

Technological Advisory Council Meeting

March 28th 2012



New TAC Members

- Greg Chang – Yume
- Marty Cooper – Dyna
- Adam Drobot – OpenTechWorks
- Milo Medin – Google
- Mark Richer – ATSC
- Kevin Sparks – Alcatel Lucent
- Glen Tindal – Juniper Networks
- Joe Wetzel - EarthLink



2012 TAC Representation

Accenture	Comcast	Hummer Winblad	NAB	Verizon
Alcatel-Lucent	Core Capital Partners	incNetworks	New Venture Partners	Virginia ISP Assoc
Apple, Inc.	Dell Inc.	Insight Venture Partners	OPASTCO	VON Coalition
ARRL	Dyna LLC	Intel Corporation	Qualcomm	WildBlue
AT&T	EarthLink, Inc.	Juniper Networks	Subject Matter Experts	WNRC
ATSC	GENBAND	Level 3		XO
Bright House Networks	General Atlantic	Liberty Global	Silicon Flatirons	YuMe, Inc.
Caida	Google, Inc	Loral	Subject Matter Expert	
CEA	Harris	Microsoft	Time Warner Telecom	
Cisco Systems	Home Box Office	Motorola	Tiversa	



2011: A Success Story

- Recommendations Made to Chairman on broadband deployment:
 - ‘Race to the Top’
 - EO for broadband use of federal land and buildings
 - Fast-track deployment on existing towers
 - Educational outreach on deployment best practices
 - Development of common tools for coordination of planned infrastructure projects
 - Develop new broadband metrics beyond speed
 - Develop knowledge on legacy transition issues
 - Commission should focus on evolution to all IP network and its effect on consumers and end users
- Commission engaged on recommendations



2011 Accomplishments

- Workshop: Small Cell Technology
- Workshop: Telephone Network In Transition
- Workshop: DAS & Small Cell Technology Education Workshop
- Proposed IPv6 tracking metrics
- Created CEA IPv6 Work Group
- Recommended ongoing IPv6 industry/government monitoring group
- Issued white paper on Spectrum Efficiency
- Recommended focus on PSTN transition
- Met with industry, trade groups, academia, government experts
- HR 3609 incorporated TAC language on tower siting and right of way
- HR 3609 requires GAO to undertake study on receiver performance and spectrum efficiency



2011 Success Factors

- Picking the ‘right questions’
 - Joint interest between Commission and TAC members on the subject
- Effective leadership within work groups
- Ongoing discussion of work group results and adjustments of objectives at TAC meetings



2012 TAC Objectives



Work Groups

- PSTN Transition Issues Work Group
- PSTN Successor Infrastructure Work Group
- Receivers and Spectrum Work Group
- Multi-band Devices Work Group
- Wireless Apps and Services Work Group (M2M)
- Wireless Security Work Group



PSTN Transition Issues Work Group

The *PSTN Transition Issues Work Group* will focus on identifying and evaluating issues that arise out of the shift in voice service usage patterns. As consumers and businesses use different networks and infrastructures to meet needs traditionally served by the PSTN, a variety of challenges emerge...

Leader: Nomi Bergman (Brighthouse)/Russ Gyurek(Cisco)

Ahmed, Shahid	Accenture	Sirbu, Marvin	Carnegie Mellon University
Bergman, Nomi	Bright House Networks	Teets, Harold	Time Warner Telecom, Inc.
Gyurek, Russ	Cisco	Waters, Jack	Level 3 Communications LLC
McHugh, John	OPASTCO	Wetzel, Joe	Earthlink
Melone, Anthony	Verizon		

FCC Liaison: Dan Kirschner



PSTN Successor Infrastructure Work Group

The *PSTN Successor Infrastructure* Work Group will focus on identifying key elements essential to an IP-based real-time communications infrastructure. As consumers and businesses turn to other networks to replace functionality previously provided by the current voice network, questions arise as to how those networks can replicate the best characteristics of the circuit-switched network while taking advantage of their advanced technological underpinnings...

Leader: Brian Daly (AT&T)/Tom Evslin(VON Coalition)

claffy, kc	UC at San Diego	Field, Charlotte	Comcast	Teets, Harold	TW Telecom
Bayliss, Mark	Visual Link	Gyurek, Russ	Cisco Systems	Tennenhouse, David	New Venture Partners
Clark, David	MIT	Kahn, Kevin	Intel	Vogt, Charlie	GENBAND
Daly, Brian	AT&T	Reed, Dan	Microsoft	Wetzel, Joe	Earthlink
Evslin, Tom	VON	Russell, Jesse	incNetworks	Zitter, Robert	HBO
Nasielski, Jack	Qualcomm				

FCC Liaison: Henning Schulzrinne



Receivers and Spectrum Work Group

The *Receivers and Spectrum Work Group* will tackle the issue of the role of receivers in ensuring efficient use of the spectrum and how to avoid potential obstacles to making spectrum available for new services...

Leader: Dennis Roberson

Claudy, Lynn	NAB	Roberson, Dennis	IIT
Currier, Richard	Loral	Gorenberg, Mark	Hummer, Winblad
Green, Dick	Liberty Global	Lapin, Gregory	Amateur Radio
Hatfield, Dale	Silicon Flatirons	Markwalter, Brian	CEA

FCC Liaison: Julius Knapp



Multi-band Devices

Leader: _

Chapin, John	DARPA	Nasielski, Jack Nasielski, Jack	Qualcomm
Cooper, Marty	Arraycomm	Richer, Mark	ATSC
Markwalter, Brian	CEA	Russell, Jesse	incNetworks

FCC Liaison: Michael Ha/Chris Helzer



Wireless Apps and Services (M2M)

The *Wireless Apps and Services* Work Group will continue and build upon the good work of the previous TAC's Sharing Work Group on reducing application friction points...

Leader: Shahid Ahmed

Sparks, Kevin	Alcatel Lucent	Tindal, Glen	Juniper
Bloom, Peter	General Atlantic	Tribble, Bud	Apple
Chang, Greg	Yume	Parekh, Deven	Insight Venture Partners
Evslin, Tom	VON	Clark, Wesley	WKC Assoc.
Mendin, Milo	Google	Zitter, Robert	HPB

FCC Liaison: Walter Johnston



Wireless Security and Privacy

The *Wireless Security and Privacy* Work Group will examine the security vulnerabilities of the air interfaces used by commercial wireless networks, how they are being addressed and what role, if any, the Commission should play on this issue...

Leader: Kevin Sparks

Kahn, Kevin	Intel Corporation	Nicklas, Randy	XO
Sparks, Kevin	Acatel Lucent	Reed, Daniel	Microsoft
Mendenhall, Geoffrey	Harris Corporation	Steinberg, Paul	Motorola

FCC Liaison: Gregory Intoccia

