Tactical MANET

Team Members

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1. Problem Statement

A mobile ad-hoc network communication system for military, for operations in areas with no internet infrastructure. Deployed units can stream audio, video and sensors readings to command centres. Command centres can stream audio and message codes to some/all unit(s).

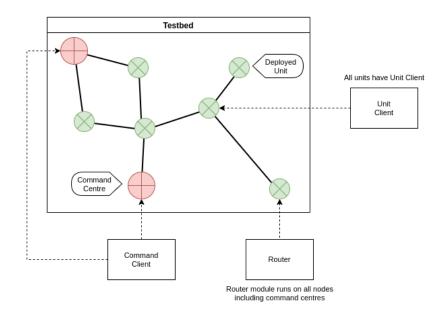
2. Motivation

We are interested in decentralized/distributed algorithms and designing/building complex systems.

3. System Architecture

Figure 1 shows the modules diagram.

4. List of Deliverables



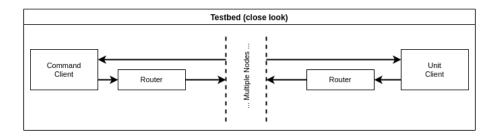


Figure 1: Modules Diagram

Modul Name	e Function	Input	Expected Output	% of used Libraries
Unit Client	Stream and receive streams to/from command centres	Device audio, video, sensors and message codes. Streams and messages from command centre	Send streams and show play audio/messa	TODO
Cmd. Cen- tre Client	Stream and receive streams to/from deployed units. Shows a map of all units with their statistics	Audio and message codes. Streams and messages from deplyed units	Send streams and show play audio/messa	TODO
Router	Determine how a certain ip-packet should be forwarded. Implements some MANET ad-hoc protocol	IP packet (with final destination) to forward	Path from this node to final destination	TODO
Testbe	dBuild, configure and monitor the simulation/emulation of the MANEt. Define the topology and mobility model	User commands and arguments or configuration file	Commands to emulation, simulation or actual-HW	TODO