

events BUILDING IT COMMUNITIES ONE EVENT AT A TIME "Absolutely relevant, insightful and a rare opportunity to interact with peers and Ziff Davis Enterprise editors. Thank you!" ATTEND AN EVENT TODAY!

smarter technology Five Apps That Will Make 2010 the Year of the Gyroscope. click here >>

Home > VOIP and Telephony > Page 3 - While I Was Out

NEW WHITE PAPERS SPONSORED CONTENT

- Enterprise Strategy Group: Addressing Web Threats
Web Security Report 2009
Protecting Against The Wave Of Web Threats
See All Resources >

VOIP and Telephony

While I Was Out

By: Ellen Muraskin 2004-06-14 Article Rating: 5/0 Share This Article

Share

There are 0 user comments on this VOIP and Telephony story.

Table of Contents:

- 1. While I Was Out
2. 'Mushrooming'
3. 'Bypass Roads'

Opinion: Why, after years of drought, has it started to rain VOIP providers?

While I Was Out - 'Bypass Roads' (Page 3 of 3)

But the biggest concentration of news, in the short time since I've been gone, has to do with making the RBOCs lock on the local loop irrelevant; in other words, driving voice competition that divorces the telcos entirely.

Easiest to understand in this connection is cable, whose share of the residential broadband marketplace is booming. Lurking in the wings is fixed wireless, which transmits between neighborhood base stations and indoor or outdoor transceivers and also circumvents the telco. Thats all about physical access.

Another step on the road to PSTN irrelevance is VOIP-carrier-to-VOIP-carrier interworking. "Cable operators want a call that starts at Comcast and goes to Cox-all IP," says my SIP guru.

If conversations can hop from one IP carrier to the next, and from an enterprises own IP PBX to IP carrier, without having to gateway out to a PSTN and back in again, we achieve VOIP end-to-end. The PSTN is cut out entirely. Thats why you now see many interop announcements between carriers, such as Level3, and CPE vendors, such as Nortel, Avaya and Cisco.

Its also why theres more noise around a new class of beasts called session border controllers, which transcode between SIP, MGCP and H.323 VOIP protocols and variations thereof, and also negotiate problems of firewall transversal.

Obstacles on this bypass road certainly exist. One is E911 (Enhanced 911) compliance: If you typed "911" in your instant-messaging window, how would anyone know where you actually were? And where would that message go?

Since Internet telephony addresses are similarly placeless, mechanisms have to be employed—and several are—that automatically route distress calls to the proper emergency response center.

Click here to read about Siemens plan to launch a next-generation IP PBX.

Another obstacle is presented by FBI rules that require federal wiretapping ability—a hard nut to crack in a stream of data packets. Yet another is assuring universal-service subsidies to less populated regions that present less economic incentive to network buildout.

Finally, theres the problem of taking a traditional phone number and making it work like an IP address. Say your traditional phone number is on your business card, but most of your world can now reach your phone over IP.

A protocol called ENUM, the result of work of the Internet Engineering Task Forces Telephone Number Mapping Working Group, deals with a standard way of converting that number into an IP address, so that VOIP networks can route

Rate This Article: Poor Best Rate
E-mail PDF Version Print

Suggested Related Content:

- Articles Labs/How-To Multimedia
Sign up for the Editor's Pick newsletter for hand selected articles from the editors of eWEEK. (Sponsor)
1: ew Whaleback Offers Managed IP Telephony Platform (2010-09-30)
2: ew Aastra Connector Offers Telephony Call Control (2010-10-04)
3: ew Android Smartphones Get VOIP Apps from Fring, CounterPath (2010-10-06)
4: [ci] Hosted VOIP Isn't Always Up to the Job (2004-12-13)
5: [ci] Florida Town Rises from Hurricane Wreckage with VOIP Triple-Play (2004-09-04)
6: [ci] VOIP to Make Mainstream Move at CES (2005-01-03)
7: [c] Understanding How to Use and Adopt IP Telephony (2004-10-01)

smarter technology Take your company's business and IT operations to the next level with Smarter Technology Solution Centers. Click Here >> sponsored by IBM ZIFF DAVIS ENTERPRISE enterprise

eWEEK Editorial Calendar For a list of what eWEEK is covering this year, visit our editorial calendar.

Stop Searching. Start Finding. Your Choice! TechDirect Product Reviews Research Quotes Videos Compare Products Now!

eWeek Videos NewsBreak Videos All Videos Featured Video: eWEEK Deeper Thinking Security Security: The Increased Sophistication of Today's Attacks. Newest Videos: eWEEK NEWSBREAK



TCO Networking, Floor Space, Power, and Cooling Costs

This calculator shows the cost of adding additional servers, including networking, floor space, power and lighting, and cooling costs. It assumes a cost of \$500 per 24 port switch, and \$50 for cabling per server and energy costs of \$.1/Kw.

Number of Servers:

Server wattage (in watts per server):

Purchase Price:

Cost Per Square Foot:

Server Room Size (in square feet):

Cooling Type:

Total cost (one year):

Total cost (three years):

Calculate

Get another IT calculator
Microscopic Antennas for ...
IBM Probes Atomic ...
Are Plug-and-Play Solar ...
Nanosprings Could Enable ...
Computer Predicts Rice ...



or converting that number into an IP address, so that VOIP networks can route calls independently of the routing tables and SS7 signaling used by telcos.

ENUM is to work with domain name servers, in the same way that URLs get resolved down to physical addresses.

So here, after a few months absence, are the very broad strokes of the VOIP landscape on the service provider side. Columns to follow should take up some of these developments and players in turn.

Check out eWEEK.coms VOIP & Telephony Center at http://voip.eweek.com for the latest news, views and analysis on voice over IP and telephony.



Reader Comments: While I Was Out

>>> Be the FIRST to comment on this article!

>>> More VOIP and Telephony Articles

>>> More By Ellen Muraskin

Email Article To Friend ♦ Print Version Of Article ♦ PDF Version Of Article

FEATURED SPONSORED VIDEOS

eWEEK Deeper Thinking The Cloud

eWEEK Deeper Thinking Security

Using SMS to Power Business Owners in India

The Future of Search in the Enterprise

The Impact of Technology on Customer Service

Brought to You By



FEATURED SMARTER TECHNOLOGY ARTICLES

Five New Technologies That Will Change Enterprise Computing

Swarming Robots Autonomously Absorb Hard-to-Reach Oil

NASA to Send Craft to the Sun

10 Information Technology Projects for 2010

Brought to You By



sponsored by IBM: enterprise

ADVERTISEMENT

Sponsors

- EMC unified storage is 20% more efficient. Guaranteed.
New Technologies That Will Change Enterprise Computing
Use Any Phone For Two-Factor Authentication - Free Whitepaper
FREE Computer Scan - Scan up to 200 computers for viruses, spyware, Rootkits and other threats.
Take away your email security burden with MessageLabs
Streamline Secure Data Transfer
Build better software, faster. Try JIRA
HP LaserJet MFP. Calculate your payback.

Ads by Google

iPhone News

VoIP Phone

VoIP Tel

eWEEK Editor's Pick Newsletter
Sign-up to get hand selected articles from the editors of eWEEK delivered to your inbox daily.
SIGN-UP TODAY >>>
eWEEK Editor's Pick
HP Rolls Out New ProBook Laptops, EliteBook Tablet

Your Local IT Experts - Delivered Free!
Here are your local specialists:

In Your Area Var? Get listed!
Your Zip Code: 07950 GO
Need help with something voip and telephony related? Check out these VARs within 100 miles of your area:
United Telecomp, LLC. View Website
Niyazi Nuredin Totowa, NJ View Website
PTY Inc View Website
Jen Smith Newark, NJ View Website
Safe Haven Computers View Website
Frank Senkewicz Raritan, NJ View Website
Simpletek Consulting Inc View Website



eWEEK RSS FEEDS and NEWSLETTERS


- XML Get eWEEK news delivered to your desktop with RSS
eWEEK Free Newsletters

SUBSCRIBE

APPLY FOR A FREE SUBSCRIPTION BELOW:

First Name: Last Name:
Title: Company:
Address: City:
State: Zip Code:





Email:

**SUBSCRIBE**

- > Try digital eWEEK
- > Renew today
- > Subscription help
- > **MORE FREE SUBSCRIPTIONS**

MARKETPLACE (Sponsored Links)

**[Internet Explorer 9: Watch the Demo Now](#)**  
 Learn More About IE9's High Speed and New Features!  
[BeautyOfTheWeb.com](#)

**[Free Network Computer Security Scan](#)**  
 Find Uncontrolled Applications and Devices & Get A Comprehensive Report!  
[www.sophos.com](#)

**[SIP Trunk Services Report 2010](#)**  
 Learn how SIP works, migration options & tips on choosing a service provider  
[www.xo.com/SIPTrunkReport](#)

*Buy a Link Now*

Ads by Google

## Optimum Voice®

From \$19.95/mo for Unlimited Calls. Optimum Phone Service 866-907-0403

[www.Optimum.com](http://www.Optimum.com)

[Issue Index](#) | [Contact Us](#) | [About](#) | [Advertise](#) | [Magazine Customer Service](#) | [Site Map](#)

**eWEEK QUICK LINKS**

**Security:**

- Enterprise Networking
- Network Security
- Infrastructure Security
- How To: Data
- IT Security News
- Security Watch Blog
- Secure Channel Blog

**Storage:**

- Data Storage
- Cloud Storage
- Storage Virtualization
- Network Access Storage
- Storage Reviews
- Storage News
- How To: Storage
- Storage Station Blog

**Computing:**

- Apple OSX
- Linux Systems
- Windows 7
- Managed Print Services
- Computer Reviews
- Microsoft Watch Blog
- Apple Watch Blog
- Google Watch Blog

**Communications:**

- Enterprise Mobility Zone
- VoIP Solutions
- Wireless Technology
- Messaging Software
- Web Services
- Wireless News
- Mobile Reviews

**Apps & Development:**

- Application Development
- Enterprise Apps
- Search Engines
- Database Software
- Web 2.0
- IT Project Management
- Emerging Tech Blog
- CIO Insight Blogs
- CIOs



**Vertical Markets:**

- Federal Government IT
- Health Care IT
- Finance IT
- Mid-Market
- Channel and VARs
- Careers Blog
- Value Added Resellers

**More eWeek Links:**

- Green Computing Center
- Tech Knowledge Center
- Tech Newsletters
- Tech RSS Feeds
- White Papers
- Tech Podcasts
- Tech Videos
- Magazine Subscriptions

**Enterprise Websites:**

- ZDE Home
- eWeek
- Baseline Magazine
- Channel Insider
- CIO Insight
- eSeminars and Events
- Publish Online
- Web Buyers Guide

**Developer Websites:**

- DevSource C# and .Net
- Dev Shed
- DeveloperShed
- ASP Free
- SEO Chat
- Codewalkers
- Tutorialized
- Scripts.com
- Dev Mechanic
- Dev Articles
- Web Hosters
- Dev Hardware

**Technology Websites:**

- Device Forge
- Desktop Linux
- Linux Devices
- Windows for Devices
- PDF Zone
- Linux Watch
- TechDirect
- Windows Migration
- Smarter Technology
- Enterprise TechBrief

Use of this site is governed by our [Terms of Use](#) and [Privacy Policy](#)  
 Copyright ©1996-2010 **Ziff Davis Enterprise Holdings Inc.** All Rights Reserved. eWEEK and Spencer F. Katt are trademarks of Ziff Davis Enterprise Holdings, Inc. Reproduction in whole or in part in any form or medium without express written permission of Ziff Davis Enterprise Inc. is prohibited.  
 eWeek is your best source for the latest [Technology News](#).  
 ZDE Cluster 3