## **Dynamic Mobility**

The aim of the following simulations was to set the trajectory of a mobile node dynamically using data provided by another node. The data is of the form [speed (mps),heading (degrees)]. Here Node B follows a lawnmower pattern and whenever another comes within its range of contact , it receives the data from Node B and starts following the specified trajectory. Initially Node A is static, but the mobility of node A is set to true . That is, it is a mobile node but not moving initially.

## **Code Explanation:**

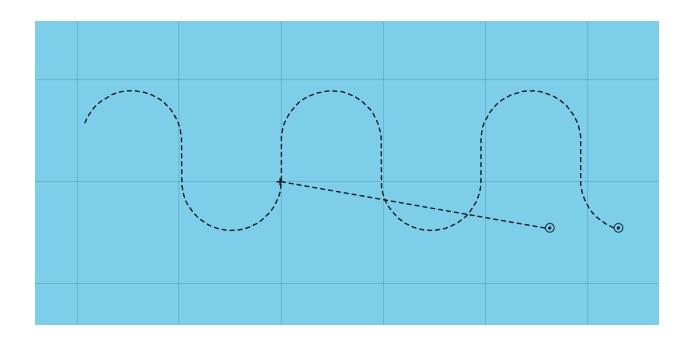
In the dynamic-mobility-sim script we first initialize and describe the parameters of node A, B

In the dynamic-mobility-A script we try to ping node B if it is in range:

Then in dynamic-mobility-B script we check if we received the message from A, and then send the data in the form [speed,heading] (here speed,heading was taken to be [20,100])

Then on Node A if we successfully receive the data array, we set the speed and heading to the specified values

The Simulation can also be visualized on the UNET sim Map . Here is a snapshot from the simulation.



(A demonstration video link will be added soon)