

Milestone Report

Group: Implementation of a 5G Testbed, R&D 2024

Members:

- Edward Keith
- Chris Escandor
- Samuel Cathro
- Katarina Milicevic

Milestone Name	Date	Description
Kick-off Meeting	01/03/2024	Team introduction, establishing project scope, agreeing on mutual availability
Kick-off Mentor Meeting	01/03/2024	Gained additional information about project from our mentor, Bobby Yang
Handed in project proposal	05/04/2024	Finalised our project proposal which detailed schedule, cost estimate, team roles, skills analysis, rationale, objective, and scope
Handed in mid-year review document	27/05/2024	Turned in report detailing our progress after one semester of work, showing all milestones and obstacles, both technical and in terms of collaboration between teammates, mentor, and client
Procured hardware: two laptops used exclusively for the purposes of this project	31/07/2024	Following some technical difficulties with dual-booting and virtualizing Ubuntu on our personal laptops, we allocated the use of two refurbished laptops to act as user equipment and base station in our network
Proven network connectivity between simulated LTE network	01/09/2024	Successfully connected the two natively-booted Ubuntu laptops, one running srsUE the other running srsENB and srsEPC, to each other and transmitted signal in the form of a continuous ping, and the ability to send and receive a text file.
Finalised Docker container containing all configuration files and setup for native Ubuntu installation of full srsRAN suite of software	21/10/2024	Included as a plug-and-play solution for the ease of configuration of the srsRAN 4G software which emulates an LTE network on two endpoints
Handed in finalised project portfolio	25/10/2024	Turned in all project deliverables, including the final GitHub repository with all setup and troubleshooting information and research & development project deliverables