



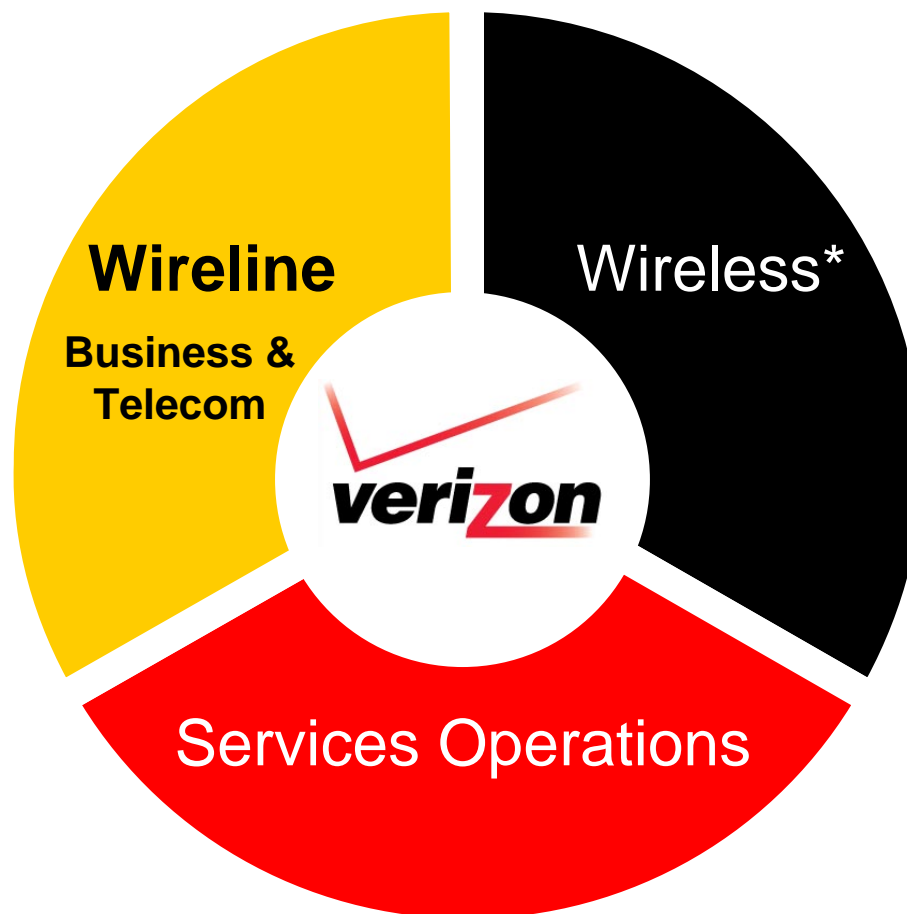
Enabling Mobility Solutions

IT'S THE NETWORKSM
FOR GOVERNMENT



Verizon Communications, Inc.

Lines of Business



* 45% owned by Vodafone



Agenda



- Verizon Wireless - Who We Are
- 3G Mobile Broadband Coverage
- Enterprise Solutions – Beyond Email
- 4G: Long Term Evolution (LTE)
- Q & A



Verizon Wireless – About Us



- Nation's Largest & Most Reliable Wireless Voice and 3G Network → 100.1 Million Customers*
- Committed to Excellent Customer Support → 83,000 Employees
- Committed to US Market Coverage → Cover nearly the entire U.S. Population ~ 290 million people



World Leaders

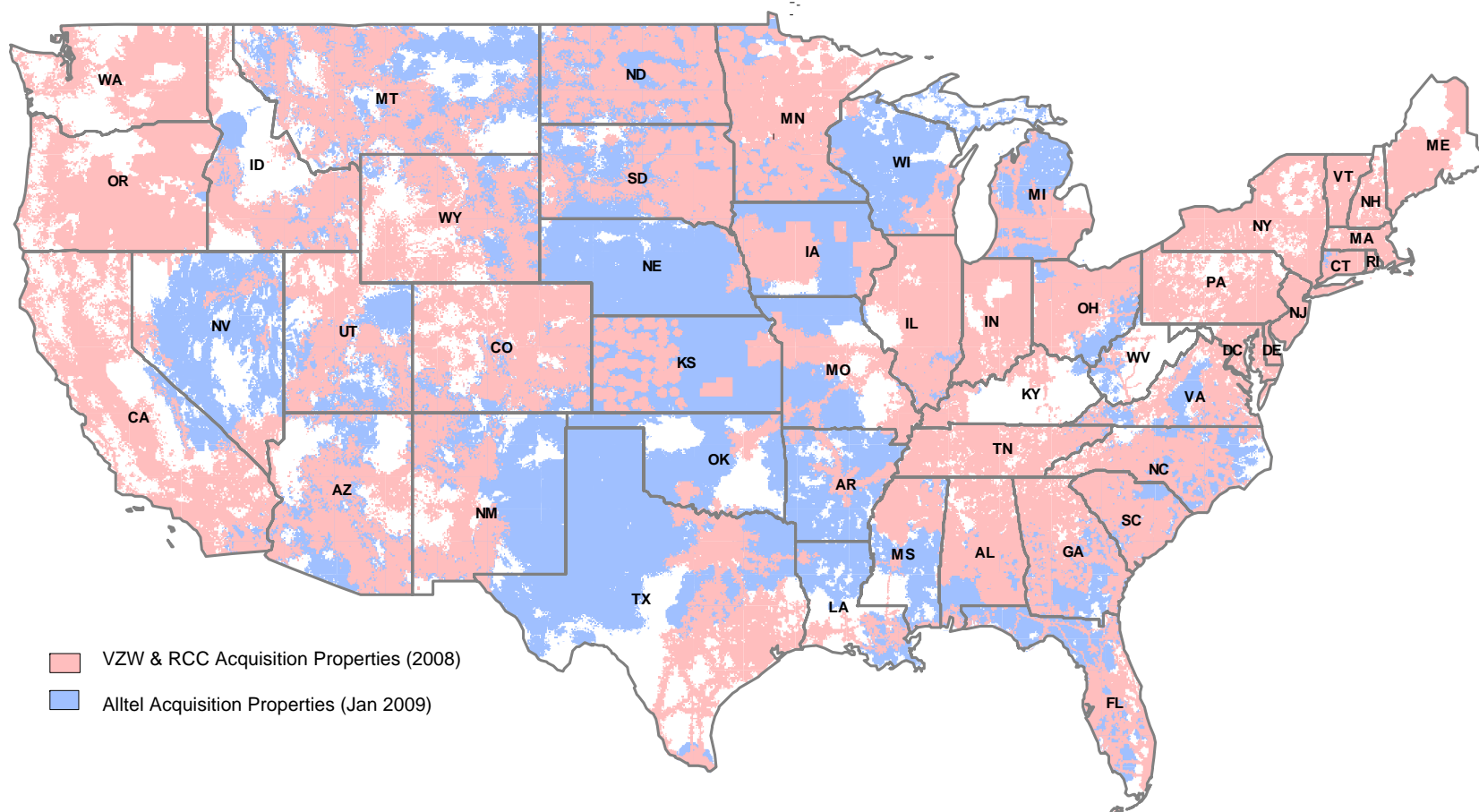
Verizon Wireless' parent companies Verizon Communications and Vodafone are ranked among the largest companies in the world.



* Includes 7.3M connections



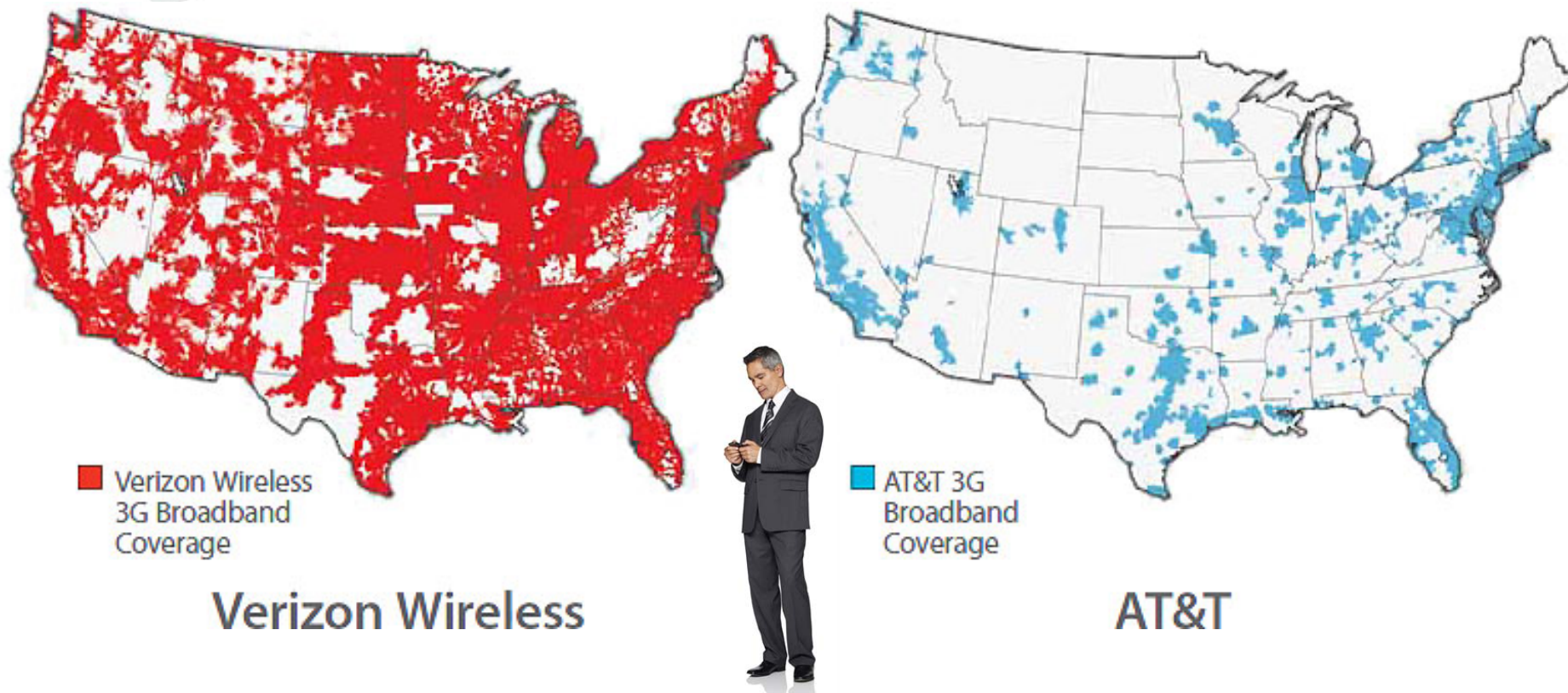
Verizon Wireless Licensed Properties



~290M covered POPs

~2.4M covered square miles

America's Largest 3G Network – There's a Map For That.



The red shows approximate Verizon Wireless 3G coverage. The competitor's approximate 3G coverage is from publicly available information gathered prior to February 2010. Comparison based on square miles covered with 3G. Voice and data service available outside 3G coverage area. This does not show exact coverage. Wireless service is subject to network and transmission limitations, particularly near boundaries and in remote areas. Customer device, weather, topography and other environmental considerations affect service, which may vary significantly in buildings. More recent 3G coverage may be available at verizonwireless.com/bbaccovage and wireless.att.com/coverageviewer.

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Global Footprint Expansion and Support



2010 Coverage *	
Voice Destinations	Data Destinations
221	220*

* Global Coverage as of April 29, 2010
107 countries with 3G service available



Verizon Wireless has a dedicated team to support your global needs

- Global voice and data technical assistance is available 24x7, including all holidays
- 125 + resources dedicated to global support
- A welcome text message is sent to you when you reach your destination



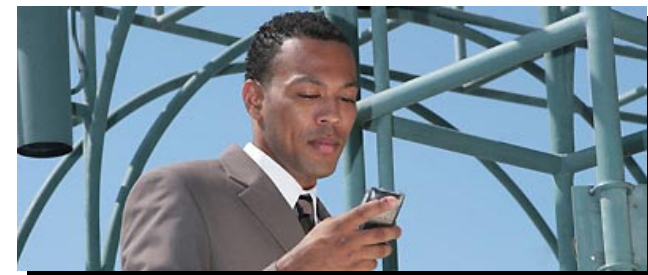
Verizon Wireless Solutions Partners



BEYOND EMAIL SOLUTIONS

Organizations which plan to extend business applications to wireless handheld devices, have the following expectations:

- * Increased workforce productivity & efficiency
- * Reduced costs
- * Enhanced services
- * Improved accountability for work processes & utilization
- * Access to business statistics & reports
- * Improved data collection & accuracy



BEYOND EMAIL SOLUTIONS



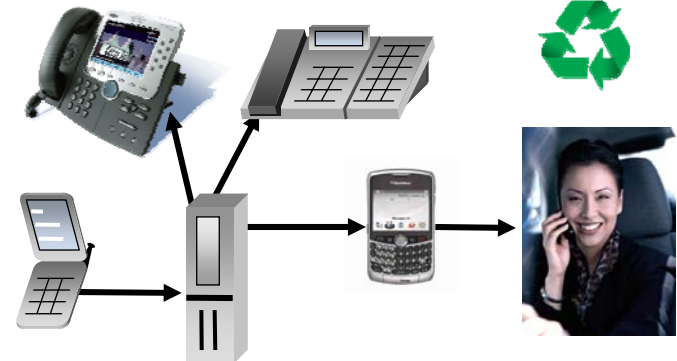
- **Wallace Wireless & Onset Technology**
 - Continuity Of Operations (COOP) Solutions
 - **WIC**Pager pager replacement solution
- **Antenna Vaultus**
 - Software enables business applications on BlackBerry and Windows Mobile devices
 - Examples: Knowledge Dashboards/Scorecards that monitor vital business metrics, IT Help Desk, Field Service, SharePoint
- **IPVision Software**
 - Risk Management software security solution using Smart IP based camera(s) set at a perimeter to detect movement
- **BlackBerry Mobile Voice System**
 - Fixed to Mobile Integration
 - Extends functionality of corporate PBX to BlackBerrys outside the office
 - Real-time, single number reach
 - Increases presence/availability to customers, suppliers, and partners



Wallace
Wireless



ANTENNA™
VAULTUS



BEYOND EMAIL SOLUTIONS



- **Field Force Manager (FFM)**

- Information & Process Flow between field workers and office
 - Track Workers via GPS, keep track of time, fast and efficient dispatching, eliminate paper forms
 - FFM Custom: Seamless integration with your back-office systems to reduce paperwork and expedite payroll



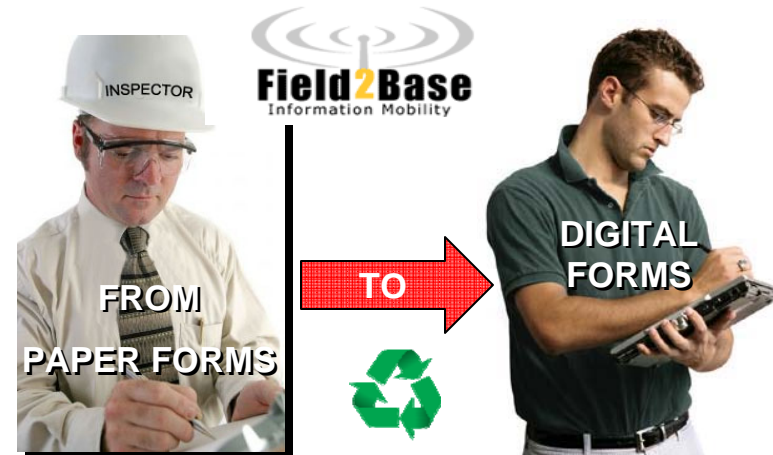
- **R-Approval™ by Regard**

- R-Approval™ is a self-contained approval management solution securely notifies approving managers the instant a new requisition arrives, allowing decisions to be made in real-time.
 - Examples: Expense Report Approval, Travel Authorizations, Purchase Requisitions, Budget Approval, Timecard Submissions



- **Field2Base**

- Field2Base eliminates paper but more importantly it eliminates the **“Paper Process”**. Using Digital forms saves Government Agencies thousands of dollars a month.



M2M Communication



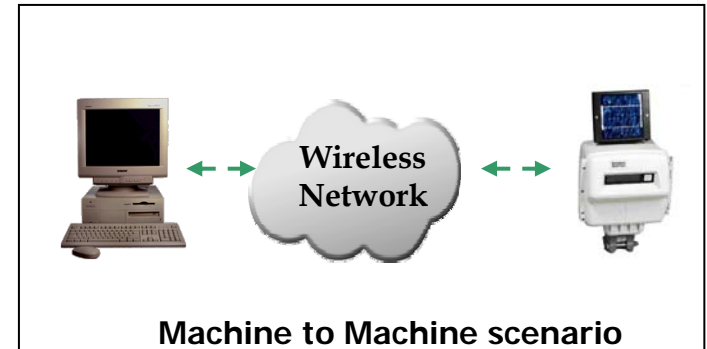
What is M2M Communication?

M2M (Machine to Machine) is a technology that supports wired or wireless communication between machines.

M2M cellular communication is a communication where a remote machine is monitored or controlled by a central server and the network link between the two machines is provided by a cellular network.



Machine to Mobile scenario



Machine to Machine scenario

In **Machine to Mobile** applications the user can find out and/or change the state of the remote machine using a service interface.

The commands on the remote machine can be triggered through simple SMS alerts, exploiting the functionalities provided by cellular networks. With the much higher bandwidth supplied by 3rd generation cellular technology, the service interface can be a combination of cellular-specific and web applications.

Machine to Machine Technologies



Sensors

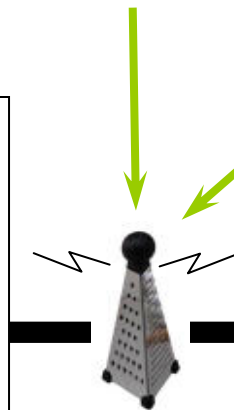
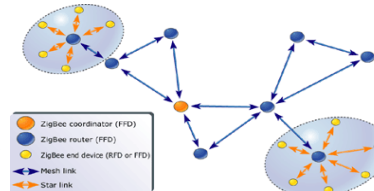
Embedded Devices

Wireless Networks

The 4 Major M2M Technologies

- Sensors
- Embedded Devices
- Wireless Networks
- Sensor Networks

Sensor Network



4G: Long Term Evolution (*LTE)

The Next Generation Technology



- Economies of Scale
- Widespread Global Roaming
- Device Ubiquity



*** The de facto 4G Worldwide Standard**

4G Roadmap – LTE - Long Term Evolution



- **All “IP” Network**
 - End-to-end, always on, IP connectivity
- **Broader Device Portfolio**
 - Ultra Mobile PC
 - Cars
 - Appliances
 - Cameras, etc.
- **Expanded Service Options**
 - Machine-to-machine
 - Real-time Mobile video, etc.
 - Fixed Mobile Convergence



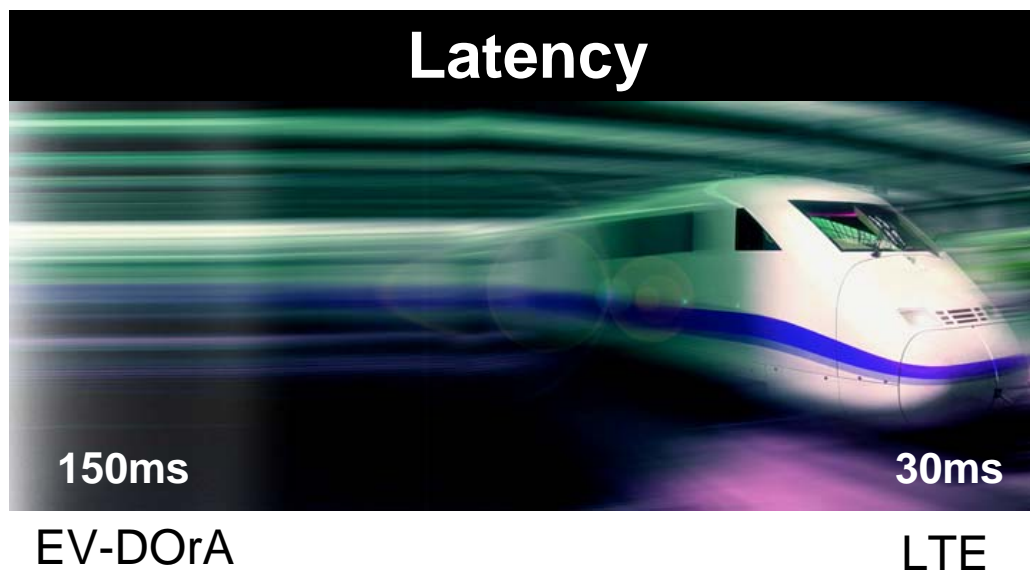
4G LTE versus 3G EV-DOrA



Throughput



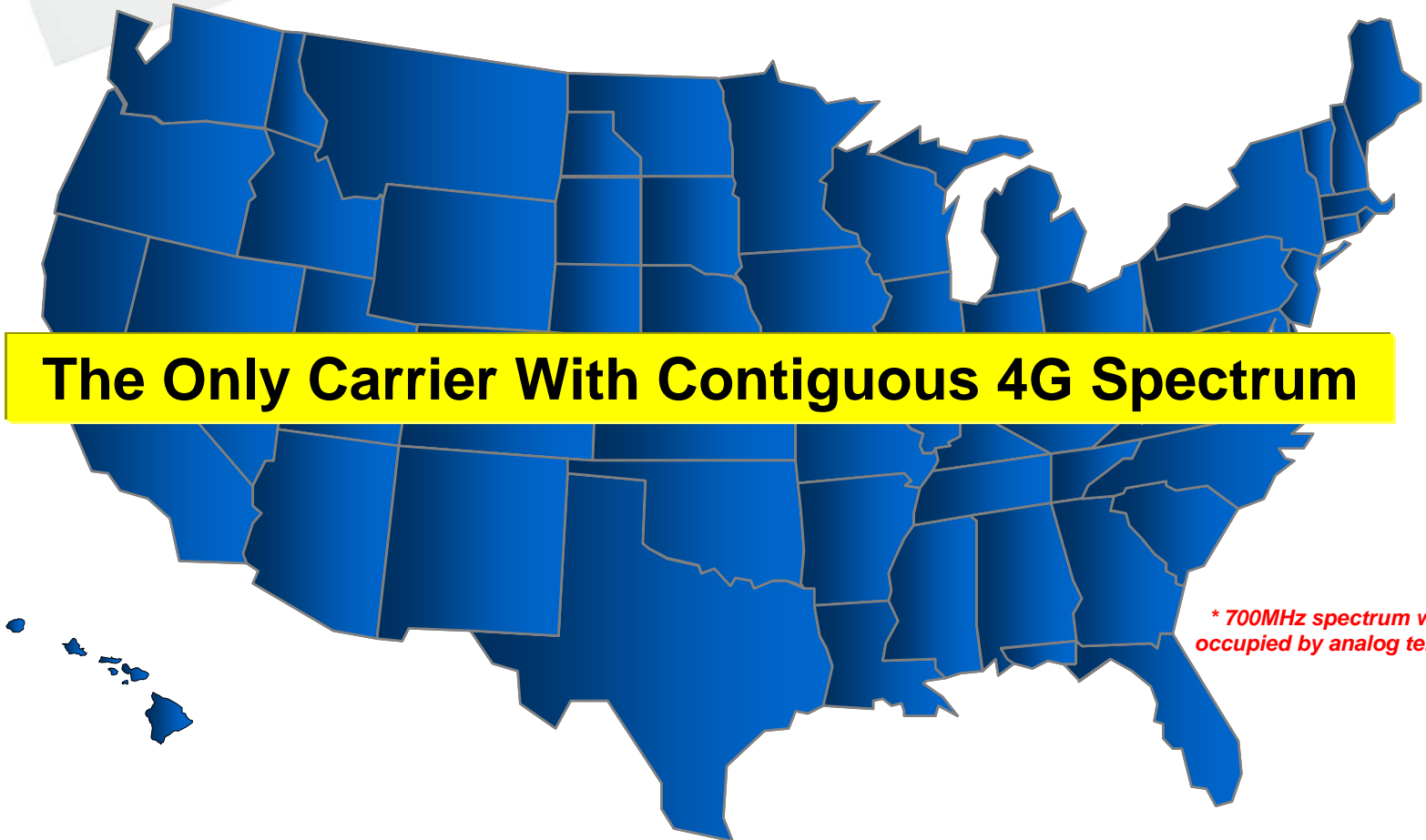
Latency



Verizon Wireless 4G License Map



Verizon 700 MHz Licenses *



The Only Carrier With Contiguous 4G Spectrum

** 700MHz spectrum was previously occupied by analog television signals*

Verizon Wireless will be the first in the U.S. and among the first in the world to launch LTE, starting with 25 to 30 markets in late 2010.

Questions/Discussion



**IT'S THE NETWORKSM
FOR GOVERNMENT**



THANK YOU!

