Functional

R1)The tool shall generate network traffic streams in the form of a pcap file containing up to 10,000 packets with the following customisable attributes: Protocol stack implemented by packets, Data payload of packets (size and content), Size of stream (in packets, bytes or seconds), Packet timing (as packet rate, inter-packet gap or byte rate)

- R2)The tool shall read, save and summarise pcap file contents
- R6) There shall be a command-line interface which can call the core pcap generation functionality

<u>Performance</u>

R5)Both traffic generation and analysis should execute in a minute or less for up to 10,000 packets.

Usability

- R3)The generated pcaps shall be compatible with the SNE traffic replay feature
- R4)The analysis component shall be compatible with pcaps generated by the SNE traffic capture
- R7) The CLI interface should be intuitively usable for other company engineers (easier than calling the python API function)