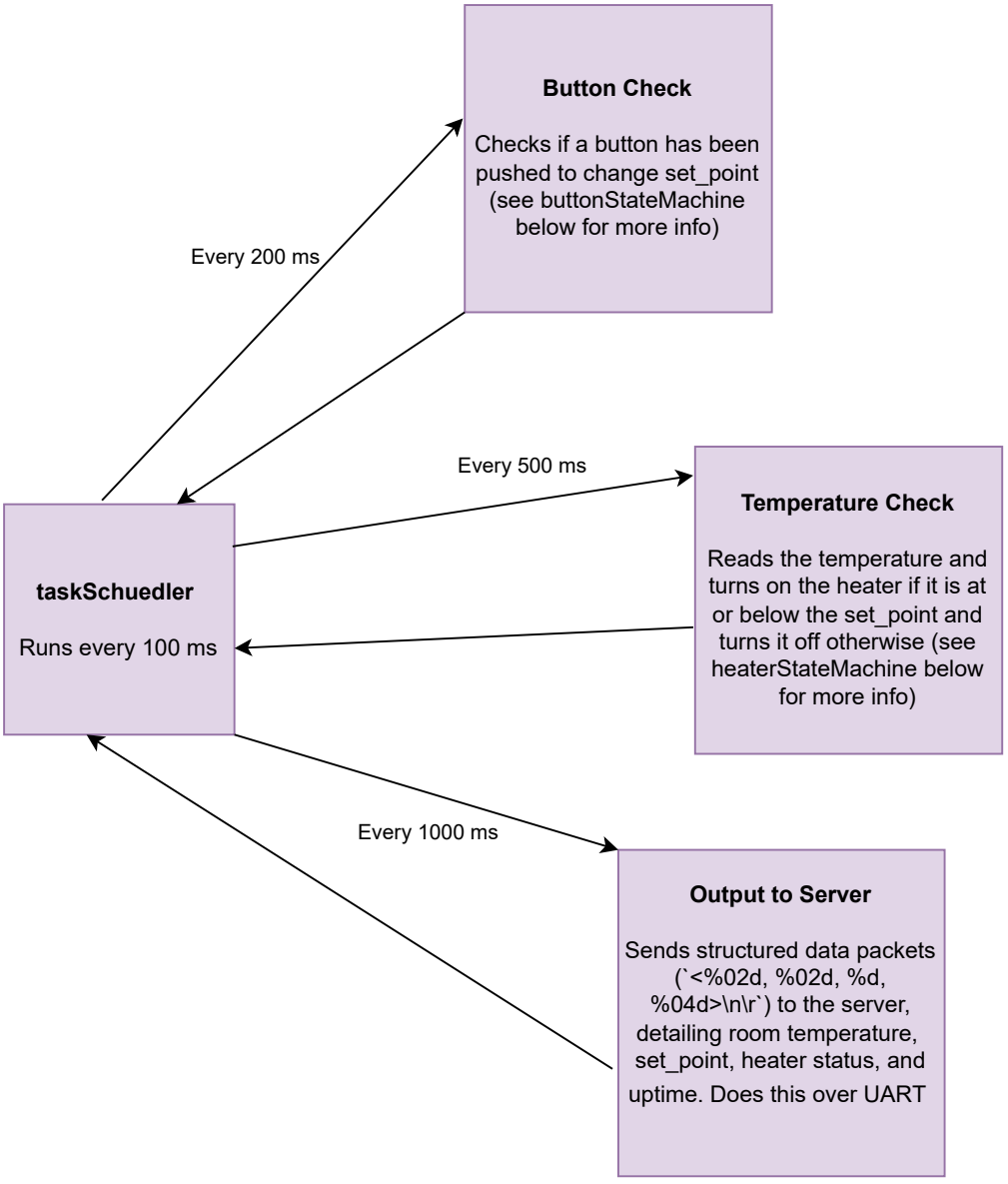
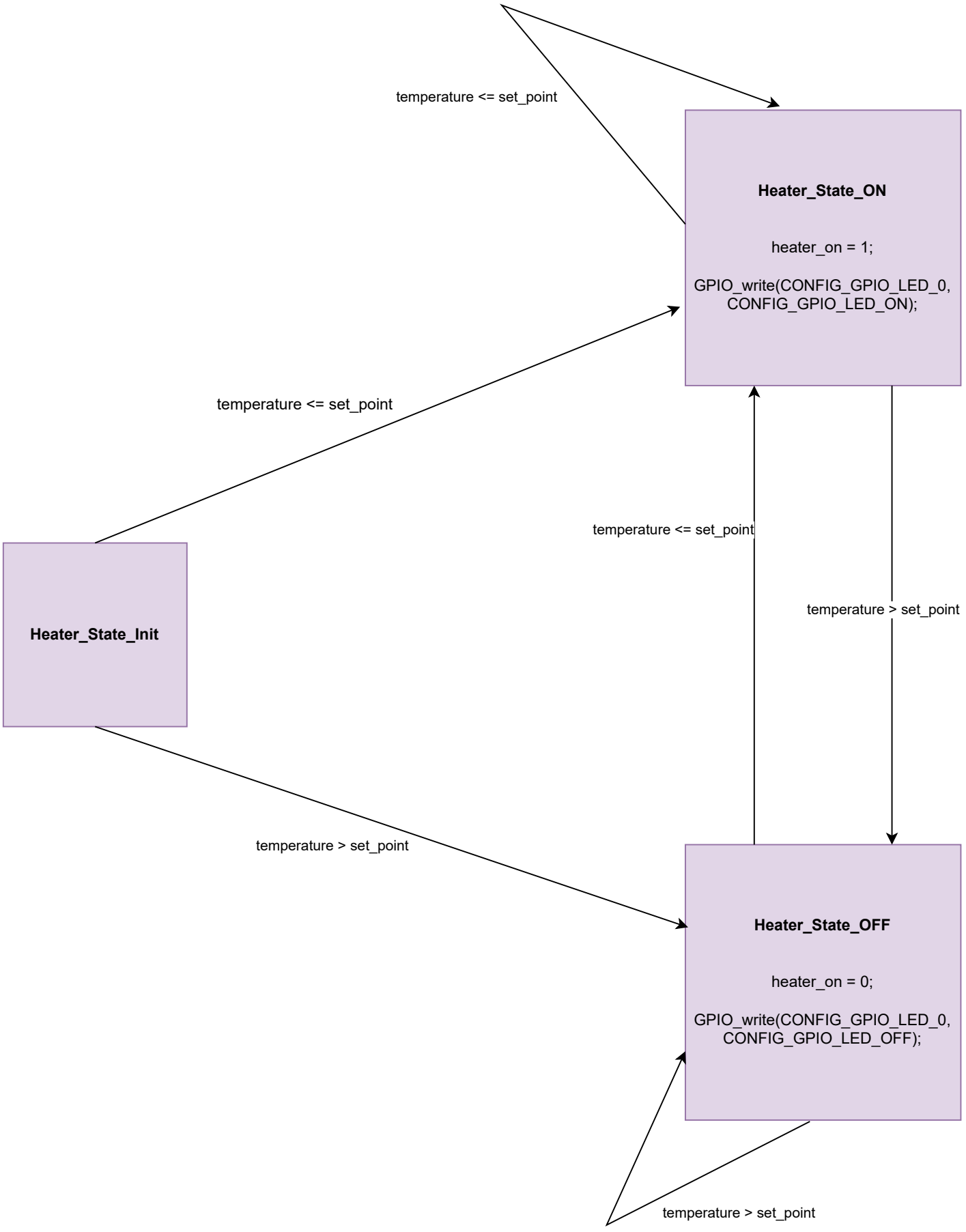
Task Scheduler



Button State Machine

Heater State Machine



Output to Server

Always Outputs over Uart Every 1000 ms

```
DISPLAY( snprintf(output, 64, "<%02d, %02d, %d, %04d>\n\r", temperature, set_point, heater_on, seconds_since_restart));
seconds_since_restart += 1;

// adding plus 1 after because on boot a message is initially sent
// It doesn't wait a second because all tasks initially fire
```