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| **Sender** | **Receiver** | **Messages** | **Format** |
| Android App | Tower Pi | Upload image Select image Database operation User input | UDP message stream containing an image file UDP message containing image ID  UDP message containing an SQL command UDP message containing a string |
| Tower Pi | Android App | Acknowledgement User input request  Drawing ID  Database info | UDP message with Ack op-code (see below) UDP message containing a string  UDP message containing the ID for a calibrated drawing UDP message containing native data format (int, string, etc.) |
| Android App | Vehicle Pi | Draw image | UDP message containing a drawing ID |
| Vehicle Pi | Android App | Acknowledgement | UDP message with Ack op-code (see below) |
| Vehicle Pi | Tower Pi | Start tracking  Check position Get nextSegment Standby | UDP message containing a drawing ID UDP message with hex op-code (see below) “ “ “ “ |
| Tower Pi | Vehicle Pi | Acknowledgement Position NextSegment | UDP message with Ack op-code (see below) UDP message containing 3 ints (coordinates x,y & orientation) UDP message containing a int array (containing what angle to move to every step) |
| Vehicle Pi | Vehicle Arduino | Movement instructions | 5-bit UDP message:  bit 0-2: Movement type (pg. 13-14)  bit 3: Chalk up/down  bit 4: Standby/active |
| Vehicle Arduino | Vehicle Pi | Done Moving | 1-bit UDP message |