Terragraph
Facebook Connectivity Lab

What is demonstrated

A 60GHz Wireless Network for Dense Urban environments
Small nodes on city street furniture
Utilizes high volume, low cost chipsets (WiGig)
Enabled by Facebook Connectivity Lab breakthroughs

Cloud computing optimizes traffic across the DN network
Beamsteering routes signals around obstacles

TERRAGRAPh Network

Hardware Information

- IEEE802.11ad Radio with Custom TDMA-TDD Mac Layer
- Multi-element Phase Array Antenna
- Built-in switch and hardware accelerated forwarding

What was improved

Packet Switched Beams and Dynamic Bandwidth Allocation

- Supports fiber-like bandwidth, delivered wirelessly
- High reliability due to cloud computed routing across nodes

Hardware Information

- Utilizes 60GHz spectrum
- Leverages wireless radios used in high volume consumer electronics (WiGig)
- Fast installation & configuration
- Small form factor
- Employs existing street furniture

Source code or detail technical information availability

http://tinyurl.com/Terragraph