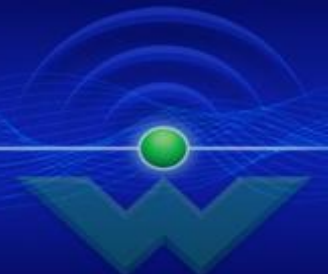




Citywide Wi-Fi Coverage
Wireless Security Networks

Wialan Technologies



Wireless. Internet. Access. Local. Area. Network (WIALAN)

Wireless technology designed for city & county size network capacity

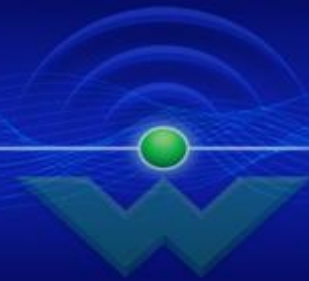
- Developer
- Manufacturer
- Industrial Grade

Secure and Reliable Connectivity:

- Cities & Counties
- Municipalities
- Businesses
- Public Facilities
- Marinas
- Hotels
- Residential Complexes
- Underserved / Non-serviced



Wireless Technology



Wi-Gate Series Access Points (AP)

Long Range

Intelligent Network Resources

Wi-Fi Coverage, Wireless Video Surveillance, Access Control, Automatic Meter Reading, Wi Fi Off load, any IP base service and much more

Local Distribution:

2.4 GHz (Wi-Fi)

4.9 GHz Public Safety

Mesh Network Support:

4.9 GHz (Public Safety)

5.3 GHz (Backhaul)

5.8 GHz (Backhaul)

WiMax Ready



Wi-Fi Dilemma No More

- Standard Industry APs are known for:
 - Small** radius range per device
 - Loss of quality and speed with increased distance
 - No more than 30 to 40 end-users simultaneously



- Wi-Gate 300-8-8 Two Radios Outdoor Access Point:
 - Quarter mile** Wi-Fi device connectivity in each Radio
 - Half Mile** connectivity with Customer Premise Equipment
 - No Loss** of Quality or Speed
 - Up to 200 simultaneous end-users**



Incredible Reach - Speed 54 Mbps 802.11g



Average competitor AP radius range

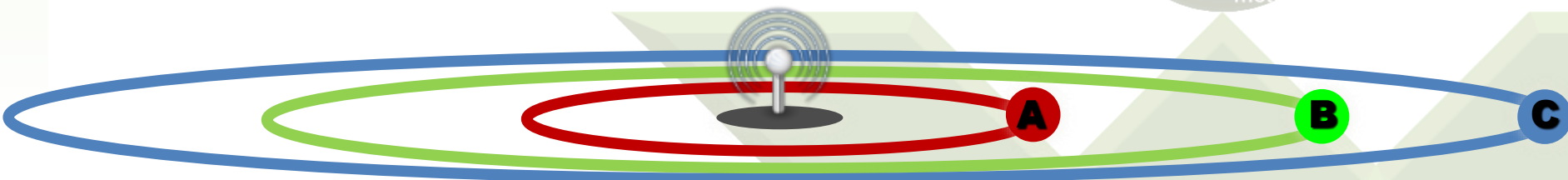
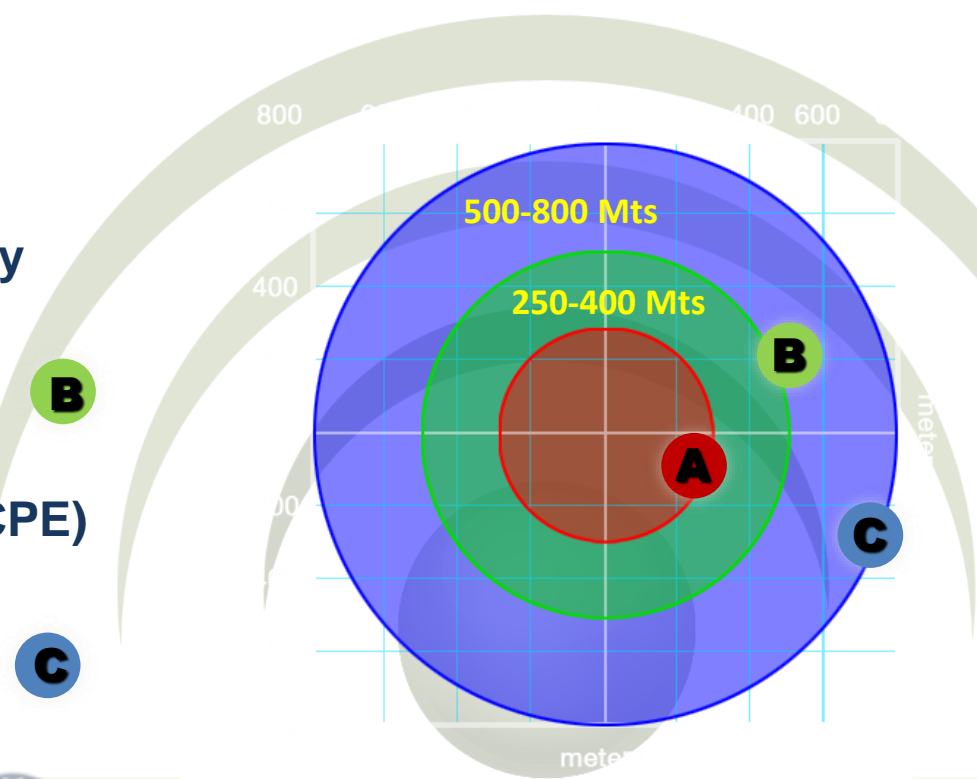
- 45 -100 Mts. Radius **A**

Wialan Wi-Fi device direct connectivity

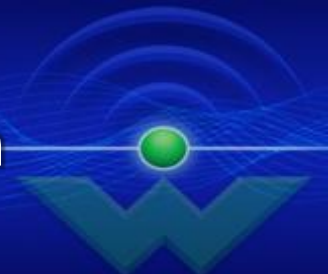
- 250 Mts. (.15 mile) / 54 Mbps **B**
- 400 Mts. (.25 mile) / 11 Mbps **B**

With Customer Premise Equipment (CPE)

- 500 Mts. (.3 mile) /54 Mbps **C**
- 800 Mts. (.5 mile) / 11 Mbps **C**



Incredible Reach - Speed 300 Mbps 802.11n



Average competitor AP radius range

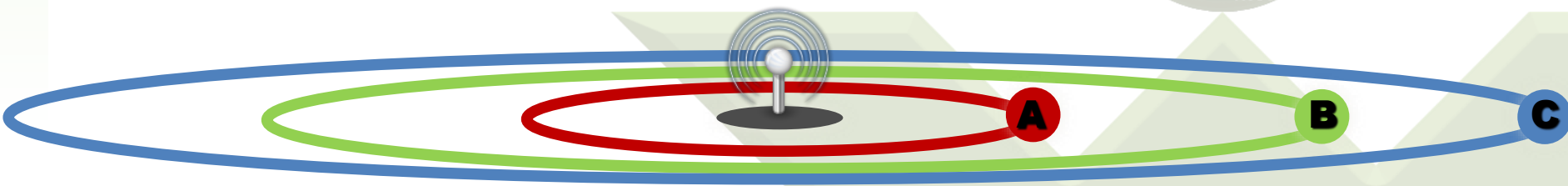
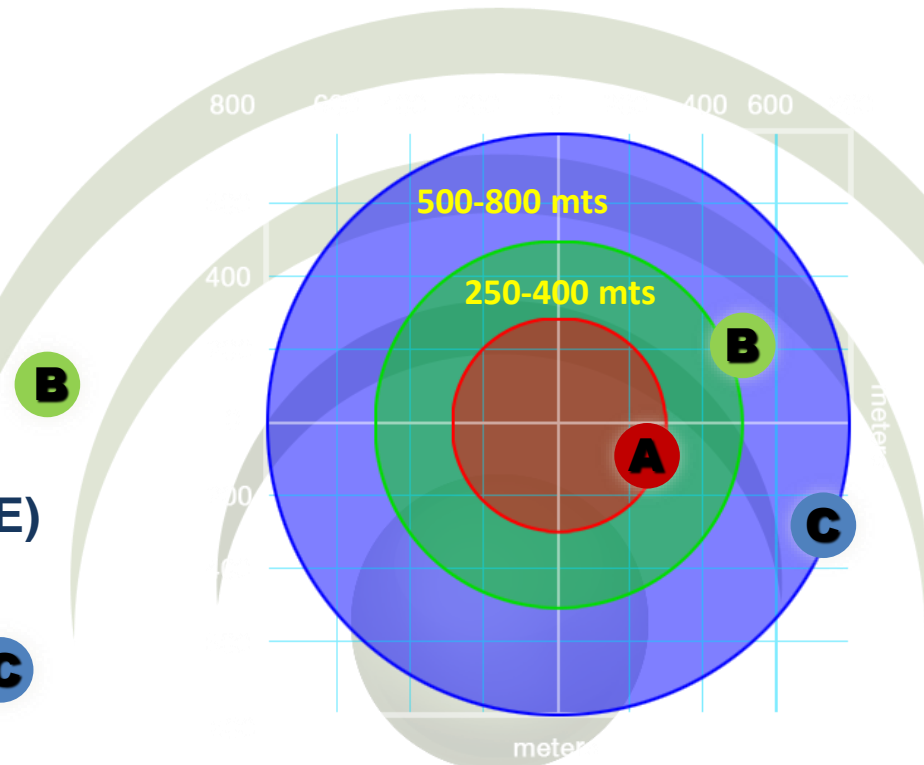
- 35 -75 Mts. Radius **A**

Wialan Wi-Fi device direct connectivity

- 250 Mts. (.15 mile) / 300 Mbps
- 400 Mts. (.25 mile) / 150 Mbps

With Customer Premise Equipment (CPE)

- 500 Mts. (.3 mile) /300 Mbps
- 800 Mts. (.5 mile) / 100 Mbps **C**



Current City Wide Wi-Fi Dilemma



Too many standard AP needed to cover one sq mile

Ex: Miami Beach Florida

In 2006, the commission approved a \$5 million contract with IBM to create the network. Under the deal, 95 percent of the city should have had free Wi-Fi by 2007.

That didn't happen. The problem: Ironically, creating a wireless network requires a hell of a lot of wires. To get a strong signal across one square mile, you need about 60 wireless signal nodes, says Fleishman.

<http://www.miaminewtimes.com/2010-01-21/news/miami-beach-spending-5-million-for-spotty-wi-fi/>

Current City Wide Wi-Fi Dilemma



Saturate easily

Most act as a bridge only

Low multitasking capabilities

Most have Slow processing speeds (ARM Processor)

Many fail to have NEMA Standard Enclosures

AP dependent on centralized command center

Users vulnerable to cyber threats (hackers, viruses)

No VPN from AP to Device included

Poor standalone network traffic & analysis capabilities

The Difference: Built In Resources and Features



Each Wi-Gate is its own Network handling distributed processing

500 MHz AMD GEODE CPU

256 MB Ram, 256 Solid state Storage

VPN Server included (40, 56, 128 bit Encryption)

Encrypted Mesh

Network Access Translation (NAT)

Bandwidth Shaper

Quality of Service (three levels)

Traffic Analyzer

Port Mapping Support

Client Signal Analyzer

Wi-Max and other technology ready

Patented Hermetically Sealed Enclosure

More features not listed here



The Distributed Network



Wi-Gate creates a Distributed Network Structure (DNS)

Reliable: If one AP fails the network can reroute itself using a variation of the spanning tree protocol concept, if pay portal goes under, system will still provide service to customer

Secure: VPN server (250 simultaneous VPN end users), encrypted mesh and firewall protection assures that users and network are safe from cyber threats

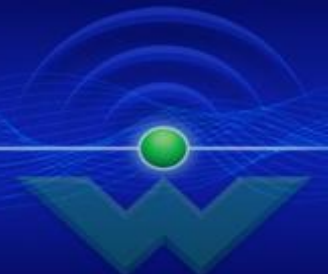
Intelligent: QoS (3 levels), bandwidth shaper, client signal analyzer, port mapping, and traffic analyzer help to manage network usage

Efficient and Fast: 500 MHz AMD Multitask processor, 256 MB of ram and hardware supported encryption enable quick packets transfer in the most demanding conditions

Profitable: Pay portal ready

Manageable: Remote support and advance management functionality.

Cover More With Less



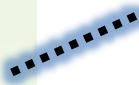
City Spot (Internet Source)



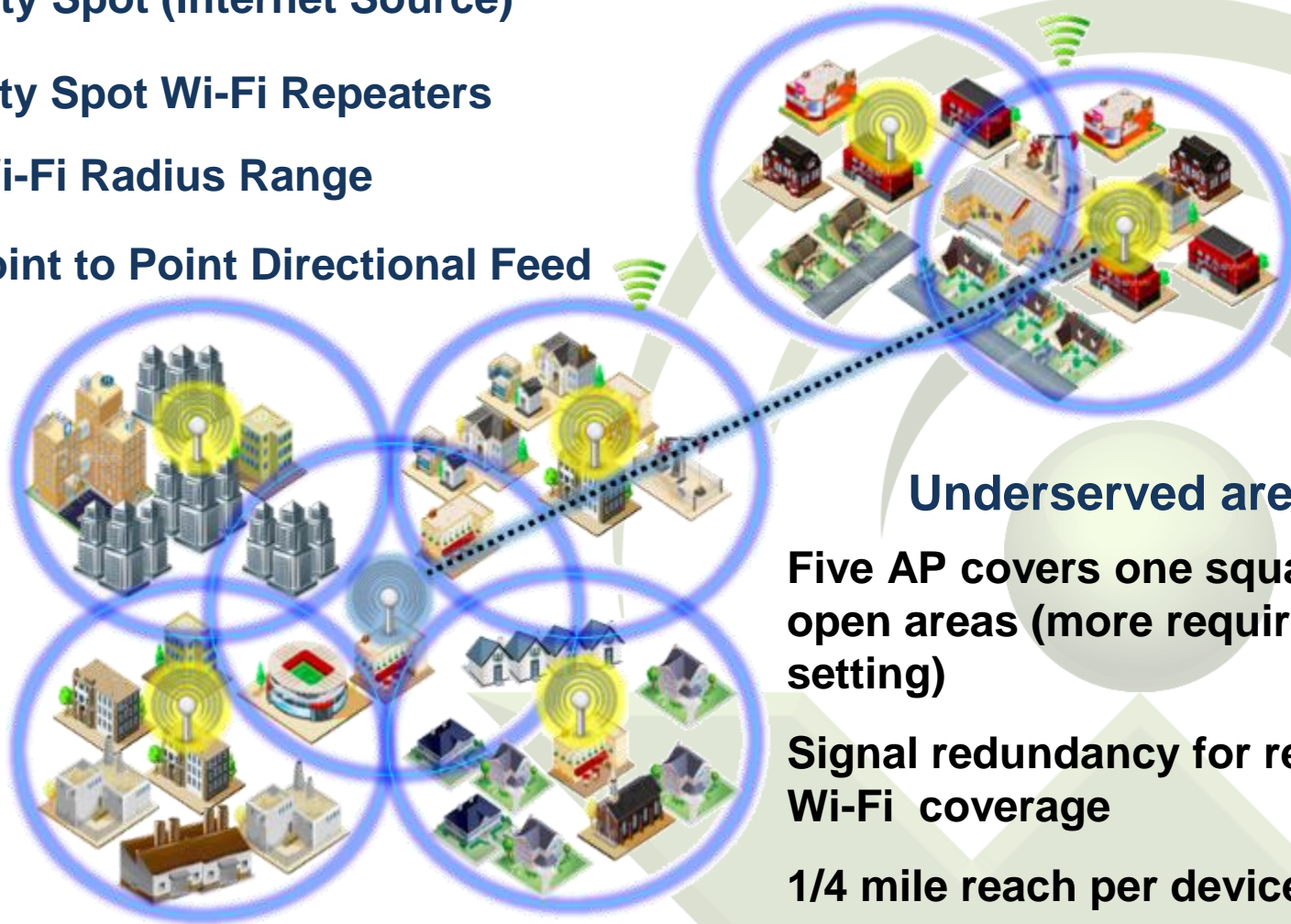
City Spot Wi-Fi Repeaters



Wi-Fi Radius Range



Point to Point Directional Feed



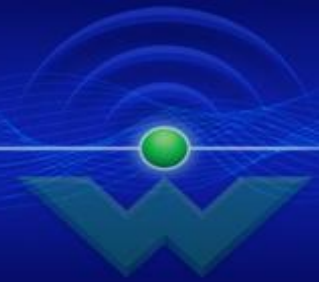
Underserved areas

Five AP covers one square mile in open areas (more required in city setting)

Signal redundancy for reliable Wi-Fi coverage

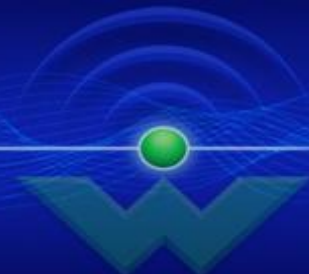
1/4 mile reach per device

Accomplish More with Less



- **Less access points and repeaters due to superior radius range**
- **Less time installing and launching network (plug and play)**
- **Less money on fewer devices therefore less installs**
 - **Full Wi-Fi coverage everywhere**
 - **Internet to underserved and non-served areas**
 - **Public safety wireless video surveillance**
 - **Wi Fi Off Load**
 - **Entire System Available with Solar power**
 - **Solar powered Cameras, switch, transmitter, and more**

Wialan Technologies is amongst the Industry's Top Providers



MOTOROLA

The Miami Herald

Miami Herald.com

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- Client squad has worlds largest eyes

GOULDS PARK

Free WiFi access now available at South Dade park

A free wireless service has been installed at Goulds Park as part of a six-month pilot project that companies are providing free.

Posted on Sun, Apr. 13, 2008

BY JESSICA HIRCHBERG
Special to The Miami Herald

Most people only dream of working in a park-like atmosphere. But for South Miami-Dade residents it's a reality, with the launching of a free wireless service at Goulds Park, 11350 SW 21st St.

Now residents can go to the park to do homework, work, or just surf the Web. Residents can access the Internet with a laptop at a picnic table — or go inside and use six computers.

The Miami-Dade Steering Committee launched the service Thursday, which is provided by the Wireless Miami-Dade Initiative.

The initiative is part of a six-month pilot project, which Mayor Carlos Alvarez said will help residents become part of the Internet age even if they don't have a computer at home. "I introduced the Wireless Miami-Dade Initiative with the vision of providing our community with a cost-effective and convenient way to access the Internet and make information readily available to everyone, anywhere in the county," Alvarez said. "Our goal is to create an environment that is technologically appealing to residents, visitors and businesses, to reach out to underserved people who frequent our parks with their families and friends, and to establish and maintain community safety," he added.

Park, Goulds Park is the first of the four parks to go wireless.

Wireless Miami-Dade has partnered with Wi-Fi providers, Motorola, Nortel, Cisco, and Wialan Technologies. Each park is sponsored by a different company. Goulds Park is sponsored by Wialan.

Along with going wireless, Goulds Park has installed six computers in the recreational area.

The wireless service is not just for surfing the Web. Wireless security cameras will enhance the safety of park-goers.

In the future, Alvarez is looking to expand Wi-Fi access to more parks and facilities such as the Metrolink and Metromover stations.

For more information about the Goulds program, call 305-255-2399.

Join the discussion

What is your 2008 Credit Score?

Excellent	750 - 850
Good	660 - 749
Fair	620 - 659
Poor	310 - 619
I Don't Know	????

Find out instantly!

QUICK CODE SEARCH

Enter Keyword(s):

Enter City:

Select a State: All United States

Select a Category: All Job Categories

Search Advanced Job Search

LOCAL NEWS VIDEO

“Wireless Miami-Dade has partnered with Wi-Fi providers, Motorola, Nortel, Cisco, and **Wialan Technologies**. Each park is sponsored by a different company. Goulds Park is sponsored by Wialan.”

Mayor Carlos Alvarez Partners with Wialan



The Miami Herald

“Our partnership with Wialan Technologies will enable County residents to surf the Internet, work and learn in a pleasant outdoor setting. It will help close the digital divide and keep our parks safe through the use of wireless security cameras,” Mayor Alvarez said.

- Published by the office of Mayor Alvarez

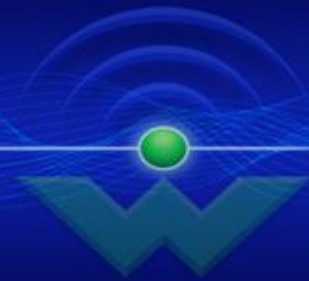


Parque Goulds de Miami

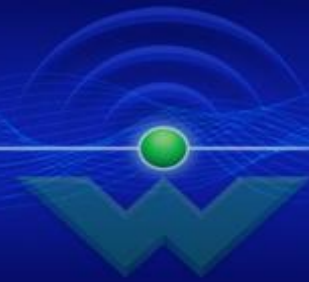
Video Surveillance Directly by Patrol Cars, Recording of event Directly on laptop hard drive for evidence.



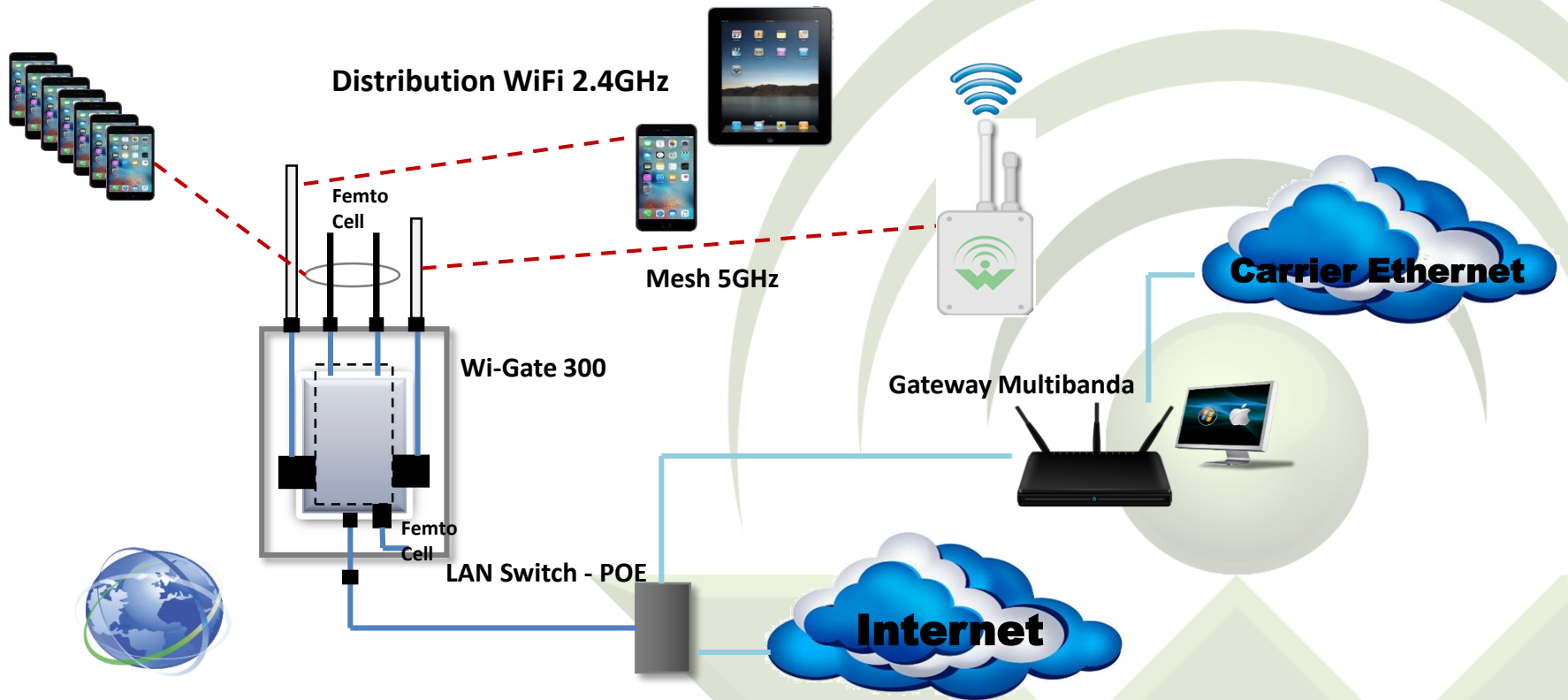
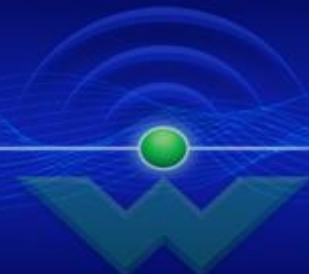
View of Surveillance with 4 Wireless Cameras.



Clarity and Color , Wireless Full HD 1080P (1920 X 1080)



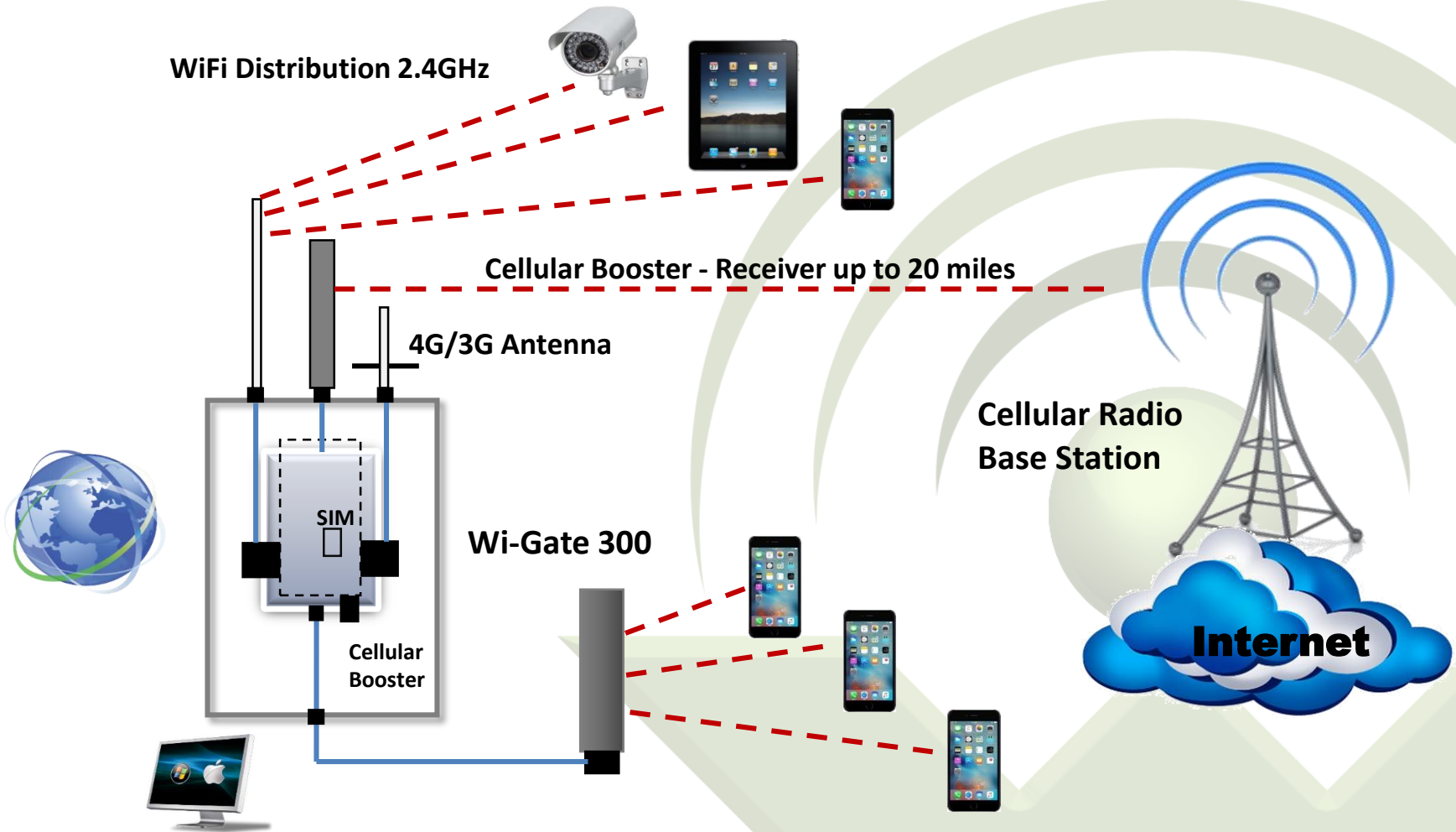
Cellular Solution



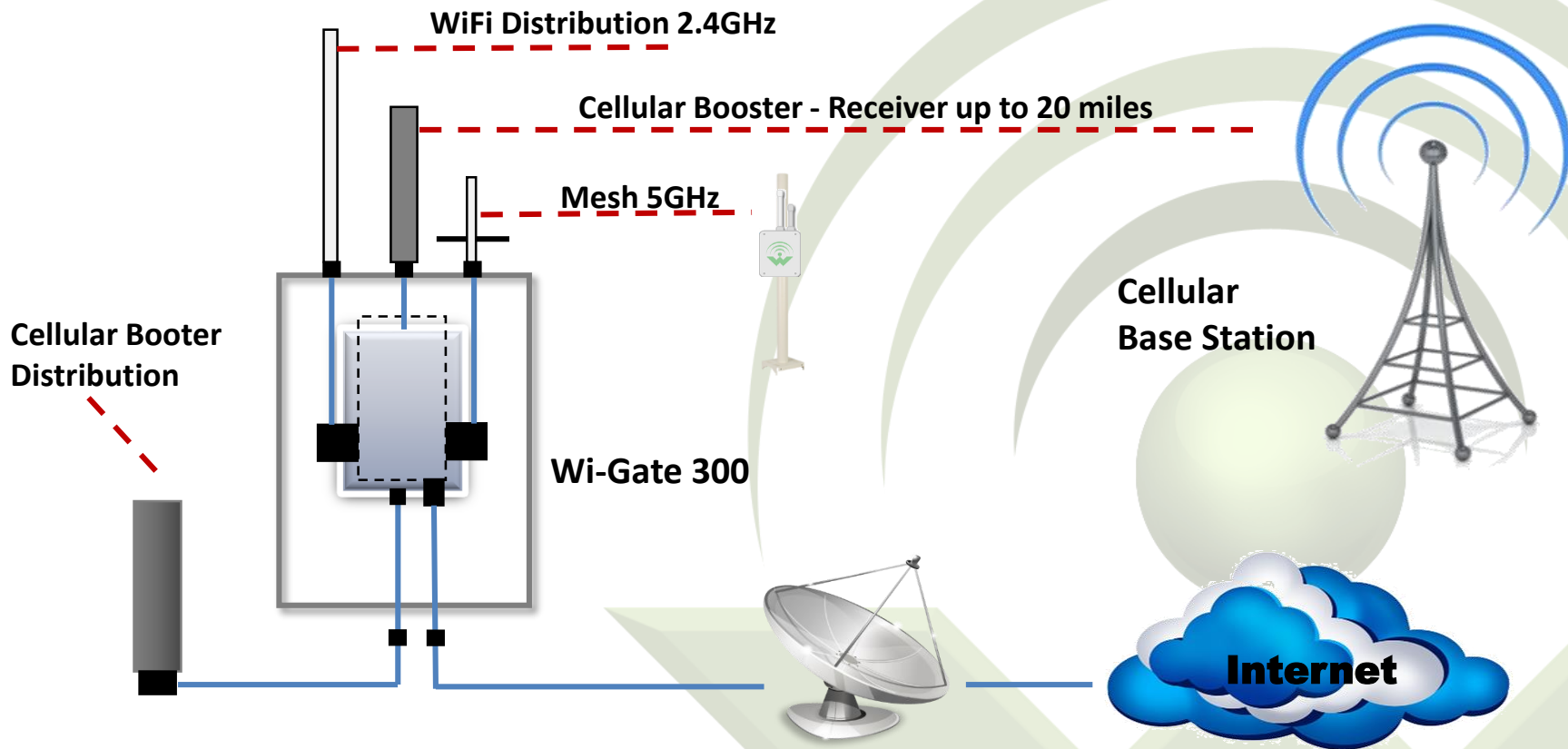
Cellular Distribution & WiFi – 4G SIM and Booster



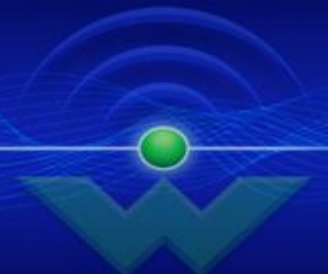
Internet Distribution & WiFi via 4G SIM








Cellular Distribution, Internet & WiFi w/ Satellite Link

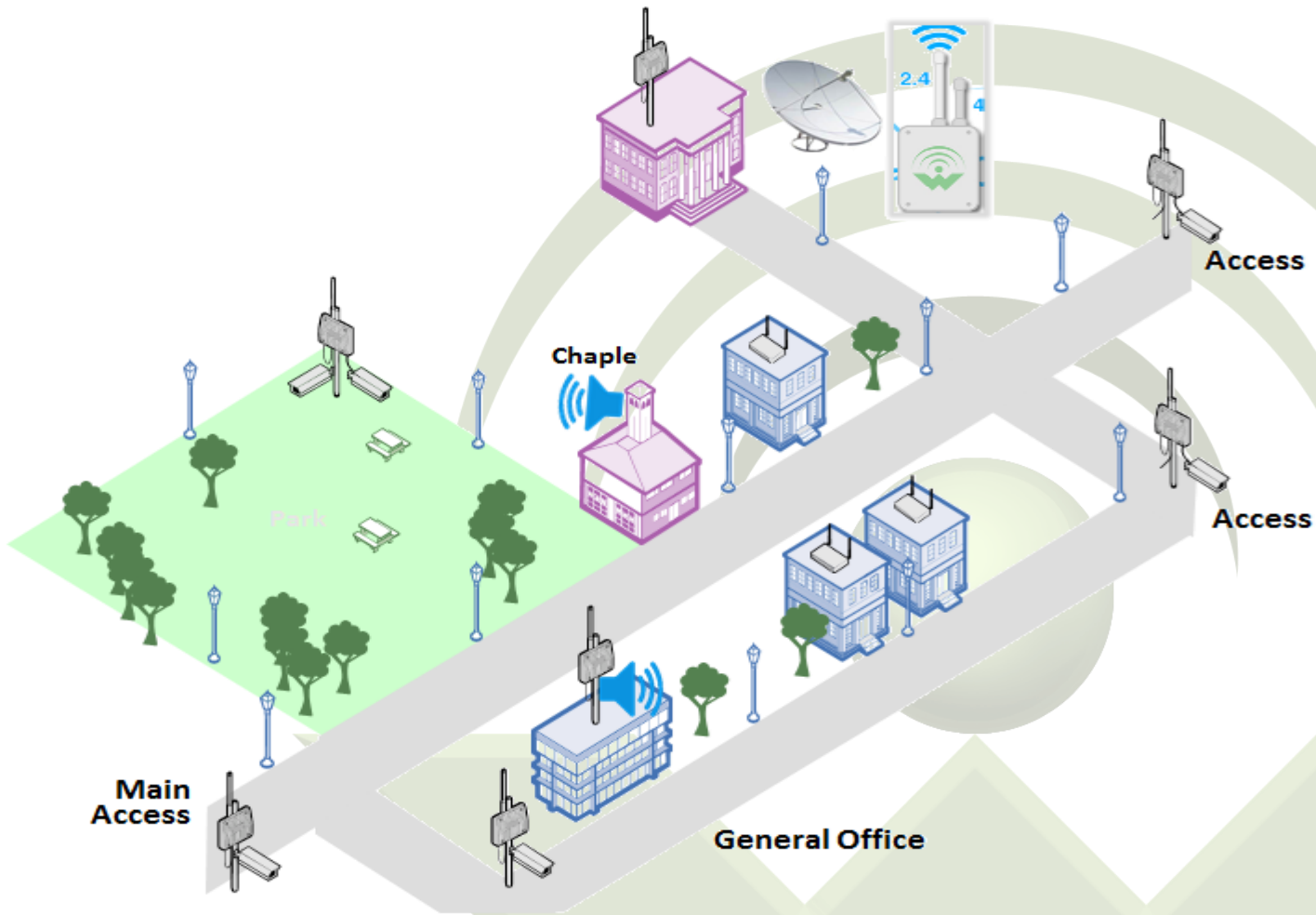


School Distribution in Dominican Republic

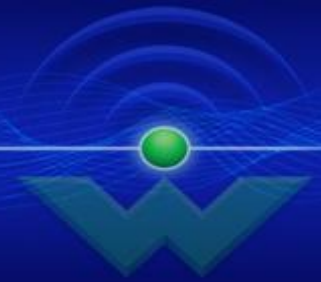


Leyenda

	Full HD Camera
	Point to Point
	WiFi Distribution
	PA System
	Wi-Gate 300



Installed Wialan Systems



Locations in U.S.

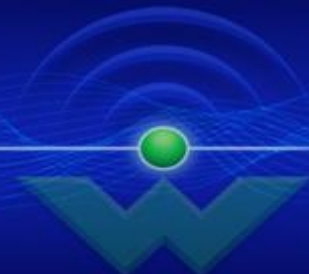
- Miami Dade Count, FL
- Coral Gables, FL
- Tampa, FL
- Cutler Bay, FL
- West Palm Beach, FL
- Ashland, OR
- Suffolk, MI

Internationally:

- Mexico Dominican Republic
- Bolivia Spain
- Ecuador Venezuela
- Colombia Uganda
- Chile Congo
- Guatemala Nicaragua
- Honduras



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