

### Standard Committee Homework

#### 1 Handshake Protocol

JSON Protocol is considered for communication between opponents, and the proposed states can be seen below;

- Send\_Pairing\_Message{"1":"ID","2":"Pair"}
- ACK{"1":"ID","2":"ACK"}
- $\bullet \ \operatorname{Send\_Stop}(W)\{"1":"ID","2":"STOP"\}$
- Send\_Ans(L){"1":"ID","2":"OK"}

The proposed state machine for handshake protocol can be seen at **Appendix A**.

#### 2 Path Structure

The path is proposed to have following properties:

- The color should be mat green or red.
- The elevation of the path should be 20mm

Both colors are tested using edge detection algorithm and best results obtained in specified colors.

# Appendices



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## A Proposed Handshake Protocol



