

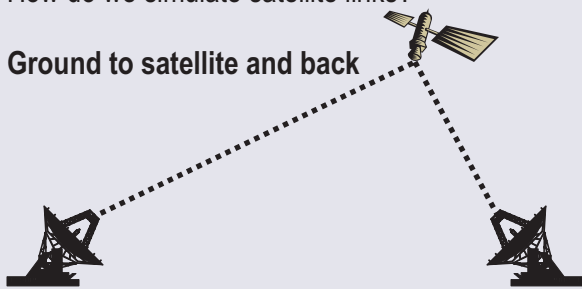
# Satellite Communications

## Emulating delay and jitter on satellite links up to 10 Gps

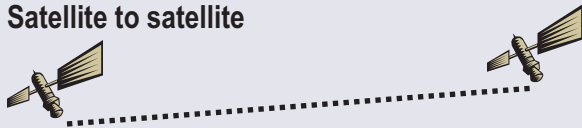
### PROBLEM

How do we simulate satellite links?

Ground to satellite and back

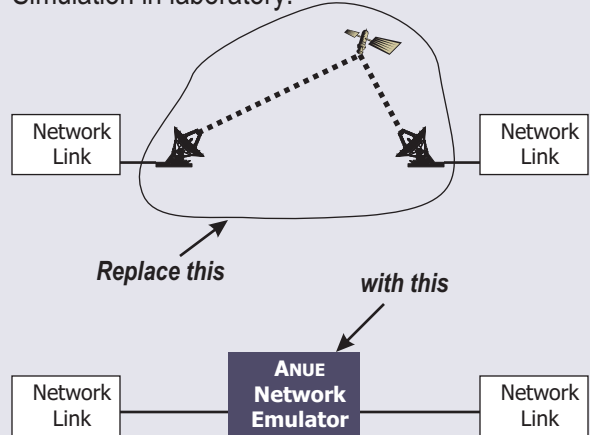


Satellite to satellite



### SOLUTION

Simulation in laboratory:



Satellite communications engineers use ANUE Network Emulators to simulate and test communication links in the lab before launching a satellite into orbit.

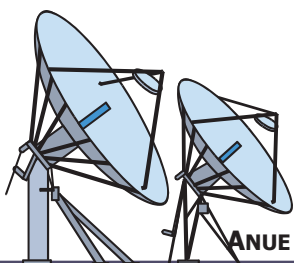
ANUE Network Emulators simulate long-distance delays, clock jitters, Doppler effects, bit errors, and other impairments that must be tested for before a satellite is deployed in space.

## Test Solutions

- Delay – Test applications for the impact of long-distance communication delays
- Jitter/Doppler Effect – Test telecommunication links for error margins of eye-pattern shift
- Attenuation – Simulate the effects of signal attenuation with injection of bit errors

## Features

- Delay emulation up to 6 seconds in 1-bit increments
- Data rates from 10Mbps to 10Gbps
- Multiple protocol support
  - › SDH/SONET up to STM48/OC192 @ 10Gbps
  - › GigE up to 10Gbps
  - › Fibre Channel up to 10Gbps



*ANUE welcomes custom application requirements.  
Contact us for consultation and support.*

ANUE SYSTEMS, INC. • 9111 JOLLYVILLE ROAD • SUITE 100 • AUSTIN, TX 78759 • U.S.A.

WWW.ANUESYSTEMS.COM • INFO@ANUESYSTEMS.COM • +1 (512) 527-0453