

# XBee UART Python functions

Chris Vincent Densing

October 28, 2019

Includes functions for formation of packets that conform to the XBee API format. Included in file *packet\_encode.py*.

Assemble a byte stream for querying AT parameter values. Use on local XBee device connected to serial.

1. *bytestr* - (type: Bytes) Formatted XBee API frame (0x08: AT Command frame).

1. *param* - (type: String) Two-character AT parameter.

Assemble a byte stream for setting AT parameter values. Use on local XBee device connected to serial.

1. *bytestr* - (type: Bytes) Formatted XBee API frame (0x08: AT Command frame).

1. *param* - (type: String) Two-character AT parameter.

2. *value* - (type: Bytes) New AT parameter value.

Assemble a byte stream for a transmit request payload. Use on local XBee device connected to serial. Returned stream still needs to have headers and checksum appended (use in conjunction with *gen\_headtail()*). Refer to XBee documentation for details on arguments.

1. *bytestr* - (type: Bytes) Semi-formatted XBee API frame (0x10: Transmit request frame).
1. *fid* - (type: String) 1-byte Frame ID in hexadecimal.
2. *dest* - (type: String) 8-byte Destination address in hexadecimal.
3. *brad* - (type: String) 1-byte Broadcast radius in hexadecimal.
4. *opts* - (type: String) 1-byte Transmit options in hexadecimal.
5. *data* - (type: String) Variable length payload in hexadecimal.