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

TODO

4. List of Deliverables

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Module		Expected	used
Name Function	Input	Output	Libraries
Unit Stream and receive	Device audio, video,	Send	TODO
Client streams to/from	sensors and message	streams	
command centres	codes. Streams and	and show	
	messages from	play	
	command centre	audio/messages	
Cmd. Stream and receive	Audio and message	Send	TODO
Cen- streams to/from deployed	codes. Streams and	streams	
tre units. Shows a map of all	messages from	and show	
Client units with their statistics	deplyed units	play	
		audio/messages	
Router Determine how a certain	IP packet to forward	IP	TODO
ip-packet should be		address of	
forwarded. Implements		node to	
some \mathtt{MANET} ad-hoc		forward to	
protocol			
TestbedBuild, configure and	User commands and	Commands	TODO
monitor the	arguments or	to	
simulation/emulation of	configuration file	emulation/simulation/act	
the MANEt. Define the		$_{ m HW}$	
topology and mobility			
model			