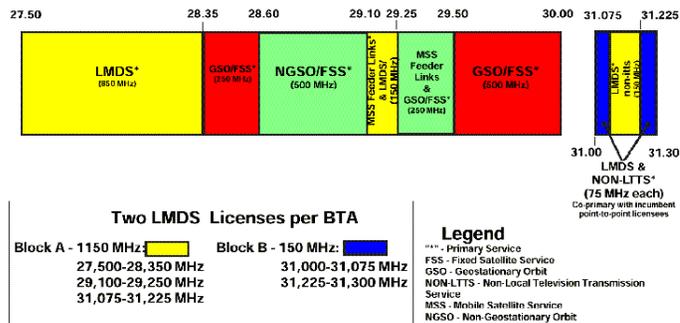


# LMDS Performance Assessment

## LMDS Band Allocation (Local Multipoint Distribution Service)

### 28 & 31 GHz Band Plan



## Objectives

To develop channel propagation models for the 30GHz frequency band incorporating nonlinearities in millimeter wave components and devices.

To develop adaptive equalization, coding, and modulation techniques for LMDS.

To contribute to the development of industry-consensus standards for LMDS.

## Collaborators/Customers

- Industry Collaborators: **Lucent**
- NIST Collaborators: **EEEL, N-WEST, ATP**
- Federal Partners: **FCC**
- Standards Groups: **IEEE, ETSI**

## Planned Products

Accurate channel propagation model for LMDS band taking into account weather-related attenuations and foliage.

Novel equalization, coding, and modulation techniques specifically developed for LMDS to ensure high quality video transmissions.

Contributions to yet nonexistent standards for LMDS.