Scope Statement (Version 1.0)

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| **Project Title: Network Performance Evaluation on Linux Based Operating Systems**  **Date: 25/03/2025** **Prepared by:** Win Phyo |
| **Project Justification:**  The importance of this project lies in helping compare the network performance of IPv4 and IPv6 on three of the latest commonly used Linux Operating Systems. Both IPv4 and IPv6 have their own benefits and drawbacks in which this project will test their performance on routers. This is done to have a better understanding and comparison of how each of the chosen OS handle network traffic, which ultimately helps businesses to make adequate decision on optimizing their network infrastructure. |
| **Product Characteristics and Requirements:**  Functional requirements for the project include:  Non-functional requirements for the project include: |
| **Project Success Criteria:**   * Proper configuration and setup (Routers, and Network tools [iPerf and D-ITG]) * Tests must be run 10 times each with all tests at 95% Confidence * Tests cover all 12 given packet sizes. |
| **Summary of Project Deliverables**  **Project management-related deliverables:**   * Kick Off meeting agendas and minutes * All meeting agendas and minutes * Team contract * Stakeholder register * Stakeholder Management Strategy * Project Proposal   **Product-related deliverables:**   1. Results of the testing for each OS in Excel File. 2. Log file for the testing |