



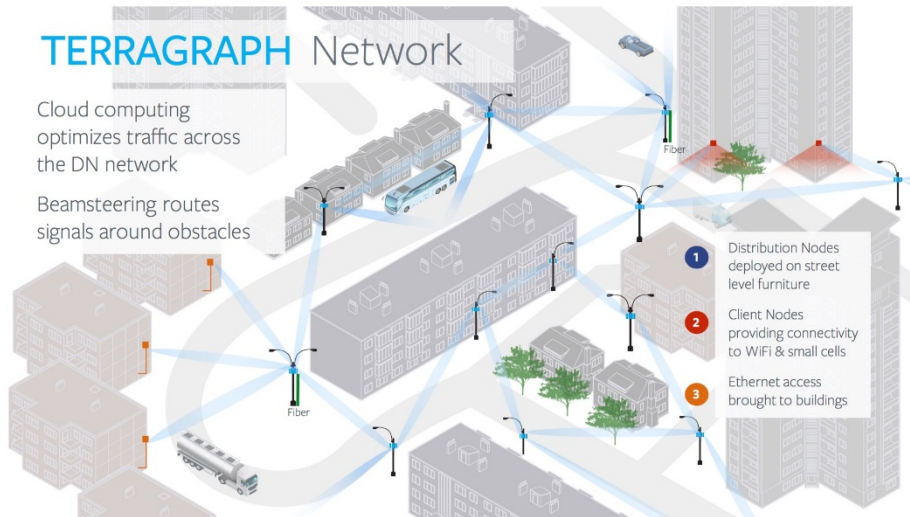
Terragraph

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



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



PERFORMANCE

Supports fiber-like bandwidth, delivered wirelessly

High reliability due to cloud computed routing across nodes



AFFORDABILITY

Utilizes 60GHz spectrum

Leverages wireless radios used in high volume consumer electronics (WiGig)



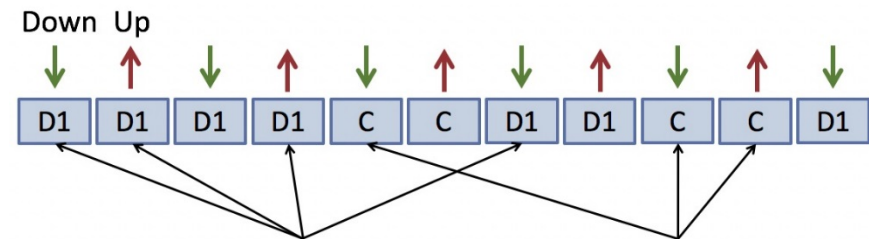
DEPLOYMENT

Fast installation & configuration

Small form factor

Employs existing street furniture

Packet Switched Beams and Dynamic Bandwidth Allocation



Source code or detail technical information availability

<http://tinyurl.com/Terragraph>