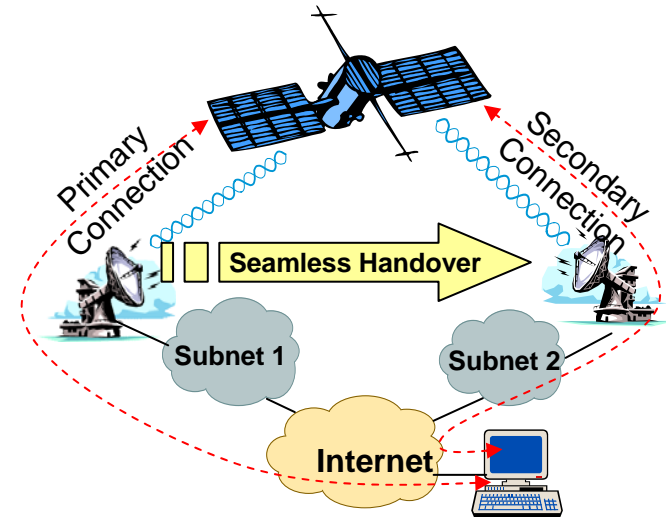


# Implementation Issues and Validation of SIGMA in Space Network Environment

PI: Mohammed Atiquzzaman, University of Oklahoma

## Objective

Researchers at University of Oklahoma and NASA have been developing SIGMA for seamless handover of spacecrafts. The objective of this project is to investigate implementation issues of SIGMA for space missions, and evaluate SIGMA in space network environment. Implementation issues include survivability, scalability, power awareness, and security.



## Approach

The implementation issues will be carried out using a combination of analytical, simulation and experimental results. Testing of SIGMA in space environment will be carried out experimentally using the experimental testbeds for space networks available at University of Oklahoma and NASA Glenn Research Center.

## Co-I's/Partners

• Zahed Siddique / UOK

## Key Milestones

- Finalize implementation issues and setup experiment for ground testing of SIGMA 11/07
- Preliminary results of security, scalability and power awareness, and testbeds 11/08
- Complete demonstration of SIGMA in space environment 11/09

TRL<sub>in</sub> = 5