



IPCC

International Packet Communications Consortium

The Industry VoIP Forum - Making It Happen!

www.packetcomm.org

NEWSLETTER

January 2005

Volume 4, Issue 1

MESSAGE FROM THE CHAIRMAN

Dear IPCC Members:

We are at an inflection point as wireless and wireline services converge. In response to our members' request, the IPCC has established the Fixed Mobile Convergence Working Group. This new Working Group will set the reference architecture for feature transparency and seamless mobility across wireline (DSL, Fiber, and Cable) and wireless (3G, WiFi, and WiMAX) networks. Its work will include mobile handover between GSM and WiFi/WiMAX, and IP Multimedia Subsystem (IMS) within 3GPP. This Working Group will also liaise with the appropriate standards bodies such as ANSI, ETSI, IETF, 3GPP, DSL, and WiMAX Forums to expedite the proposed reference architecture. The Fixed Mobile Convergence Working Group was founded by IPCC members Nextel, UTStarcom, Tekelec, Cisco, Alcatel, Sonus, Brooktrout, Trendium, Convedia, eLEC/VoX, and Time Warner Telecom.

Ahmed Bencheikh, Director - Switching, Nextel Communications, will serve as Chairman of the Fixed Mobile Convergence Working Group, and Payam Maveddat, Assistant Vice President - Next Gen Wireless Switching Solutions, Tekelec, along with Farshid Mohammadi, General Manager - Switching, UTStarcom, will serve as its Co-chairs. This Working Group, like other IPCC Working Groups, is open to all members, so please register as soon as possible by contacting [Debbie Hetland](mailto:Debbie.Hetland).

The IPCC is frequently invited to support industry events and offers our members opportunities to present at the events that are held in North America and throughout the world. CompTEL/ASCENT, Internet Telephony, and CommuicAsia2005 are just a few of the well attended conferences the IPCC has provided its leading industry perspective to. Our [Byline and Speakers Bureaus](#) provide a unique benefit that can help position you and your company as a leader in our industry. To register with these bureaus, please go to the "Member Services" tab on the [IPCC web site](#).

Now at the beginning of a new year, we want to invite our members to participate in our technical Working Groups as they strive to convert standards and technologies into revenue generating services. Your company's bio will be included as part of any IPCC Technology Architectures document. We continue to work to simplify reference architectures, interconnectivity rules, and service management systems to meet real life service deployment requirements. Your input is key. Please keep up the good work!

Best regards,

Michael Khalilian
Chairman and President
International Packet Communications Consortium IPCC
"The Industry VoIP Forum - Making It Happen!"
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EDUCATIONAL NOTE

Making Seamless Roaming Between WLANs and 3G Networks a Reality

WLAN offerings have gone through an evolution in which first-generation products (Access Point solutions based on the “fat” AP model, where the intelligence lies in each AP) were replaced by second-generation solutions (a centralized intelligence that resides in the “switch” with “thin” APs). The rationale for this change in architecture was the centralization of the network management function which is responsible for tasks such as compensation for failing APs, surveillance of possible rogue access points, load balancing of the traffic between AP, authentication, and encryption. Another benefit of this centralization allows these functions at the switch to translate into cost savings for enterprises deploying large, ubiquitous WLANs.

DID YOU KNOW?

Avaya, Proxim, and Motorola jointly announced in July 2004 that their Converged Mobility Solution will allow a dual mode handset to roam between 802.11 and 2.5G or 3G networks.

The next evolutionary step is seamless roaming, available in third-generation WLAN products that are becoming increasingly attractive to mobile operators willing to encapsulate WiFi into their cellular networks. Enterprises are also attracted by the prospects of the ABC (Always Best Connected) model in which employee phone calls can be seamlessly handed over from the public mobile network to an enterprise WLAN. By selecting the lowest cost available alternative, companies can realize OPEX savings while increasing the probability of intra- and extra-office communication.

The idea of being able to use a dual mode handset and roam between 802.11 (WLAN) and 2.5G or 3G networks took a giant leap forward when Avaya, Proxim, and Motorola jointly announced in July of 2004 that their new platform would allow enterprise users to access wireless service either via their corporate WLAN or the cellular network.


Going by the name *Converged Mobility Solution*, this platform entails an IP PBX from Avaya, access points (APs) from Proxim, and a call manager gateway and dual mode handsets from Motorola. These phones (the Motorola CN620 Dual-Network Mobile Office Device - MOD) support VoIP connections when in range of a corporate WLAN (or presumably some WiFi hot-spot in the future), and GSM cellular connections whenever an 802.11 network is not detected. The MOD can switch from wireless to the 802.11 network when it is available, as well as hand-off calls from the WLAN to the GSM network when the end-user is no longer in range.

The next evolutionary step in WLAN offerings is seamless roaming, available in third-generation WLAN products that are becoming increasingly attractive to mobile operators willing to encapsulate WiFi into the carrier cellular networks.

What will that eventually mean for mobile operators? A wireless carrier could form a relationship with these vendors and then offer a bundle that would consist of X minutes worth of calls on their GSM network (or CDMA 2.5G/3G variant) coupled with Y minutes worth of calls on their WiFi networks. Hence, a user could take his dual mode handset and use it for free within his enterprise, while incurring one rate when on the wireless network, and another type of charge when within range of a publicly available WiFi hotspot.

Another SP strategy is to improve the existing cellular service. In October 2004, Chris Rice, the CTO of SBC, claimed that the carrier’s public WiFi hotspots would be used to carry calls from Cingular users by 2006. The aim is to improve Cingular’s cellular coverage by filling in the gaps, relying on WiFi hotspots in places like restaurants, hotel lobbies, and coffee houses to mitigate some of the spectrum demands on the wireless operator.

However, some details still need to be worked out. The systems that can support the 3G/WLAN seamless roaming entail special client equipment and only work with APs that support newer technology (e.g., 802.11e, which is the QoS standard that also enables longer battery life thanks to its “deep sleep feature”). This means that older APs that already have been deployed will need an upgrade. Nevertheless, it will be interesting to see the seamless roaming strategy that other wireless carriers will adopt in the future. While some observers believe the 3G/802.11 integration will potentially cannibalize 3G revenues, the carriers that adopt this strategy will be ahead of the competition and may achieve higher subscriber stickiness and trickle down data revenues. A dual mode Blackberry offering will cost less on a per minute basis than an exclusively 3G RIM device, but the average MOU (minutes of use) will be significantly higher.

F R O S T  S U L L I V A N *This article was contributed by Ronald F. Gruia, Program Leader, Enterprise Communications Solutions, Frost & Sullivan.*

SERVICE PROVIDER DEPLOYMENT & MEMBER NEWS

Click links below for news on these companies
(Numbers in parenthesis indicate multiple articles regarding that company)

AcmePacket	Airespace	Bell Canada	Cbeyond (1) (2)	Cisco	Comcast
Convedia	Covad	eLEC Communications	Frost & Sullivan	Global Crossing	InfiniRoute
Koc.net	Level 3	Net2Phone	NexTone	PointOne	Qwest
Softbank BB	Tekelec	UTStarcom	Vonage (1) (2)	Yahoo! BB	

100% VoIP Local Telephone Carrier, Cbeyond, Processes 1 Billionth VoIP Minute



[Cbeyond Communications](#) installed its 10,000th small business customer on New Year’s Eve, and processed its one billionth minute of VoIP calls since its local exchange network went live in early 2001. Cbeyond offers local and long distance voice services and high-speed T-1 Internet access, generally for less than most small businesses pay for voice services alone. And it gets delivered by a company whose service packages and processes were built specifically for this growing and under-served small business market. Atlanta, Georgia-based residential mortgage firm PFM Mortgage Services was the 10,000th install.

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Softbank BB Adopts Cisco's Catalyst 6500 for NGN Broadband Content and Services Through Yahoo! BB

SOFTBANK BB



[Softbank BB Corporation](#) has implemented Cisco Catalyst® 6500 intelligent multilayer modular switches to support the deployment of new services in Japan offered under the “[Yahoo! BB](#)” brand name. This follows an earlier announcement in December 2004 that Softbank BB will deploy the Cisco CRS-1 Carrier Routing System into its backbone. Softbank BB is one of Japan's largest broadband service providers with more than 4.6 million subscribers. Under the Yahoo! BB brand, it offers such services as Internet connectivity, IP telephony, public wireless LAN services, video-on-demand, and online gaming.

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Frost & Sullivan, Internet Telephony Honor Convedia



FROST & SULLIVAN

[Frost & Sullivan](#) awarded [Convedia](#) with its 2005 VoIP Equipment & Network Infrastructure Company of the Year Award. This honor is bestowed annually on the company which has exhibited unparalleled excellence in business development, marketing, competitive strategy, and industry leadership. Convedia also received the [Internet Telephony](#)® Magazine 2004 Product of the Year Award for the ongoing leadership and outstanding innovation of its IP Media Servers.

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Tier-one Operators Deploy Tekelec UMTS Wireless Multimedia Gateways, Enabling Seamless 3G Migration



Tier-one mobile operators in North America and Asia are deploying the [Tekelec](#) 8000 Wireless Multimedia Gateway (MG) with Universal Mobile Telecommunications Service (UMTS) capabilities. These customers will leverage Tekelec's product architecture and flexibility to increase network capacity while seamlessly migrating to third-generation (3G) networks. The Tekelec 8000 is based on 3rd Generation Partnership Program (3GPP) Release 4 standards for Global System for Mobile Communications (GSM), UMTS, and Code Division Multiple Access (CDMA) networks.

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Turkey's Largest Enterprise-Focused Next Generation Carrier Selects Acme Packet's Net-Net Products for H.323 Peering



[Koc.net](#), Turkey's largest enterprise-focused managed services provider, has selected the Net-Net® session border controllers for peering its H.323 network with other service provider IP networks. The multiprotocol support with interworking functionality in the Net-Net products allows Koc.net to expand its service reach throughout Turkey and beyond, as interconnection with previously incompatible networks is now simple, secure, and cost-effective. [Acme Packet](#)'s session border controllers also prepare Koc.net for future offerings of high-quality IP communications services that generate additional revenue.

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Covad Completes Nationwide Rollout of Business VoIP



[Covad Communications](#) has completed the nationwide rollout of its business-class Covad VoIP service. It is now available in 125 major metropolitan markets across the U.S. Covad VoIP offers two services: Covad PBXi and Covad vPBX. Covad PBXi is designed to work seamlessly with existing PBX equipment.

Covad vPBX is designed as a full PBX alternative. Covad and its dealer network install the service, train users, and provide complete customer support. Covad also features a Dashboard user interface for managing local and long-distance services, visual fax and voice mail, Instant Messaging, audio and web conferencing, call logs, directory services, "Find me/Follow me," and other features.

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Qwest Expands Availability of Business VoIP Service



[Qwest Communications](#) has extended the geographic availability of its business VoIP service to include more than 100 cities across the U.S. Qwest initially launched OneFlex in August 2004. Qwest's VoIP offerings include OneFlex Integrated Access, which bundles voice and data services over a single Internet

connection that dynamically adjusts to accommodate their needs, OneFlex Hosted VoIP, and IP Centrex Prime (an IP-enabled interface that allows enterprise business customers with traditional Centrex services to migrate from their existing PBX connections to VoIP).

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Bell Canada Cites Progress in Move to Next Gen Services



In a recent annual Business Review Conference, [Bell Canada](#) said it is making significant progress in migrating to next generation services. Currently 60% of Bell Canada's revenues come from its legacy services such as local and long distance, while 40% come from new, high growth services such as wireless, video, high-speed Internet, IP, and value-added services. By the end of 2006, Bell expects the ratio to

shift with about 45% of revenue coming from legacy services and the other 55% coming from new services. Today, Bell adds approximately \$1.50 in new service revenue for every \$1 decline in revenue from legacy services. By late 2006, the company expects to generate \$2.50 in new service revenue for every \$1 decline in legacy revenue.

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Level 3 Extends its E-911 VoIP Capability



[Level 3 Communications](#) has extended its E-911 enabled VoIP service to areas encompassing approximately 60 million households across the U.S. E-911 (Enhanced 911) delivers address

specific information to public safety agencies whenever someone makes a 911 call, enabling first responders to be dispatched to the scene of an emergency even if the caller is unable to speak or if the call is suddenly disconnected. Level 3 said that over the course of the past year it has deployed its E-911 VoIP solution in more than 300 markets across the country and plans to expand its E-911 coverage further throughout 2005. Specifically, Level 3 is interconnecting with 911 Tandems and establishing dedicated connections from its network to PSTN switches that serve Public Safety Answering Points (PSAPs) in over 1,500 rate centers around the country.

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UTStarcom's SIP-Enabled Wi-Fi Handset Extends Vonage VoIP



[UTStarcom](#) introduced a SIP-enabled handset for the U.S. market that will be offered through a partnership with [Vonage](#). The Wi-Fi handset enables VoIP customers to make calls from anywhere there is a Wi-Fi hot spot. It combines the features and functionality of a VoIP terminal adapter along with a standard cordless telephone. The F1000 handset has a standby time of up to 80 hours and talk time of three to four hours. UTStarcom said it has received U.S. regulatory approval for the device. Service providers could use the F1000 handset to offer high-value features, such as three-way calling, call waiting,

call transfer, and others based on the capabilities of their call servers. The F1000 also enables voice processes that include comfort noise generation, voice activity detection, and echo cancellation, as well as IP protocol features like Real-Time Transfer Protocol (RTP), Session Description Protocol, Dynamic Host Configuration Protocol (DHCP), and Point-to-Point over Ethernet (PPoE) authentication.

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PointOne Expands Reach of VoIP Network in Canada



[PointOne](#) has expanded the reach of its VoIP network to now reach 80% of both the Canadian and United States populations. PointOne noted that it is now processing more than half a billion calls monthly for traditional service providers over its IP network.

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Vonage Reports 400,000 VoIP Lines



[Vonage](#) has activated its 400,000th customer VoIP line, doubling its subscriber base in less than six months since reaching the 200,000-line mark. The company ended 2004 with more than 390,000 lines in service having added 115,000 lines in Q4 2004 alone.

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Comcast Accelerates VoIP Rollout



[Comcast](#) plans to market an Internet-based phone service to 15 million homes by the end of 2005 and to practically all 40 million of the households that have access to its systems within 18 months. The company hopes to have eight million phone subscribers within five years, or 20% of the homes its cable lines pass by. In 2004

Comcast had a record Q3 when it added over 549,000 high-speed Internet customers - the highest number ever for any broadband ISP.

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eLEC's VoX Begins Offering VoIP Services Nationwide



VoX Communications, a subsidiary of [eLEC Communications Corp.](#), is now offering local and long-distance residential and business VoIP service nationwide. eLEC recently joined the IPCC.

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InfiniRoute Launches VoIP Peering Service for Wireless Carriers



[InfiniRoute Networks](#) began offering a VoIP peering service for Wireless Carriers. The company, which has been offering a carrier-neutral Managed VoIP Peering (MVP) service since last year, now provides mobile carriers with the ability to terminate and receive international traffic using VoIP.

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SIP Center Offers Technical and Market Resources



The [SIP Center](#) is a public resource for the commercial development of SIP (Session Initiation Protocol) serving both the SIP developer community as well as the wider industry since July of 2000. The SIP Center offers technical and market resources as well as a 24 x 7 public SIP proxy for testing SIP implementations. There are free

SIP User Agent downloads, a comprehensive products and services directory, the latest SIP news, special interest articles, tutorials, whitepapers, developers tools, and many other resources. Whether you are new to SIP and would like to find out more about it, or if you are looking for specific tools or resources, you can visit the SIP Center at www.sipcenter.com.

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WALL STREET PERSPECTIVE

Global Crossing Completes \$404 Million Secured Debt Financing



[Global Crossing](#) announced the completion of debt financing. The approximately \$404 million financing consists of \$200 million of 10.75% U.S. dollar denominated senior secured notes due in 2014, and 105 million pounds of 11.75% British pounds sterling denominated senior secured

notes due in 2014. The notes were sold at a discount resulting in aggregate gross proceeds of approximately \$398 million (currency equivalent) before underwriting discounts.

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Cbeyond Communications Closes Series C Preferred Stock Investment



[Cbeyond Communications](#) closed on its Series C Preferred Stock investment on December 29, 2004. The amount of proceeds raised was \$17 million, with \$10 million coming from existing investors and \$7 million from new investors.

Cbeyond's largest shareholders include Madison Dearborn Capital Partners, Battery Ventures, and Vantage Point Venture Partners, all of whom participated in the Series C round. New investors in the round were Black Diamond Capital and Ballast Point Venture Partners. Proceeds from the offering will be used to support Cbeyond's expansion into additional cities.

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NexTone Hits Record Numbers for Q4 2004, Extending the Company's Dominance in the Session Management Market



[NexTone™ Communications](#) announced a banner quarter for Q4 2004. The company added 27 new carrier customers worldwide, and added new sales offices in Moscow and Sydney to support corporate growth and the explosive demand for VoIP services. NexTone's sales increased by more than 260%

over Q4 2003, significantly exceeding company projections. In addition to record sales, NexTone also surpassed a major company milestone by doubling its customer base in 2004, for a total of more than 200 carrier deployments in production and generating revenue.

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Cisco Systems to Acquire Airespace



[Cisco](#) announced a definitive agreement to acquire privately-held [Airespace, Inc.](#) of San Jose, CA. Airespace is a provider of wireless local area networking (WLAN) systems that feature a secure, flexible, and cost effective solution for enterprise and commercial customers. Airespace's product portfolio will expand Cisco's WLAN solution portfolio, accelerating delivery of key WLAN features and capabilities for Cisco's entire customer base. Airespace's product portfolio includes WLAN controllers, access points, WLAN Management and Location Software, and security capabilities, including IDS. The acquisition will allow Cisco to address

a broader set of market segments and integrate advanced capabilities into current Cisco products. The Wall Street Journal reported that the deal is valued at \$450 million.

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Net2Phone Reports 1st Quarter Fiscal 2005 Results



[Net2Phone Inc.](#) announced results for the first quarter of fiscal 2005 ended October 31, 2004. Financial highlights for the quarter and recent achievements include:

- Multi-year contracts with five cable operators covering markets of more than 1.3 million homes. This brings the total homes under contract to more than 1.9 million homes
- More than 10,500 VoiceLine and PacketCable telephony subscribers as of October 31, 2004
- Continued segment income generated by NGS
- Gross margins above 40% for the 14th consecutive quarter
- Strong balance sheet with \$125.8 million in cash and marketable securities as of October 31, 2004 (including restricted cash of \$21.3 million)

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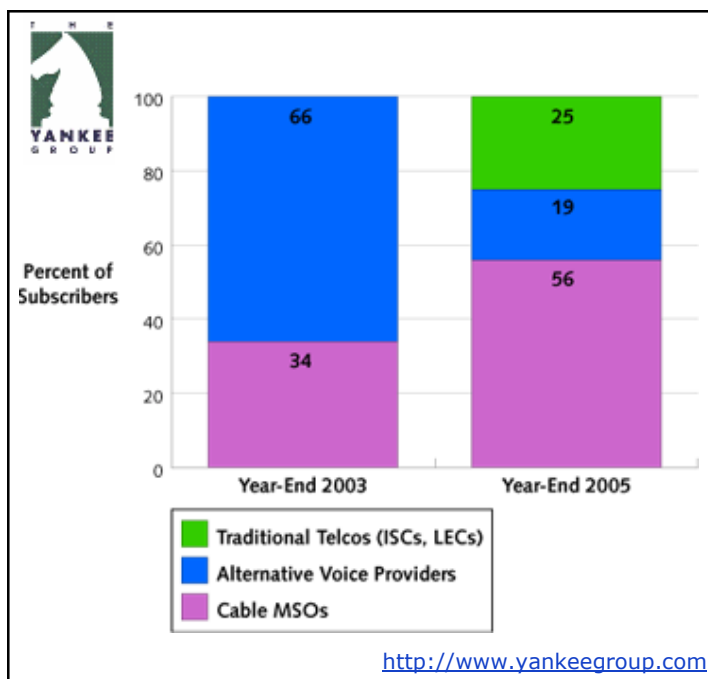
MARKET RESEARCH CORNER

Yankee Group: Fighting Goliath - Can Alternative VoIP Providers Survive?

Local VoIP providers can be broadly grouped into three categories: cable MSOs, major players (IXCs and RBOCs), and alternative VoIP providers. Alternative VoIP providers include the nontraditional players that are entering the telephony market with a bring-your-own-broadband strategy. In 2005 small upstarts in the last category will be facing up to the broadband VoIP offerings of communications market leaders such as AT&T, Verizon, Comcast, and Time Warner. Can they survive? In this report, the Yankee Group examines the competitive market to determine whether or not there is a viable long-term role for alternative VoIP providers as the local VoIP market matures.

According to this August 2004 report, alternative VoIP providers such as Vonage and many of the Vonage-like providers have a first-to-market advantage. In 2003, a number of these companies, dominated by Vonage, introduced VoIP phone service to consumers. At the end of 2003, these small startups comprised nearly 66% of the local residential VoIP market. Vonage dominated the market with more than 90% of all the subscribers in the alternative VoIP provider segment, or 61% of the local residential VoIP market.

According to the Yankee Group, alternative VoIP providers lose market share every day to the major players. MSOs, IXCs, and ILECs are joining the VoIP game, and their available resources dwarf even the largest of



the alternative VoIP providers. The local VoIP market is already crowded with more than a dozen players vying for local consumers. As major players accelerate their rollout strategies, alternative VoIP providers will feel increasingly squeezed and pricing pressure will intensify. The Yankee Group expects the alternative VoIP providers to lose 47% market share to the MSOs and IXCs/ILECs by the end of 2005 (see graph to the left).

Delivering primary-line voice service is a very resource intensive effort. The MSOs are bringing VoIP to the mass market as a primary-line replacement. Incumbent local providers look to VoIP as a long term network development strategy. Regardless of interim activity, VoIP is part of their future. So, where will the little guys fit? Are these providers struggling to build a market that will soon leave them behind?

Roffe Matrix Compares Features Among Top Broadband Providers

Please visit <http://www.roffe.net/voip/> for an extensive comparison of VoIP features offered by the following broadband voice service providers:

- VoicePulse
- Packet 8
- BroadVox
- Vonage
- VoiceWing (Verizon)
- CallVantage (AT&T)
- VoiceGlo

REGULATORY & LEGISLATIVE UPDATE

FCC ACTIONS

FCC Adopts Unbundling Remand Order

On December 15, 2004, the FCC issued a Public Notice announcing that it modified the unbundling obligations for ILECs. The Commission modified the standard pursuant to which ILECs must make their facilities available to other carriers, establishing a new test for unbundled loops and dedicated transport that varies based on the capacity of the loop and dedicated transport at issue. The order should be released sometime in January and will be effective thirty days after publication in the Federal Register.

FCC Notifies NTIA of Planned Auction for 3G Wireless Services

On December 29, 2004, the Commission issued a Public Notice announcing that it had notified the National Telecommunications and Information Administration (NTIA) that it intends to auction licenses for certain advanced wireless services or “3G” services.

FCC Issues Public Notices Establishing Comment Cycles for Several BOC Petitions for Forbearance from Certain Title II Obligations

- **BellSouth’s Petition for Forbearance:** On November 3, 2004, the Commission issued a Public Notice seeking comment on BellSouth’s petition for forbearance from Title II common carriage requirements that apply to ILEC broadband transmission and the *Computer Inquiry* requirements. (Comments were due December 20, 2004. Reply comments *now* due January 28, 2005.)
- **Qwest’s Petition for Forbearance:** On November 16, 2004, the Commission released a Public Notice establishing the pleading cycle for Qwest’s Petition for Forbearance from Dominant Carrier Obligations for xDSL Services. (Comments due January 5, 2005. Reply comments due February 7, 2005.)
- **Verizon’s Petition for Forbearance:** On December 23, 2004, the Commission issued a Public Notice seeking comment on Verizon’s petition for forbearance from applying the Title II and the Computer Inquiry rules to any broadband service offered by Verizon. (Comments due February 8, 2005. Reply comments due March 10, 2005.)

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STATE ACTIONS

California PUC Appealed FCC Declaratory Ruling regarding Vonage’s VoIP

On December 22, 2004, the California PUC filed a petition for review of the FCC’s November 12, 2004 Order that preempted an order of the Minnesota PUC. The California PUC’s petition for review was filed in the 9th Circuit.

CONGRESSIONAL ACTIVITIES

The Congressional Internet Caucus announced it would hold a full-day conference looking at the key policy issues facing the 109th Congress on February 9, 2005. The conference will culminate in the 8th Annual Internet Caucus Kickoff Reception and Tech Fair. Please contact Danielle Yates at dyates@netcaucus.org or 202-638-4370 for more information.

POINTONE *This monthly column is contributed by Staci Pies; IPCC Government and Regulatory Group Chair, and Vice President, Governmental & Regulatory Affairs, PointOne. Contact Ms. Pies at spies@pointone.com.*

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IPCC Industry Newsletter

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IPCC MEMBERSHIP & MARKETING ACTIVITIES

DON'T MISS IPCC PANEL SESSIONS AT THE COMPTEL/ASCENT SHOW IN NEW ORLEANS, FEBRUARY 14-17

<u>WEDNESDAY, FEBRUARY 16</u>	
8:30 a.m. - 9:30 a.m.	Session Border Controllers – <i>Hosted by the IPCC</i>
9:45 a.m. - 10:45 a.m.	Service Creation, Advanced VoIP, and Packet Services – <i>Hosted by the IPCC</i>
11:00 a.m. - 12:00 p.m.	End-points in Residential and Enterprise VoIP – <i>Hosted by the IPCC</i>

IPCC CHAIRS SESSION AT COMMUNICASIA

The IPCC is hosting a two day session at CommunicAsia, February 14 - 17, 2005, to be chaired by Eric Burger, CTO Next Generation Technologies, Brooktrout, and Board Member of the IPCC on real-time multi-media technologies and business issues. Several IPCC members will join Eric in presenting at this session.

The IPCC is working on our participation at the following shows throughout the end of the year - NCTA, Supercomm, USTA, CTIA and others. Please contact [Debbie Hetland](#) for more information on how you can participate along with the IPCC at these shows.

THE IPCC CHAIRS INTERNET TELEPHONY SESSIONS INTERNET TELEPHONY EXPO, FEBRUARY 22-25, 2005 IN MIAMI, FL

Wednesday, Feb. 23	11:15 a.m. - 12:00 p.m.	Decisions, Decisions - To Build or To Buy?,
	2:00 p.m. - 4:00 p.m.	IP and Off shoring: Options & Opportunities
Thursday, Feb. 24	4:00 p.m. - 4:45 p.m.	What's the Deal With E-911? - Panel Discussion

DON'T MISS THE NEXT WAVE IN PACKET COMMUNICATIONS: JOIN THE IPCC'S NEW FIXED MOBILE CONVERGENCE WORKING GROUP

As you read in [this month's Chairman's Note](#), we have started a new Fixed Mobile Convergence Working Group. This new Working Group will focus on defining reference architectures for an access agnostic network that will provide feature transparency and seamless mobility across wireline broadband (DSL, Fiber, and Cable) and wireless media (2.5G, 3G, WiFi, and WiMAX). Its work will include mobile handover between 2G/3G and WiFi/WiMAX, and IP Multimedia Subsystem (IMS) within 3GPP. It will investigate other areas where efficiencies may be achieved in operations and capital costs. This Working Group will also liaise with the appropriate standards bodies such as ANSI, ETSI, IETF, 3GPP, and the DSL and WiMAX Forums to expedite the proposed reference architecture. To learn more about this Working Group, register online under the [Members Services](#) section of the IPCC web site or contact [Debbie Hetland](#).

RAISE YOUR PROFILE - PARTICIPE IN THE IPCC SPEAKERS & BYLINES BUREAUS

The IPCC speakers bureau sponsors members to present at high profile conferences worldwide. If you are an IPCC member, you are welcome to register for our Speakers & Bylines Bureau. In order to be considered for one of our high profile speaking spots, visit the [IPCC website](#) and fill out a brief form to register yourself with the speaker's bureau. The form is found under the "Membership Services" tab on the home page.

To submit a byline in an industry leading publication on behalf of the IPCC, or to write an Educational Note for this newsletter, please contact [Cathy Clarke](#).