**ndnSIM Mobile Simulation Package**

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## Motivation

## Implement new simulation scenarios in mobile environments for ndnSIM.

The project is open to suggestions on what exactly simulation scenarios to implement and how potentially NFD has to be modified to support those scenarios. As a starting point for discussion and/or implementation, the vehicular environment described in the paper "Rapid Traffic Information Dissemination Using Named Data" can be used:

<https://named-data.net/wp-content/uploads/nom.pdf>

## Contribution to NDN

ndnSIM is one of the most widely-used NDN software platforms and enriching the ported applications and implemented collection of simulation scenarios with a mobile environment for researchers to experiment with and play around may be very useful. Moreover, to the best of my knowledge, there is no publicly available implementation of such an environment compatible with the latest versions of ndnSIM.

## Tasks

1) Design the simulation environment and scenario(s)

2) Design the actual implementation and decide if changes have to be made in ndnSIM or NFD (the goal is to make minimal or no modifications, if possible)

3) Implement the scenario(s) and any changes required

## Required Knowledge for Participants

1) C++

2) ndnSIM

3) Link-layer capabilities of NS-3 (NetDevice, models, etc.)

4) Potentially NFD

## Expected Outcome

Either an ndnSIM port that will include the implemented environment or an ndnSIM scenario template, if no major changes in the ndnSIM core/NFD are required.