtual QByteArray [getFrameData](#) ()
- virtual void [setFrameData](#) (QByteArray)
- virtual [~RXIndicator](#) ()

## Protected Member Functions

- void [setSourceAddress64](#) (QByteArray)
- void [setSourceAddress16](#) (QByteArray)
- void [setReceiveOptions](#) (uint8\_t)
- void [setReceivedData](#) (QByteArray)

## Additional Inherited Members

### 4.9.1 Constructor & Destructor Documentation

4.9.1.1 [RXIndicator::RXIndicator](#) ( )

4.9.1.2 virtual [RXIndicator::~~RXIndicator](#) ( ) [virtual]

### 4.9.2 Member Function Documentation

4.9.2.1 virtual QByteArray [RXIndicator::getFrameData](#) ( ) [virtual]

Implements [XBeePacket](#).

Reimplemented in [RXIndicatorExplicit](#).

4.9.2.2 virtual uint8\_t [RXIndicator::getFrameType](#) ( ) const [inline], [virtual]

Implements [XBeePacket](#).

Reimplemented in [RXIndicatorExplicit](#).

4.9.2.3 QByteArray RXIndicator::getReceivedData ( )

4.9.2.4 uint8\_t RXIndicator::getReceiveOptions ( )

4.9.2.5 QByteArray RXIndicator::getSourceAddress16 ( )

4.9.2.6 QByteArray RXIndicator::getSourceAddress64 ( )

4.9.2.7 virtual void RXIndicator::setFrameData ( QByteArray ) [virtual]

Implements [XBeePacket](#).

Reimplemented in [RXIndicatorExplicit](#).

4.9.2.8 void RXIndicator::setReceivedData ( QByteArray ) [protected]

4.9.2.9 void RXIndicator::setReceiveOptions ( uint8\_t ) [protected]

4.9.2.10 void RXIndicator::setSourceAddress16 ( QByteArray ) [protected]

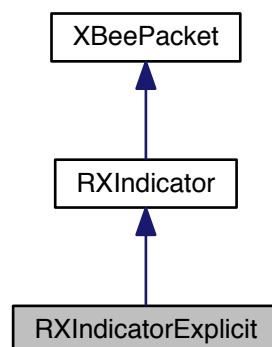
4.9.2.11 void RXIndicator::setSourceAddress64 ( QByteArray ) [protected]

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

- [src/QXBee/XBeePacket/RXIndicator.h](#)

## 4.10 RXIndicatorExplicit Class Reference

Inheritance diagram for RXIndicatorExplicit:



## Public Member Functions

- [RXIndicatorExplicit](#) ()
- virtual uint8\_t [getFrameType](#) () const
- uint8\_t [getSourceEndpoint](#) ()
- uint8\_t [getDestinationEndpoint](#) ()
- QByteArray [getClusterID](#) ()
- QByteArray [getProfileID](#) ()
- QByteArray [getFrameData](#) ()
- void [setFrameData](#) (QByteArray)

## Protected Member Functions

- void [setSourceEndpoint](#) (uint8\_t)
- void [setDestinationEndpoint](#) (uint8\_t)
- void [setClusterID](#) (QByteArray)
- void [setProfileID](#) (QByteArray)

## Additional Inherited Members

### 4.10.1 Constructor & Destructor Documentation

4.10.1.1 [RXIndicatorExplicit::RXIndicatorExplicit](#) ( )

### 4.10.2 Member Function Documentation

4.10.2.1 QByteArray [RXIndicatorExplicit::getClusterID](#) ( )

4.10.2.2 uint8\_t [RXIndicatorExplicit::getDestinationEndpoint](#) ( )

4.10.2.3 QByteArray [RXIndicatorExplicit::getFrameData](#) ( ) [virtual]

Reimplemented from [RXIndicator](#).

4.10.2.4 virtual uint8\_t [RXIndicatorExplicit::getFrameType](#) ( ) const [inline],[virtual]

Reimplemented from [RXIndicator](#).

4.10.2.5 QByteArray [RXIndicatorExplicit::getProfileID](#) ( )

4.10.2.6 uint8\_t [RXIndicatorExplicit::getSourceEndpoint](#) ( )

4.10.2.7 void [RXIndicatorExplicit::setClusterID](#) ( QByteArray ) [protected]

4.10.2.8 void [RXIndicatorExplicit::setDestinationEndpoint](#) ( uint8\_t ) [protected]

4.10.2.9 void [RXIndicatorExplicit::setFrameData](#) ( QByteArray ) [virtual]

Reimplemented from [RXIndicator](#).



4.10.2.10 void RXIndicatorExplicit::setProfileID ( QByteArray ) [protected]

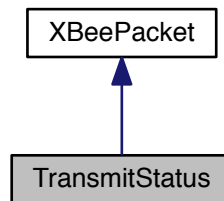
4.10.2.11 void RXIndicatorExplicit::setSourceEndpoint ( uint8\_t ) [protected]

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

- src/QXBee/XBeePacket/RXIndicatorExplicit.h

## 4.11 TransmitStatus Class Reference

Inheritance diagram for TransmitStatus:



### Public Member Functions

- [TransmitStatus](#) ()
- virtual uint8\_t [getFrameType](#) () const
- uint8\_t [getFrameID](#) ()
- QByteArray [getDestinationAddress16](#) ()
- uint8\_t [getTransmitRetryCount](#) ()
- uint8\_t [getDeliveryStatus](#) ()
- uint8\_t [getDiscoveryStatus](#) ()
- QByteArray [getFrameData](#) ()
- void [setFrameData](#) (QByteArray)
- virtual [~TransmitStatus](#) ()

### Protected Member Functions

- void [setFrameID](#) (uint8\_t)
- void [setDestinationAddress16](#) (QByteArray)
- void [setTransmitRetryCount](#) (uint8\_t)
- void [setDeliveryStatus](#) (uint8\_t)
- void [setDiscoveryStatus](#) (uint8\_t)

## Additional Inherited Members

### 4.11.1 Constructor & Destructor Documentation

4.11.1.1 `TransmitStatus::TransmitStatus ( )`

4.11.1.2 `virtual TransmitStatus::~~TransmitStatus ( )` `[virtual]`

### 4.11.2 Member Function Documentation

4.11.2.1 `uint8_t TransmitStatus::getDeliveryStatus ( )`

4.11.2.2 `QByteArray TransmitStatus::getDestinationAddress16 ( )`

4.11.2.3 `uint8_t TransmitStatus::getDiscoveryStatus ( )`

4.11.2.4 `QByteArray TransmitStatus::getFrameData ( )` `[virtual]`

Implements [XBeePacket](#).

4.11.2.5 `uint8_t TransmitStatus::getFrameID ( )`

4.11.2.6 `virtual uint8_t TransmitStatus::getFrameType ( ) const` `[inline], [virtual]`

Implements [XBeePacket](#).

4.11.2.7 `uint8_t TransmitStatus::getTransmitRetryCount ( )`

4.11.2.8 `void TransmitStatus::setDeliveryStatus ( uint8_t )` `[protected]`

4.11.2.9 `void TransmitStatus::setDestinationAddress16 ( QByteArray )` `[protected]`

4.11.2.10 `void TransmitStatus::setDiscoveryStatus ( uint8_t )` `[protected]`

4.11.2.11 `void TransmitStatus::setFrameData ( QByteArray )` `[virtual]`

Implements [XBeePacket](#).

4.11.2.12 `void TransmitStatus::setFrameID ( uint8_t )` `[protected]`

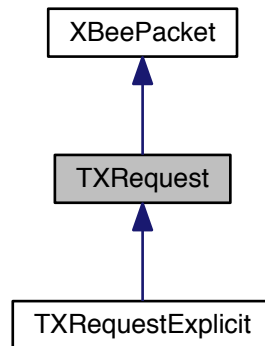
4.11.2.13 `void TransmitStatus::setTransmitRetryCount ( uint8_t )` `[protected]`

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

- `src/QXBee/XBeePacket/TransmitStatus.h`

## 4.12 TXRequest Class Reference

Inheritance diagram for TXRequest:



### Public Member Functions

- [TXRequest](#) ()
- virtual uint8\_t [getFrameType](#) () const
- uint8\_t [getFrameID](#) ()
- QByteArray [getDestinationAddress64](#) ()
- QByteArray [getDestinationAddress16](#) ()
- uint8\_t [getBroadcastRadius](#) ()
- uint8\_t [getTransmitOptions](#) ()
- QByteArray [getTransmittingData](#) ()
- virtual QByteArray [getFrameData](#) ()
- void [setFrameID](#) (uint8\_t)
- void [setDestinationAddress64](#) (QByteArray)
- void [setDestinationAddress16](#) (QByteArray)
- void [setBroadcastRadius](#) (uint8\_t)
- void [setTransmitOptions](#) (uint8\_t)
- void [setTransmittingData](#) (QByteArray)
- virtual void [setFrameData](#) (QByteArray)
- virtual [~TXRequest](#) ()

### Additional Inherited Members

#### 4.12.1 Constructor & Destructor Documentation

4.12.1.1 `TXRequest::TXRequest ( )`

4.12.1.2 `virtual TXRequest::~~TXRequest ( )` `[virtual]`

## 4.12.2 Member Function Documentation

4.12.2.1 `uint8_t TXRequest::getBroadcastRadius ( )`

4.12.2.2 `QByteArray TXRequest::getDestinationAddress16 ( )`

4.12.2.3 `QByteArray TXRequest::getDestinationAddress64 ( )`

4.12.2.4 `virtual QByteArray TXRequest::getFrameData ( )` [virtual]

Implements [XBeePacket](#).

Reimplemented in [TXRequestExplicit](#).

4.12.2.5 `uint8_t TXRequest::getFrameID ( )`

4.12.2.6 `virtual uint8_t TXRequest::getFrameType ( ) const` [inline],[virtual]

Implements [XBeePacket](#).

Reimplemented in [TXRequestExplicit](#).

4.12.2.7 `QByteArray TXRequest::getTransmittingData ( )`

4.12.2.8 `uint8_t TXRequest::getTransmitOptions ( )`

4.12.2.9 `void TXRequest::setBroadcastRadius ( uint8_t )`

4.12.2.10 `void TXRequest::setDestinationAddress16 ( QByteArray )`

4.12.2.11 `void TXRequest::setDestinationAddress64 ( QByteArray )`

4.12.2.12 `virtual void TXRequest::setFrameData ( QByteArray )` [virtual]

Implements [XBeePacket](#).

Reimplemented in [TXRequestExplicit](#).

4.12.2.13 `void TXRequest::setFrameID ( uint8_t )`

4.12.2.14 `void TXRequest::setTransmittingData ( QByteArray )`

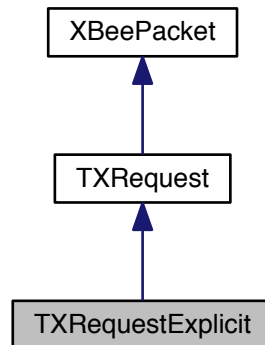
4.12.2.15 `void TXRequest::setTransmitOptions ( uint8_t )`

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

- `src/QXBee/XBeePacket/TXRequest.h`

## 4.13 TXRequestExplicit Class Reference

Inheritance diagram for TXRequestExplicit:



### Public Member Functions

- [TXRequestExplicit](#) ()
- virtual uint8\_t [getFrameType](#) () const
- uint8\_t [getSourceEndpoint](#) ()
- uint8\_t [getDestinationEndpoint](#) ()
- QByteArray [getClusterID](#) ()
- QByteArray [getProfileID](#) ()
- QByteArray [getFrameData](#) ()
- void [setSourceEndpoint](#) (uint8\_t)
- void [setDestinationEndpoint](#) (uint8\_t)
- void [setClusterID](#) (QByteArray)
- void [setProfileID](#) (QByteArray)
- void [setFrameData](#) (QByteArray)

### Additional Inherited Members

#### 4.13.1 Constructor & Destructor Documentation

4.13.1.1 `TXRequestExplicit::TXRequestExplicit ( )`

#### 4.13.2 Member Function Documentation

4.13.2.1 `QByteArray TXRequestExplicit::getClusterID ( )`

4.13.2.2 `uint8_t TXRequestExplicit::getDestinationEndpoint ( )`

4.13.2.3 `QByteArray TXRequestExplicit::getFrameData ( )` [virtual]

Reimplemented from [TXRequest](#).

4.13.2.4 `virtual uint8_t TXRequestExplicit::getFrameType ( ) const` `[inline],[virtual]`

Reimplemented from [TXRequest](#).

4.13.2.5 `QByteArray TXRequestExplicit::getProfileID ( )`

4.13.2.6 `uint8_t TXRequestExplicit::getSourceEndpoint ( )`

4.13.2.7 `void TXRequestExplicit::setClusterID ( QByteArray )`

4.13.2.8 `void TXRequestExplicit::setDestinationEndpoint ( uint8_t )`

4.13.2.9 `void TXRequestExplicit::setFrameData ( QByteArray )` `[virtual]`

Reimplemented from [TXRequest](#).

4.13.2.10 `void TXRequestExplicit::setProfileID ( QByteArray )`

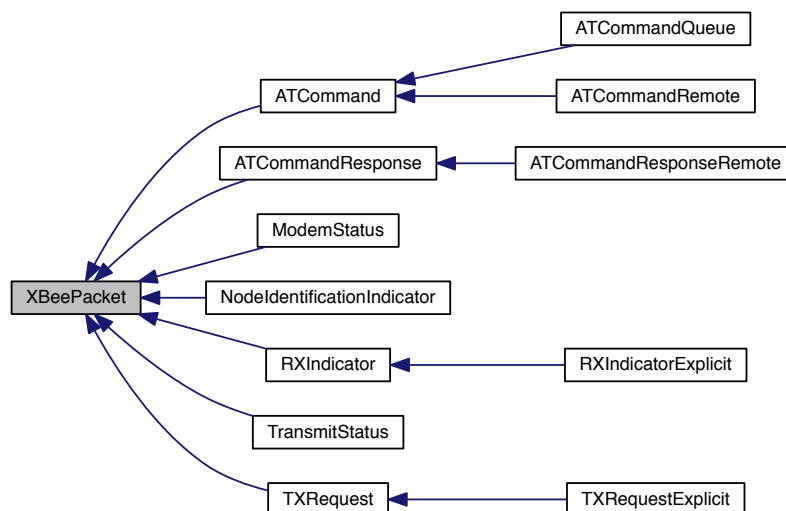
4.13.2.11 `void TXRequestExplicit::setSourceEndpoint ( uint8_t )`

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

- [src/QXBee/XBeePacket/TXRequestExplicit.h](#)

## 4.14 XBeePacket Class Reference

Inheritance diagram for XBeePacket:



## Public Member Functions

- virtual uint8\_t [getFrameType](#) () const =0
- virtual QByteArray [getFrameData](#) ()=0
- virtual void [setFrameData](#) (QByteArray)=0
- virtual [~XBeePacket](#) ()
- virtual [operator int](#) ()

## Static Public Attributes

- static const uint8\_t [pATCommand](#) = 0x08
- static const uint8\_t [pATCommandQueue](#) = 0x09
- static const uint8\_t [pTXRequest](#) = 0x10
- static const uint8\_t [pTXRequestExplicit](#) = 0x11
- static const uint8\_t [pATCommandRemote](#) = 0x17
- static const uint8\_t [pATCommandResponse](#) = 0x88
- static const uint8\_t [pModemStatus](#) = 0x8A
- static const uint8\_t [pTransmitStatus](#) = 0x8B
- static const uint8\_t [pRXIndicator](#) = 0x90
- static const uint8\_t [pRXIndicatorExplicit](#) = 0x91
- static const uint8\_t [pNodeIdentificationIndicator](#) = 0x95
- static const uint8\_t [pATCommandResponseRemote](#) = 0x97

### 4.14.1 Constructor & Destructor Documentation

4.14.1.1 virtual XBeePacket::~XBeePacket ( ) [inline],[virtual]

### 4.14.2 Member Function Documentation

4.14.2.1 virtual QByteArray XBeePacket::getFrameData ( ) [pure virtual]

Implemented in [NodeIdentificationIndicator](#), [TransmitStatus](#), [ATCommandResponse](#), [RXIndicator](#), [RXIndicator↔Explicit](#), [TXRequest](#), [ATCommandResponseRemote](#), [TXRequestExplicit](#), [ATCommand](#), [ATCommandRemote](#), and [ModemStatus](#).

4.14.2.2 virtual uint8\_t XBeePacket::getFrameType ( ) const [pure virtual]

Implemented in [NodeIdentificationIndicator](#), [TransmitStatus](#), [ATCommandResponse](#), [RXIndicator](#), [RXIndicator↔Explicit](#), [ATCommandResponseRemote](#), [TXRequest](#), [ATCommand](#), [ModemStatus](#), [TXRequestExplicit](#), [AT↔CommandRemote](#), and [ATCommandQueue](#).

4.14.2.3 virtual XBeePacket::operator int ( ) [inline],[virtual]

4.14.2.4 virtual void XBeePacket::setFrameData ( QByteArray ) [pure virtual]

Implemented in [NodeIdentificationIndicator](#), [TXRequest](#), [TransmitStatus](#), [ATCommandResponse](#), [RXIndicator](#), [R↔XIndicatorExplicit](#), [TXRequestExplicit](#), [ATCommand](#), [ATCommandRemote](#), [ATCommandResponseRemote](#), and [ModemStatus](#).

### 4.14.3 Member Data Documentation

- 4.14.3.1 `const uint8_t XBeePacket::pATCommand = 0x08` [static]
- 4.14.3.2 `const uint8_t XBeePacket::pATCommandQueue = 0x09` [static]
- 4.14.3.3 `const uint8_t XBeePacket::pATCommandRemote = 0x17` [static]
- 4.14.3.4 `const uint8_t XBeePacket::pATCommandResponse = 0x88` [static]
- 4.14.3.5 `const uint8_t XBeePacket::pATCommandResponseRemote = 0x97` [static]
- 4.14.3.6 `const uint8_t XBeePacket::pModemStatus = 0x8A` [static]
- 4.14.3.7 `const uint8_t XBeePacket::pNodeIdentificationIndicator = 0x95` [static]
- 4.14.3.8 `const uint8_t XBeePacket::pRXIndicator = 0x90` [static]
- 4.14.3.9 `const uint8_t XBeePacket::pRXIndicatorExplicit = 0x91` [static]
- 4.14.3.10 `const uint8_t XBeePacket::pTransmitStatus = 0x8B` [static]
- 4.14.3.11 `const uint8_t XBeePacket::pTXRequest = 0x10` [static]
- 4.14.3.12 `const uint8_t XBeePacket::pTXRequestExplicit = 0x11` [static]

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

- `src/QXBee/XBeePacket/XBeePacket.h`



## Chapter 5

# File Documentation

### 5.1 src/QXBee/QXBee.h File Reference

#### Classes

- class [QXBee](#)

*The [QXBee](#) class provides bi-directional communication with a XBee device thru serial port.*

### 5.2 src/QXBee/XBeePacket/ATCommand.h File Reference

#### Classes

- class [ATCommand](#)

### 5.3 src/QXBee/XBeePacket/ATCommandQueue.h File Reference

#### Classes

- class [ATCommandQueue](#)

### 5.4 src/QXBee/XBeePacket/ATCommandRemote.h File Reference

#### Classes

- class [ATCommandRemote](#)

### 5.5 src/QXBee/XBeePacket/ATCommandResponse.h File Reference

#### Classes

- class [ATCommandResponse](#)

## 5.6 `src/QXBee/XBeePacket/ATCommandResponseRemote.h` File Reference

### Classes

- class [ATCommandResponseRemote](#)

## 5.7 `src/QXBee/XBeePacket/ModemStatus.h` File Reference

### Classes

- class [ModemStatus](#)

## 5.8 `src/QXBee/XBeePacket/NodeIdentificationIndicator.h` File Reference

### Classes

- class [NodeIdentificationIndicator](#)

## 5.9 `src/QXBee/XBeePacket/RXIndicator.h` File Reference

### Classes

- class [RXIndicator](#)

## 5.10 `src/QXBee/XBeePacket/RXIndicatorExplicit.h` File Reference

### Classes

- class [RXIndicatorExplicit](#)

## 5.11 `src/QXBee/XBeePacket/TransmitStatus.h` File Reference

### Classes

- class [TransmitStatus](#)

## 5.12 `src/QXBee/XBeePacket/TXRequest.h` File Reference

### Classes

- class [TXRequest](#)

## 5.13 src/QXBee/XBeePacket/TXRequestExplicit.h File Reference

### Classes

- class [TXRequestExplicit](#)

## 5.14 src/QXBee/XBeePacket/XBeePacket.h File Reference

### Classes

- class [XBeePacket](#)



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