

Wireless Provisions in the National Broadband Plan

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Overview

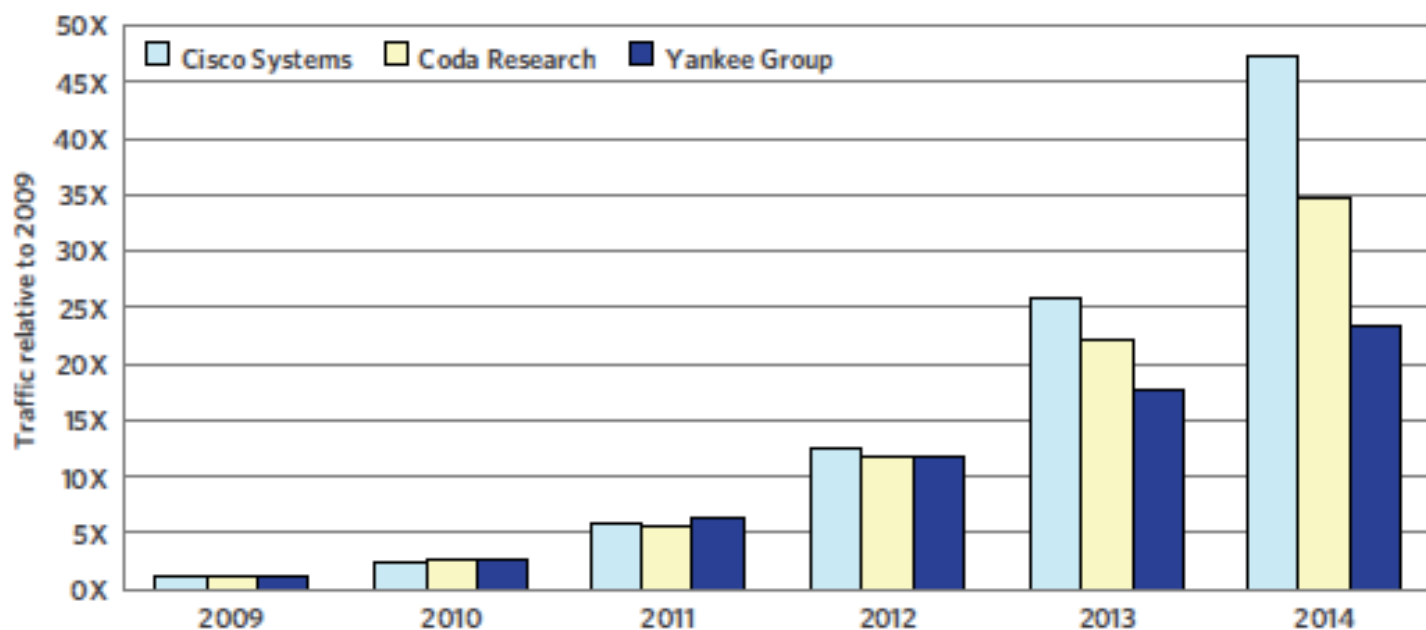
- Key Recommendations
- Increasing Spectrum Availability
- Increasing Spectrum Efficiency
- Increasing Access
- Reducing Obstacles
- Public Safety
- Implementation and Timing

Key Recommendations

- Increasing spectrum availability and modifying spectrum policy;
- Reducing obstacles that may slow facility deployment or increase investment costs;
- Increasing access to mobile broadband for all Americans; and
- Improving mobile communications for public safety.

Consensus that More Spectrum is Needed

*Exhibit 5-A:
Forecasted Mobile
Data Traffic in
North America*



How Do We Fill the Gap

- Allocate more spectrum
- Increase efficient management of already-allocated spectrum

Allocate More Spectrum

- The Plan sets a goal of 500 MHz for mobile use by 2010
- 300 MHz made available within 5 years

300 MHz of Spectrum

Increasing
Spectrum
Availability

*Exhibit 5-E:
Actions and
Timeline to Fulfill
300 Megahertz
Goal by 2015*

Band	Key Actions and Timing	Megahertz Made Available for Terrestrial Broadband
WCS	2010—Order	20
AWS 2/3 ⁶¹	2010—Order 2011—Auction	60
D Block	2010—Order 2011—Auction	10
Mobile Satellite Services (MSS)	2010—L-Band and Big LEO Orders 2011—S-Band Order	90
Broadcast TV ⁶²	2011—Order 2012/13—Auction 2015—Band transition/clearing	120
Total		300

Spectrum Allocation Process

- “Traditional” Auctions
- Increase Flexibility of Use
- Incentive Auctions

Broadcast Spectrum Example

Increasing
Spectrum
Availability.

- Increase efficiency of use
 - repack spectrum
 - permit sharing of 6 MHz channels
- Incentive Actions for reclaimed spectrum
- Broadcasters are very excited about this –

NOT



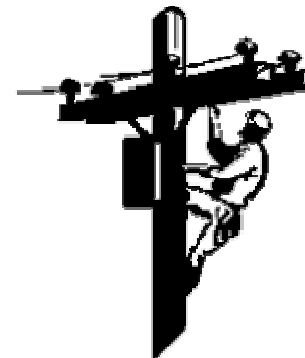
- Spectrum Dashboard:
<http://reboot.fcc.gov/reform/systems/spectrum-dashboard/about>
- Increasing incentives (\$\$\$) for agencies to relocate off federal spectrum
- Spectrum fees
- Review of secondary markets policies and rules
- Promote innovative and flexible approaches to spectrum allocation at ITU
- Consider the unique spectrum needs of U.S. Tribal communities.

Steps to Close Adoption Gap

- Create “Mobility Fund”
- Free / low cost access to broadband as a condition of spectrum licensing
- Rulemaking to fund wireless connectivity to portable learning devices
- Facilitate roaming

Steps to Aid with Facility Deployment

- Improve pole attachment process
- Permit use of government ROW, building and facilities
- Rule modifications to promote point to point wireless backhaul services



Key Goal: Improving Mobile Communications For First Responders

- Develop 700 MHz public safety broadband network
 - achieve “long overdue interoperability”
 - ensure access to sufficient capacity for first responders.
- Establish public-private partnerships including a commercial “D block” Licensee



Other Goals

- Establish and fund an Emergency Response Interoperability Center (ERIC)
- Develop and deploy Next Generation 911
- Launch a next-generation alert system inquiry to review: EAS, CMAS and IPAWS

Implementation and Timing

Proposed 2010 Key Broadband Action Agenda Items

	Q2 2010 (CY)	Q3 2010 (CY)	Q4 2010 (CY)
Promote World-Leading Mobile Broadband Infrastructure and Innovation	Mobile Roaming Order and FNPRM (WTS)	AWS Bands Analysis (WTS, GET)	AWS Potential Order (WTS, GET)
		D Block Order/NPRM (WTS, PSHSB) [Also in Public Safety]	Secondary Markets Internal Review (WTS)
		Spectrum Sharing/Wireless Backhaul NPRM/NOI (WTS, GET)	Spectrum Dashboard 2.0 (WTS, GET, PSHSB, MB, IB)
Accelerate Universal Broadband Access and Adoption		Mobility Fund NPRM (WTS, WCS)	
		Hearing Aid Compat. Second Report & Order/FNPRM (WTS, GET, CGB)	Spectrum on Tribal Lands NPRM (WTS, CGB)
Foster Competition and Maximize Consumer Benefits Across the Broadband Ecosystem	Mobile Wireless Competition Report (WTS, OSP)		
Advance Robust and Secure Public Safety Communications Networks		Public Safety Roaming & Priority Access NPRM (WTS, PSHSB)	
		D Block Order/NPRM (WTS, PSHSB) [Also in Mobile]	

Questions?

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