

Topic: Mobility Management and Handoff

List of Team Members:

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Short Description:

Our project will focus on simulating efficient handoff of devices in the Taipei Metro to enhance mobility management.

In the context of the Taipei Metro, where passengers frequently move between stations and trains, **efficient handoff mechanisms** become crucial to maintain connectivity and deliver uninterrupted services.

Through simulation and coding, our project aims to develop a robust handoff system tailored to the Taipei Metro environment. We will use various algorithms and strategies to optimize the handoff process. In the simulation, we **randomly simulate base stations** and **measure the handoff process**, taking in factors such as signal power, interference, user mobility, and noise.

We seek to identify the most effective strategies for seamless device handoff within the Taipei Metro.