**Abstract**

The Satellite Network (SN) is a data communications system comprised of a constellation of tracking and Data Relay Satellites (DRS) and several ground terminals. My mentor was asked to develop and implement new software for the satellite network. Throughout this project, the satellite network was focused on being a communication system between the satellite, the DRS, and the ground terminals. The software was written using Python and implemented using the AWS platform. The software was designed to provide a user-friendly interface for the satellite network operators.

**Purpose**

The satellite network is crucial for communication between the satellite and the ground terminals. It is used to transmit data from the satellite to the ground and vice versa. The goal of this project was to develop a software application that would allow the operators to easily monitor and control the satellite network. The software was designed to work with both the satellite and the ground terminals, and it could be used in various scenarios such as satellite tracking, satellite command, and data transmission.

**Background Information**

The Satellite Network (SN) is a data communication system used for communication purposes. It comprises of a constellation of Tracking and Data Relay Satellites (DRS) and several ground stations. The software was developed using Python and deployed on the AWS platform. The software was designed to provide a user-friendly interface for the satellite network operators. The software was developed to work with both the satellite and the ground terminals.

**Methods**

All the necessary information and documentation are collected such as: System Acceptance Test data, Modern Specification data, and it is set up on AWS. For the PPS, the program was written in Python and was used for the satellite network operators. The program was designed to be user-friendly and it could be used in various scenarios such as satellite tracking, satellite command, and data transmission.

**Conclusion**

Through the use of software and various applications, I successfully mapped all models for the USS-CR Modem Functional Configuration. The software was designed to work with both the satellite and the ground terminals, and it could be used in various scenarios such as satellite tracking, satellite command, and data transmission. The software was developed and deployed on the AWS platform, and it is set up to provide a user-friendly interface for the satellite network operators.