

network.rs — UDP & Dummy Simulator

This file is work in progress

Exposes commands related to the UDP connection and the development simulator.

Commands

`send_ping_cmd(packet_type)` Intended to send a ping packet to the rover over UDP. Currently logs to console — full implementation pending.

`start_dummy_streams()` Starts the full multi-stream simulator. Sends fake protobuf packets to `127.0.0.1:9000` mimicking live rover data. Useful for UI development without hardware. Simulator config:

- Jitter: 30ms
- Simulated packet loss: 2%

`start_detection_sim()` Starts a single stream for the detection object stream dummy data.

`stop_dummy_streams()` Signals the running simulator to stop by setting a shared cancellation flag.

The `DummyStreamHandle` struct (managed Tauri state) holds the cancellation handle so any command can stop the simulator.

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