

3rd Annual

 **VoIP**

  **DEVELOPER CONFERENCE™**

***A World-Class Conference
on IP Communications
with World-Class Speakers***

August 8-10, 2006

***Santa Clara, California
Hyatt Regency Santa Clara***

The World's Only IP Communications Developer Event!

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Hardware Development
Software Development
Wireless/WiFi Development
SIP Development Workshop
Open Source
Security

For:

Developers Manufacturers
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IMS
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- SIP
- DSPs
- Security
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The World's Only Conference on IP Communications Development!

Dear Colleague,

The growth and progression of VoIP and IP communications markets over the past 24 months is creating an amazing opportunity for companies and individuals building applications for broadband telephony networks.

If 2004 was the year when VoIP captured attention as a reliable alternative to circuit-switched phone service; and if 2005 was the year when deployments – both among consumers and businesses – began capturing serious market share; then 2006 is clearly the year when new applications will drive fence-sitting enterprises to choose VoIP over traditional telecom.

As deployments increase, service providers are in a race to offer the most attractive services. They need to develop partnerships now with developers who can help them add the most compelling services to their networks.

If you have any intention of seizing what is undoubtedly the most promising technology opportunity of the past several decades, then I encourage you to attend the **VoIP Developer Conference**, August 8-10, 2006 at the Hyatt Regency Hotel in Santa Clara, California.

This 3rd Annual **VoIP Developer Conference** is the only chance you'll have this year to learn in a focused environment how to quickly develop new VoIP applications that are in high demand.

Why should you attend the VoIP Developer Conference?

- **To Learn** how to leverage today's development tools.
- **To Discover** what you need to know about today's hottest technologies: SIP, IMS, Open Source, WiFi telephony, DSP development, Presence, Peer-to-Peer, Linux telephony, consumer VoIP devices, and more.
- **To See** hands-on demos and compare products from industry leaders like Avaya, Intel, Aculab, Texas Instruments, Sangoma, AudioCodes, and more!
- **To Form Valuable Partnerships** with OEMs, service providers, and your peers in the development community.
- **To Become One of the First** to develop new applications using IMS, perhaps the most promising aspect of the VoIP explosion.
- **To Acquire Tools for Development in the Entire Spectrum of VoIP Products:** video over IP, SIP, cable telephony, open source, IMS, wireless/WiFi telephony, software development, and hardware/device development.

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Welcome to the 3rd Annual VoIP Developer Conference™



In addition to the terrific educational sessions (see complete schedule on pages 6-7), the program for **VoIP Developer Conference** includes opportunities to see, test, compare, and select today's most exciting IP communications building blocks. You'll be able to see these components in action, and get answers to your questions about them:

1. Special Product Showcase Sessions

Day Two includes four concurrent Product Showcase sessions where individual vendors will have 20 minutes to explain how their building blocks will help bring your next application/product to market more quickly.

2. Exhibits

Throughout the event, you can visit the exhibit area where industry leaders will have their tools on display. There will be ample time to visit each vendor, ask questions, view demos, and gather the information you need to intelligently choose the correct tools.

Hosted by TMC, VoIP Industry Pioneers Since 1996

At TMC, we have been covering VoIP markets since 1996 through our *INTERNET TELEPHONY* and *Communications Solutions* magazines. This event's sister conference is *INTERNET TELEPHONY Conference & EXPO*, which we've been hosting since 1999 and has grown into the largest VoIP event in the world.

Many developers and vendors who have attended our *INTERNET TELEPHONY* events have told us that a focused developer's conference was a long time coming for the VoIP market. It is our pleasure to provide this opportunity for the development community to gather, learn, and network.

Please take a few minutes to review this brochure and the great conference program. I'm confident you'll decide that the value offered is worth your time and investment. In fact, your fee is guaranteed. I look forward to personally greeting you at the event.

Best Regards

Rich Tehrani, TMC President & Conference Chairman

P.S. There are special 'early-bird' savings available on your conference plan. You must register before June 30th to take advantage (see registration form on page 19).

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For more info contact Dave Rodriguez at 203.852.6800 ext. 146
or drodriguez@tmcnet.com.



What is ?

TMC's VoIP Developer Conference™ is the ONLY EVENT 100% focused on educating the pioneers building the next generation of IP-based communications products and services.

VoIP is clearly the world's most important communications technology right now. VoIP applications are revolutionizing the way businesses, consumers, and government agencies communicate on a daily basis. And the best part is, we are only at the beginning. The opportunities in IP telephony continue to multiply as VoIP applications permeate service provider networks, offices, mobile devices, and homes at an astounding rate.



Come Find the Building Blocks You Need to Change the Way the World Communicates

Communications has never been so open, so flexible, and so customizable. SIP and open source have emerged as leading protocols and platforms for VoIP application development.

Developers in the communications space need to attend the **VoIP Developer Conference™** to keep up with the evolving standards and protocols, and to understand how to use today's tools to build truly unique, highly sought-after VoIP applications.

The **VoIP Developer Conference™** is the only place where developers can see live demos of actual development tools of which they need to be aware. This event is the perfect forum to meet and network with like-minded developers and manufacturers building the future of telecommunications.

Why Attend



To Learn First Hand How to Take Today's IP Telephony Development Tools and Turn Them Into Feature-Rich, In-Demand VoIP Applications

- Understand how to best leverage the available VoIP development products on the market.
- Learn what you need to know about today's hottest technologies: SIP, IMS, Open Source, WiFi telephony, DSP development, Presence, Peer-to-Peer, Linux telephony, etc.
- See hands-on product demos from industry leaders* like Avaya, Aculab, AudioCodes, Texas Instruments, Sangoma, and more!
- Take advantage of unmatched networking opportunities with peers, OEMs, and service providers in the VoIP development community.

**Check www.voipdeveloper.com for latest exhibitor and speaker lists.*

What's In It For You?

1. Commercial-Free Conference Sessions Keep You Ahead of a Fast-Moving Market

At all TMC events, presenters in sessions are strictly forbidden from delivering company pitches or 'industry perspectives'. Any who do, are not invited back to future events.

This ensures you get an unbiased education about emerging trends and markets, like IMS, SIP, open source, new consumer electronics applications and devices, and other technologies creating huge development opportunities.

2. Most Knowledgeable Speakers

Each session topic and presenter is hand-selected by Greg Galitzine, editorial director of *INTERNET TELEPHONY* since 1998, and Rich Tehrani, president and editor-in-chief for TMC, from literally hundreds of submissions. Only the most relevant sessions presented by speakers they know deliver crucial information in an understandable manner make it on to the program at VoIP Developer Conference.

3. Top-Level Keynotes

Each keynoter has extensive experience – dating back to long before the VoIP revolution. Learn from them why this opportunity is far bigger than any in the telecom industry's century-long history.

4. Over 50 Exhibiting Companies

In between sessions, you can meet with vendors and partners you need to build successful VoIP applications. The program is designed to give you ample time to stop by each booth to discuss how each exhibitor's offerings can help you.

5. Invaluable Time With Other Developers

Since this is the only conference in 2006 focused solely on VoIP development, it is your only opportunity to meet and talk with other developers to share ideas, exchange business cards, and discuss the virtues of one vendor's development tools over another's.

6. Product Showcases

In addition to the non-commercial conference sessions, you can attend 'Product Showcases' where vendors are permitted to convey the specific benefits of their development tools. Each 20-minute demonstration explains why a specific product is your best choice when designing a specific application.

7. Your Conference Fee is Guaranteed

If you do not feel the sessions you attend made you better prepared to tackle your VoIP development project than you were when you arrived, stop by the registration counter at the show and we'll issue you a free pass for any future VoIP Developer or INTERNET TELEPHONY conference. *(No requests will be honored after the conference ends.)*

8. Perfect Venue to Compare Lucrative Developer Programs

Serious developers must come to this show to see what sorts of developer programs exhibitors are pushing and what incentives there are to develop on various platforms. This event is the perfect place to evaluate the tremendous opportunities available today.

9. Win the Race to Develop the Next Great Consumer Application

WiFi telephony and dual mode phones are becoming ubiquitous. Come gather the tools you need to be the first to develop applications that enterprise customers and consumers will spend good money for.

10. Convenient, Easily Accessible Location

The Hyatt Regency Santa Clara is in the heart of Silicon Valley, just a few miles from San Jose International Airport.



Monday - August 7 - Avaya Developer Day (See Page 19)

Tuesday - August 8

Day One	Hardware	Software	Security	Ubiquity Next-Gen Sip Track
12:00 - 1:00	Developing IP PBXs for the SMB <small>H-1</small>	Basics of Protocols <small>SW-1</small>	Security For VoIP Developers: What Do You Need To You? <small>S-1</small>	Applying SOA to Real-Time Comms. Application Dev
1:15 - 2:15	Everything You Needed to Know About Gateway Development <small>H-2</small>	Developing Enterprise Communication Services <small>SW-2</small>	Security and Lawful Intercept in VoIP Networks <small>S-2</small>	Integrating Voice Web Services into Applications
2:30 - 3:30	How Smart is Your Gateway? <small>H-3</small>	Developing Hosted VoIP Solutions <small>SW-3</small>	Key Management in VoIP Media Encryption <small>S-3</small>	Understanding Media Server Development
3:45 - 4:45	VoIP Performance and Functional Testing <small>H-4</small>	Communications Web Services <small>SW-4</small>	Implementing Secure VoIP Into a Product Design <small>S-4</small>	Business Opps for Developers in the New Converged Svcs Economy
4:45 - 5:20	Keynote Address by Ron Romanchik, AudioCodes			
5:25 - 6:00	Keynote Address by Fred Zimmerman, Texas Instruments			
6:00 - 7:00	Welcome Reception, Sponsored by Global IP Sound			

Wednesday - August 9

Day Two	Hardware	Software	Wireless	SIP Foundry	Open AIM Phoneline
7:30 - 8:30	Conference Breakfast (Paid attendees only)				
8:30 - 9:05	Keynote Address by David Mandelstam, Sangoma Technologies				
9:10 - 9:55	Keynote Address by Lawrence Byrd, Avaya				
10:00 - 10:45	Evolving Chip Technology: Solving Critical Cost, Quality Challenges for VoIP Networks <small>H-5</small>	Presence & Availability Roundtable <small>SW-5</small>	Implementing VoIP in a Wireless World <small>W-1</small>	Intro to SIPfoundry	AIM Phoneline - A Catalyst for Change in Consumer Telephony
11:00 - 11:45	Development Opportunities With Host-Based Media Processing <small>H-6</small>		Deciphering the VoIP Puzzle: How to Choose the Right Speech Codec <small>W-2</small>	Overview of sipX Project	Open AIM Phoneline - Innovator's Forum
11:45	Conference Luncheon (Paid attendees only) - Sponsored by Ubiquity Software				
12:45 - 1:30	Audio/Video Network Convergence with High Capacity Systems <small>H-7</small>	Identifying VoIP Development Platforms <small>SW-6</small>	Evolving Requirements for Mobile VoIP <small>W-3</small>	Overview of reSIP Project	
1:45 - 2:30	Communications Platforms Trade Association's (CP- TA) Interoperability Efforts <small>H-8</small>	VoIP Performance Management <small>SW-7</small>	Security/Performance Monitoring for VoWiFi <small>W-4</small>	SIP Security Using the SIPfoundry Toolkits	
2:45 - 3:30	Experience Intelligent Communications Through the Telephone Today <small>H-9</small>	Changing the Dynamics of Network Analysis <small>SW-8</small>	Integrating WiFi Telephony Into the Enterprise Communications Infrastructure <small>W-5</small>	Building SIP User Agents Using the sipXtapi User Agent Toolkit	
3:30 - 4:30	VoIP Gear: Build Your Own Versus Buy: What You Need To Know				
4:30 - 5:30	Product Showcases				
5:30 - 8:00	Networking Reception in Exhibit Hall - Sponsored by Avaya				



Conference Agenda At-a-Glance



Thursday - August 10

Day One	Software	IMS Development	SIP Development
8:00 - 8:45	Conference Breakfast (Paid attendees only)		
8:45 - 9:20	Keynote Address by Michael Stanford, Intel		
9:25 - 10:00	Keynote Address by Kevin Fleming, Digium		
10:00 - 4:00	Exhibit Hall Open		
11:00 - 11:45	VoIP Enablement for eCommunities <small>SW-9</small>	Developer Opportunities in IMS <small>IMS-1</small>	SIP: Reshaping the Way Enterprises Do Business <small>SIP-1</small>
11:45 - 12:30	Conference Luncheon (Paid attendees only)		
12:30 - 1:15	Building Business-Class Telephone Systems Using Open Source Technologies <small>SW-10</small>	IMS: Operator Nirvana or Handset Headache? <small>IMS-2</small>	Facing VoIP and SIP Security Threats Head-On <small>SIP-2</small>
1:30 - 2:15	Issues & Opportunities: Developing With VoiceXML <small>SW-11</small>	State-of-the-Art IMS Media Processor Technology <small>IMS-3</small>	Developing Secure, Multi-Lateral Peer To Peer SIP Applications <small>SIP-3</small>
2:30 - 3:15	Unified Communications: A Vision for Innovation <small>SW-12</small>	Developing Convergent Network Applications <small>IMS-4</small>	The Proliferation of Session Initiation Protocol <small>SIP-4</small>
3:30 - 4:15	Multi-Point Conferencing Tools for Enterprise Collaboration Systems <small>SW-13</small>	SCIM – The Evolution to IMS and a Unified Service Layer <small>IMS-5</small>	Empowering SIP Applications with J2EE Technology <small>SIP-5</small>

Keynotes

visit www.voipdeveloper for updated keynote roster



Ron Romanchik
VP Sales, North America
AudioCodes
Blades Business Line



Fred Zimmerman
Executive Director,
Customer Premises Solutions
Packet Voice and Video
Business Unit



Lawrence Byrd
Director of IP Telephony
and Mobility Solutions



David Mandelstam
President/CEO



Michael Stanford,
Director, VoIP Strategy,
Digital Enterprise Group



Kevin P. Fleming
Senior Software Engineer,
Co-Maintainer of Asterisk

For more info contact Dave Rodriguez at 203.852.6800 ext. 146
or droduiguez@tmcnet.com.



Hardware Track

Tuesday – August 8

12:00 - 1:00 pm

Developing IP PBXs for the SMB

SMBs face a different set of considerations before making the transition to IP. For the VoIP provider, these considerations must be taken into account when developing a complete VoIP solution for this market. This session will discuss the latest technologies for smaller business communications systems — particularly in the areas of IP telephony and convergence strategies. It will discuss the various developmental considerations VoIP providers must take into account when approaching the small business market in terms of price considerations, equipment, and expectation.

1:15 - 2:15 pm

Everything You Needed to Know About Gateway Development*

As VoIP traffic continues to grow, so does the need to couple it to legacy interfaces on both equipment and networks. Come along to this fun and exciting session to see how to develop or buy the best gateways for your applications. By using a number of example scenarios, you will learn (from an insider) the key attributes that all serious gateways should have. Whether you need to connect your legacy PBX equipment to an IP network, or want to connect your all new VoIP equipment to a TDM network — this is the session for you.

**Don't be afraid to ask.*

2:30 - 3:30 pm

How Smart is Your Gateway?

Media gateways have gone through a huge change over the last five years. In the beginning, they had the simple task of converting from TDM to RTP all under the strict control of a Media Gateway Controller. Now, they are far more autonomous and responsible for automatic network recovery, routing around network errors, outages, and other issues. They track call records for billing systems, perform self-diagnostics, and measure voice quality. The once simple gateway is now a complex network element with sophisticated management interfaces and high-availability features. This session will examine how we got here and how can these features be leveraged to improve your network reliability and reduce operating costs.

3:45 - 4:45 pm

VoIP Performance and Functional Testing

As VoIP networks and new topologies, such as IMS, are deployed at an ever-increasing rate, new VoIP products are quickly rolling out to support that demand. But how ready are these products for the rigors of live traffic and the real world? Testing these new products (and services) and getting them truly ready for release is becoming a critical consideration. During this session attendees will be treated to an education spanning both enterprise and carrier-grade product test techniques, including:

- Load and functional testing
- Voice quality assessment
- High availability and device integrity testing
- SIP is more than just VoIP
- SIP security

Test plans and test outlines will be distributed, so don't miss this session.

Wednesday – August 9

10:00 - 10:45 am

Evolving Chip Technology: Solving Critical Cost, Quality Challenges for VoIP Networks

Demand for VoIP services is far-reaching with deployment in virtually all major carrier networks across the globe. At issue, however, is how to maintain the voice quality users have come to expect as we introduce a network comprising more latency and other quality-inhibiting factors than its predecessor, and that will actually be comprised of many different network layers all “speaking” a complex array of different IP-based languages. This session will look at innovative semiconductor technologies such as system-on-a-chip architectures complemented by rich suites of voice processing software that are solving the voice quality challenge while giving equipment manufacturers a single, flexible/scalable platform for cost-effectively deploying services while acting as the multilingual “translation hub” in the complex new multi-protocol VoIP universe.



Hardware Track

11:00 - 11:45 am

Development Opportunities With Host-Based Media Processing

Traditionally, voice applications have been built on DSP-powered boards residing in PCs. Those same boards also provided the required TDM connectivity, resulting in TDM-centric solutions. Major advancements in processing power are now changing how application developers design their products. This is primarily due to host-based processing, which enables the development of software-centric applications and products, dramatically speeding time to market and reducing delivery costs. How does an application developer take advantage of host-based processing in the reality of today's mixed TDM and IP environment? This session will examine different approaches for designing voice applications that leverage host-based processing.

12:45 - 1:30 pm

Audio/Video Network Convergence with High Capacity Systems

Equipment manufacturers are looking for combined solutions that integrate audio and video services for all networks — 3G Mobile, Wireline/Wireless Broadband, and PSTN. For achieving these goals, equipment manufacturers require platforms that support evolving standards, short time-to-market, scalable systems in terms of port density, etc. This presentation will discuss the market adoption of these new technologies in different networks as well as the systems-level requirements with reference to media processing with focus on running audio and video on the same DSP. Additionally, the presentation will review high-capacity platforms required for deployment of infrastructure equipment such as Audio and Video Gateways, Multimedia Servers, Messaging Servers, and Session Border Controllers.



1:45 - 2:30 pm

Communications Platforms Trade Association's (CP-TA) Interoperability Efforts

The adoption of open industry standards-based communications platforms is now achieving broad market acceptance by major TEMs and Service Providers. While open standards from PICMG are firmly in place in the industry, a barrier to broad adoption is the lack of uniform interoperability standards of building block implementations by vendors. To achieve true interoperability, the communications platforms building block providers must coalesce around a set of procedural standards on how to interoperate. This effort will benefit TEMs by providing predictability of integrated solutions, faster time-to-market, lower integration costs, alternative sourcing and product choice, and COTS market dynamics. This session will focus on driving a common understanding of the interoperability landscape including the Communications Platforms Trade Association (CP-TA) and the path to achieve a true COTS environment.

2:45 - 3:30 pm

Experiencing Intelligent Communications Through the Telephone Today

User expectations are constantly evolving as technology continues to advance. Today, more than ever, enterprise telephony users are being influenced by consumer telephones, cellular and handheld devices, instant messaging, and other non-real time communications. In this session we'll discuss what capabilities and functionality today's enterprise users expect in their desktop IP Phones.

3:30 pm

Special General Session

VoIP Gear: Build Your Own Versus Buy: What You Need To Know

VoIP equipment manufacturers have long turned to outside partners for development of their hardware platforms. Many developers are now looking to third-party sources for similar development of software VoIP applications. This model allows them to keep up with the market in terms of technological innovation, while focusing their resources on issues such as branding, marketing, and fulfillment. It also allows developers to get their products to market quickly, and in an increasingly competitive market, that's critical. This general session will highlight the debate between outsourcing to satisfy your development needs versus the benefits of designing a home-grown solution.



Software Track

Tuesday – August 8

12:00 - 1:00 pm

Basics of Protocols

There are a wide variety of different protocols that today's VoIP developer can use to build applications. These protocols offer different capabilities, and each is characterized by different strengths and weaknesses. Choosing the right protocol for the job will significantly impact the success or failure of a VoIP application development project. In this session, the speaker will use a variety of real-world specific applications to illustrate what works and why.

1:15 - 2:15 pm

Developing Enterprise Communication Services

The network is no longer voice-centric. While still primarily a communications medium, it translates dozens of communications applications including several real-time application options. This migration necessitates a look at how the core technology for processing these communication streams are designed, developed, and managed. Clearly SIP plays a key role in these new core devices, just as it does in the applications currently being developed. During this session, we will examine the technical challenges facing VoIP developers as they build next generation Enterprise Communication Services to meet the needs of tomorrow's business environment.

2:30 - 3:30 pm

Developing Hosted VoIP Solutions

How can modern telecom service providers defend themselves from rapid obsolescence? The answer lies in the power of leveraging VoIP and Web services to develop compelling new applications to their customers. With the flexibility to quickly, easily, and cost-effectively build high-value applications, developers are driving the proliferation of voice and voice-enabled business applications that just two years ago would have been unthinkable or prohibitively expensive to build, let alone deliver through an on-demand, hosted model. The speakers will discuss examples of development capabilities and how they are being used today to develop dynamic broadcast applications for vertical markets, point of service apps, and other enterprise applications.

3:45 - 4:45 pm

Communications Web Services

In this presentation, attendees will learn how to optimize the enterprise architecture by establishing IP communications as an integral component of business processes through communications Web services. Thus does the IP PBX become an enterprise "softswitch" utilized by various business applications to integrate communications into business processes. Through standard XML and SOAP technology, Web services provide access to the rich communications services of the software-based IP PBX. Web Services aligns with the concepts of a Service Oriented Architecture (SOA) enabling enterprise applications to embed communications functions into business processes. Web services represents a platform-neutral and language-neutral set of development tools for fast, flexible, and repeatable application development and integration.

Wednesday – August 9

10:00 - 11:45 am

Special Double Session

Presence & Availability Roundtable

Presence and Availability are currently used by VoIP and Push-to-Talk applications to indicate a willingness to communicate with other people. The integration of presence status with buddy and contact lists has not only raised the number of successful calls, but also increased the use of voice and IM as compared to 'stale' alternatives, such as traditional telephony and e-mail. However, the marriage of Voice, Presence, and Availability appears to be quite a challenge as existing applications have struggled to truly demonstrate the power of contextual information for voice.

This panel discussion will feature a number of industry leaders discussing Presence and Availability and how developers need to be aware of what's happening in what is arguably one of the hottest areas of VoIP. As organizations become more dependent upon the need to stay connected on all fronts, developers are increasingly being called upon to create the tools and applications that will enable today's business to that make the efficient integration of communication possible.



Software Track

12:45 - 1:30 pm

Identifying VoIP Development Platforms

VoIP developers can choose from many different VoIP application development tools. We explore the major options for application development platforms: new IP telephony-specific application environments, VoiceXML platforms, and Web application environments with VoIP add-on modules. The approaches, capabilities, and trade-offs of these options are explored so that developers can confidently choose the platform most appropriate for their specific situation and goals. In addition, the speaker discusses more targeted tools available for meeting common VoIP application requirements, such as tools for speech recognition, text-to-speech, speaker verification, and more.

1:45 - 2:30 pm

VoIP Performance Management

Many test tools are available to simulate call quality in preparation for VoIP deployment; however, end users don't care about simulations. They want their VoIP calls to be "perfect" every time. In order to meet end-user expectations and deliver upon the promise of VoIP, developers should incorporate monitoring and management capabilities into the development of a VoIP network. This presentation reviews the key issues affecting VoIP performance, introduces a VoIP performance management framework that supports effective management of VoIP services, provides an overview of VoIP Service Level Agreements, and explains the key steps and processes needed to ensure successful deployment and operation of VoIP.

2:45 - 3:30 pm

Changing the Dynamics of Network Analysis

Unlike traditional data protocols, VoIP is sensitive to delays, network congestion, and jitter as it traverses the network. Packets that pass through the core without a problem may present a totally different story by the time they reach the remote office. This session examines the various factors that can lead to poor VoIP call quality, including special considerations for voice over wireless and how the analyst can benefit from packet analysis to pinpoint the causes. We'll also example the pros and cons of analyzing jitter from the live Real Time Protocol (RTP) media stream versus relying on information from RTCP (RTP control packets) and the new RTCP XR (RTP extended reports) packets.

Special General Session — 3:30 pm

VoIP Gear: Build Your Own Versus Buy: What You Need To Know

VoIP equipment manufacturers have long turned to outside partners for development of their hardware platforms. Many developers are now looking to third-party sources for similar development of software VoIP applications. This model allows them to keep up with the market in terms of technological innovation, while focusing their resources on issues such as branding, marketing, and fulfillment. It also allows developers to get their products to market quickly, and in an increasingly competitive market, that's critical. This general session will highlight the debate between outsourcing to satisfy your development needs versus the benefits of designing a home-grown solution.

Thursday – August 10

11:00 - 11:45 am

VoIP Enablement for eCommunities

The newest growth in demand for VoIP applications will come from eCommunities, such as Yahoo!, and new emerging communities, such as the salesforce.com user community. As application developers rush to market with rich presence, conferencing, mobility, and privacy management applications, they may be assuming away the rest of the managed service stack that needs to be in place for wholesale and profitable adoption by their customers. The best way to define the requirements for these solutions is to start with the community user requirements and work down the stack. Come to this session to learn about those high-level requirements, and how we can begin to suggest the characteristics of the managed service stack that needs to be delivered.

12:30 - 1:15 pm

Building Business Class Telephone Systems Using Open Source Technologies

There is no single open source solution for building a business class telephone system. Many telephony enthusiasts have already recognized the value of using open source technologies, like Asterisk, for building telephone systems. But for larger installations, if you are a service provider, contact center, or large enterprise, you need a scalable, robust solution including, for example, failover and manageability. The speaker will provide tips on how to use open-source technologies like SER and Asterisk in concert to build a top-of-the-line business class telephone system. Other topics will include the general benefits of using open



Software Track

source solutions; the infrastructure needed for effectively using open source software; and how VoIP technology can be integrated into enterprise systems.

Thursday – August 10

1:30 - 2:15 pm

Issues & Opportunities: Developing With VoiceXML

VoiceXML brings many of the same advantages of Web application development and deployment to voice applications that HTML brings to visual applications. SIP and VXML technologies are the key to creating demand-generating multimedia services. In this session, we will look at the protocols and technology required to build revenue-generating platforms and applications, as well as discuss the issues and potential solutions involved in the integration of VXML. We will also cover the criteria for carrier-grade gateway devices, including interoperability and conformance with softswitch infrastructure, provisioning services, and certifications for firewall, IPsec, uPnP, and WiFi.

2:30 - 3:15 pm

Unified Communications: A Vision for Innovation

An increasingly dispersed, global workforce is forcing organizations to evaluate how they communicate and share content with critical contacts in order to make better decisions faster. More than ever, companies are making collaboration-related technology purchasing decisions that put people at the center of communications, unlocking the potential of IP telephony and delivering a truly unified communications experience that spans networks, devices, and systems and seamlessly integrates with business applications and processes. This session will offer a look into how a unified communications vision might enhance tomorrow's business environment.

3:30 - 4:15 pm

Multi-Point Conferencing Tools for Enterprise Collaboration Systems

Enterprises are full speed into software-based multi-point VoIP conferencing products today. Delegates will learn how to integrated VoIP and collaboration tools into a single logical solution, yielding powerful conferencing capabilities and wide-band quality voice. Other topics will include how voice engines can provide sophisticated conferencing features and ease of integration with standards-based and proprietary enterprise instant messengers; application and document sharing tools; smart network traffic usage; P2P calling; the advantages of independent traffic control for all parties in a call/conference, media gateway support with standard codecs (G.711, G.729, GSM AMR NB, iLBC) and cascading conferencing server scalability.

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Security Track

Tuesday – August 8

12:00 - 1:00 pm

Security For VoIP Developers: What Do You Need To Know?

Security has emerged as a major concern for organizations deploying VoIP. For developers of both hardware and software solutions, security is a key issue that needs to be addressed from the earliest stages of product design. However, the challenge is to figure out where security fits into the development mix and what kinds of security are actually needed. This presentation will discuss:

- An overview of security threats to VoIP that developers need to address;
- A look at the role of developers in addressing security issues;
- What IP-technologies need security and at what level;
- What developers need to know about security, including determining security priorities.

1:15 - 2:15 pm

Security and Lawful Intercept in VoIP Networks

As IP networks proliferate, more challenges and debates are sparked over the security of VoIP networks and provisions for lawful interception, which has been well-addressed in traditional PSTN networks. As the standards keep evolving, they pose challenges to software developers and silicon providers trying to meet the complex requirements. This session will address important VoIP protocols, such as RTP and SIP, as well as how they relate to security issues. The session will provide information on federal regulations regarding lawful intercept and requirements to support CALEA in VoIP networks. In addition, you can discuss the challenges and the impact on software design required to support security.

2:30 - 3:30 pm

Key Management in VoIP Media Encryption

In this session, the speaker will address common key management protocols, such as pre-shared secret, key transport, and Diffie-Hellman key agreement and its variants. Attendees will learn about related standards and current techniques used in VoIP media encryption. This includes discussions on sRTP key management, MIKEY, SDP security description, ZRTP, and Skype encryption. Finally, the issue of monitoring and recording of encrypted media is discussed, along with its implications to requirements of lawful intercept.

3:45 - 4:45 pm

Implementing Secure VoIP Into a Product Design

There are two facets of security when designing a VoIP gateway box. The first is to secure the actual VoIP connection and its traffic; the second is to secure the box itself with a firewall, IDS/IPS solution, etc. A well-designed VoIP gateway must ensure threat protection from inside the network and configure gateways to only allow access when software is updated. VoIP security features must also protect both SIP and media packets in a variety of deployment scenarios, including client-to-client, branch-to-branch, hub-and-spoke, and service provider provisioned. This presentation will discuss the above criteria for implementing secure VoIP into a product design as well as address the coming convergence of network features in appliances.

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Ubiquity Next-Gen SIP Track

Tuesday – August 8

12:00 - 1:00 pm

Applying SOA to Real-Time Communications Application Development

Presented by: Doug Tucker, CTO Americas

Service Oriented Architecture (SOA) has become a hot trend in recent years in the IT and data communications world due to the efficiencies it brings to software development and application management. SOA is now poised to revolutionize the development of telecom applications, enabling the re-use of application components and insulating the developer from the underlying network complexities.

This session will cover:

1. Evolution of the telephony application
2. An overview of SOA concepts
3. SOA applied to telephony applications
4. Applications that use telephony vs. telephony applications
5. Insulating developers from the service network
6. "Rendering" applications

1:15 - 2:15 pm

Integrating Voice Web Services into Applications

Matt Darby, Sr. Systems Engineer

Web services are fast becoming the preferred method of assembling applications and consuming software in the enterprise. Web services technology is now moving into the telco sector - providing access to capabilities that live in carrier voice and data networks. These kinds of call-control and session-control capabilities have previously remained unavailable to outside software applications. The adoption of web services will dramatically change this traditional separation of carrier networks and commodity software, promising a wave of innovation on the telecom software and services space.

The session will provide an overview of call-control and session-control webservices and provide a short workshop to show how carrier-grade telecom functions can be easily added to software applications.

2:30 - 3:30 pm

Understanding Media Server Development

Kevin Glass, Sr. Developer

In the VoIP world we hear a lot about convergence and voice enabling services as another access channel. We tend to focus on application servers when thinking about service development - however the voice menu, conferencing and rich media requirements of these new applications are met using another type of dedicated platform, Media Servers. Building services against the range of servers available brings new development challenges.

This session will cover:

1. An overview of Media Servers
2. A review of Media Server Service scenarios
3. A discussion of the challenges to developers working with Media Servers
4. Solutions for these challenges
5. A short demonstration of service development

3:45 - 4:45 pm

The Business Opportunities for Developers in the New Converged Services Economy

John Gaffney, Director of Business Development

Today's Service Providers are all searching for ways to increase revenues, capture new customers, lower operating costs, and thrive in a fiercely competitive market. As a result, they are reinventing the way they create services, and are changing their development model to employ strategies to bring new and innovative services to market at Internet speed. This changing dynamic is placing a greater emphasis on the developer, whether internal or a contracted resource, as a competitive weapon in the Service Provider's arsenal.

This session will cover:

1. The business and market drivers for rapid application development
2. Strategies that SPs are using for leveraging developers
3. The role of the "hothouse" in maturing new service concepts
4. Leveraging developer communities to access development resources and accelerate time-to-market
5. How developers win in this market transition



Wireless Track

Wednesday – August 9

10:00 - 10:45 am

Implementing VoIP in a Wireless World

The cost savings and flexibility associated with VoIP and WLANs are well established. Both enable a more streamlined enterprise network that delivers added functionality with lower operating and capital costs. As these technologies proliferate throughout the enterprise, the new challenge for IT is to integrate these technologies together to deliver new levels of mobility and application accessibility. Despite the “two great tastes together” promise of Voice over WiFi, most current WLANs are ill equipped to deliver the Quality of Service, security, and mobility requirements to support VoIP. Without careful planning, IT could potentially find itself with two silos of useful technologies that can’t be successfully integrated. This session will outline the issues facing IT and use real-world deployments to demonstrate solutions to these thorny issues.

11:00 - 11:45 am

Deciphering the VoIP Puzzle:

How to Choose the Right Speech Codec

One of the most difficult tasks facing the designer of a VoIP system is the choice of the speech codecs. An overwhelming number of choices available from different standardization organizations, including ITU-T, IETF, TIA, 3GPP, 3GPP2, and ETSI, as well as proprietary and open source codecs, makes the decision even harder. The speaker will provide an overview of the available speech codecs, compare performance merits and discuss what usage scenarios are best suited for a specific codec. Performance measures include: basic speech quality, performance under packet loss, delay, bit-rate, and complexity.

12:45 - 1:30 pm

Evolving Requirements for Mobile VoIP

The network, the spectrum, and the devices seem to be coming together, but where are the clients? What are the critical attributes of enterprise-grade mobile VoIP implementations? In this session, the presenter will survey the market, the enablers and the players. Attend this session to learn all about the evolving requirements for Mobile VoIP.

1:45 - 2:30 pm

Security/Performance Monitoring for VoWiFi

Voice over WiFi is an increasingly popular application. However, given the high-availability requirements of voice, the need for a robust, reliable WiFi network is even greater than for data. Proper RF design and implementation are the first necessary steps to enable seamless roaming between access points. Performance monitoring is critical to ensure the WLAN infrastructure is not stressed to levels beyond where it is able to provide satisfactory VoIP quality. Lastly, security monitoring and policy enforcement is critical to enable robust VoWiFi deployment.

2:45 - 3:30 pm

Integrating WiFi Telephony Into the Enterprise Communications Infrastructure

Organizations are becoming increasingly aware of the benefits VoIP provides as a collaborative communication tool. Those businesses that demand communicative flexibility and efficiency are now beginning to examine new wireless technologies to help meet these needs. The introduction of new wireless VoIP solutions can now offer the type of vital integration and convergence of multiple communication tools that today’s mobile business must have to be successful. This session will cover the development of wireless VoIP solutions, as well as the issues you need to consider before implementing a wireless communication solution: network assessment, varying approaches to wireless design, securing your wireless network, and the potential return on a wireless investment.

Special General Session — 3:30 pm

VoIP Gear: Build Your Own Versus Buy: What You Need To Know

VoIP equipment manufacturers have long turned to outside partners for development of their hardware platforms. Many developers are now looking to third-party sources for similar development of software VoIP applications. This model allows them to keep up with the market in terms of technological innovation, while focusing their resources on issues such as branding, marketing, and fulfillment. It also allows developers to get their products to market quickly, and in an increasingly competitive market, that’s critical. This general session will highlight the debate between outsourcing to satisfy your development needs versus the benefits of designing a home-grown solution.



IMS Track

Thursday – August 10

11:00 - 11:45 am

Developer Opportunities in IMS

IMS has emerged as a viable, long-term standard. This architecture will fulfill the idyllic promise of converged fixed and mobile services, providing a seamless end user experience across various access networks. In addition, IMS is making room for a new wave of innovative multimedia services, driving the need for an environment where developers can build more value-added applications. This session will detail what carriers need to support the wave of enhanced voice and multimedia services in an IMS environment. The speaker will discuss the benefits and necessities of an IMS media server, media gateway, and signaling gateway to provide innovative services, interworking with both TDM and IP networks, to lower the cost of delivery of these sophisticated services.

12:30 - 1:45 pm

IMS: Operator Nirvana or Handset Headache?

The beauty of IMS is that it allows operators and service providers to use different underlying network architectures (fixed, mobile, or wireless) while offering seamless interoperability and connectivity between services and devices. The advantages for the operator are fairly obvious. But what does it mean for developers of VoIP-enabled consumer handsets? This session will explore key issues that developers will need to consider when planning to support IMS in their next generation products. Topics covered will include:

- Working towards the 3GPP implementation of SIP;
- The implications of IP v6;
- Bridging the cellular world with VoIP technology;
- Understanding the user database and use identities;
- Defining the options for call/session control.

1:30 - 2:15 pm

State-of-the-Art IMS Media Processor Technology

Among the many components in the IMS fixed/mobile convergence architecture, the media gateway function (MGF) and media resource function processor (MRFP) play key roles in the delivery of media services. In this presentation, first an update of the requirements for these essential building blocks is presented. Then the details of the state-of-the-art enabling technology for the MGF/MRFP blocks are discussed. This includes the impact on new services and time-to-market for these services.

2:30 - 3:15 pm

Developing Convergent Network Applications

Application development in the carrier service market is evolving along the same lines as enterprise applications over the past several years. Carriers have been searching for new and innovative ways of breaking the cycle of vertical monolithic application development. The promise of IMS has been the capability of rapidly creating and deploying innovative services. The focus in the industry is evolving away from deployment and up to the application creation environment to address how to fulfill the promise of the flexible IMS infrastructure. This session will explore common application server deployment issues within IMS and discover how SOA development methodologies and standards are moving to simplify the task of creating robust, flexible, and maintainable service applications.

3:30 - 4:15 pm

SCIM - The Evolution to IMS and a Unified Service Layer

The path to IMS, particularly in markets with extensive existing infrastructure representing decades of investment, is an evolutionary one. A central challenge to the new mixed network is creating a unified service layer with continuity across both disparate architectures. IMS itself does not solve the problem of service interaction across the mixed network. Enter SCIM, or service capabilities interaction management. SCIM functionality is critical while evolving towards IMS because it enables the IP-based and traditional service infrastructure to interact. In other words, SCIM functionality enables service providers to horizontally unify the service layer of their networks, mixing, matching and blending traditional and IP-based service infrastructure, thereby leveraging their existing infrastructure investments while creating new IP-based service opportunities.



SIP Development Track

Thursday – August 10

1:00 - 11:45 am

SIP: Reshaping the Way Enterprises Do Business

SIP and the applications it supports, from administration tools and interactive conferencing to voice-enriched e-commerce, continue to reshape the way today's organizations conduct business by creating increased productivity and enhancing efficiency. This session will address the essential features of SIP: how it operates, the advancement of SIP-based solutions, the different diagnostic and support tools that have enabled this protocol to gain such wide acceptance, best practices for deploying SIP solutions, and what the future of innovative SIP-enabled VoIP applications holds.

12:30 - 1:15 pm

Facing VoIP and SIP Security Threats Head-On

VoIP is no longer hype. It's a business reality, and soon, VoIP will become a mission critical communication system. Still, concerns remain around the security of VoIP and the underlying SIP protocol, with fears that they are susceptible to similar types of threats that plague the Web and e-mail. Today, organizations of all sizes need to evaluate and understand the security measures available that allow companies to deploy real-time messaging, voice, data, video, and other SIP-based applications with confidence. In this session, the speaker examines specific SIP security problems including voicemail spam, identity theft, impersonation, session eavesdropping, voicemail bombing, hijacking, and redirection, as well as what steps need to be taken to secure and manage the dynamic nature of real-time SIP communications.

1:30 - 2:15 pm

Developing Secure, Multi-Lateral Peer-To-Peer SIP Applications

Peer-to-peer SIP communications promise greater network efficiencies and simpler operations. However, delivering secure P2P VoIP communications over the Internet is a challenge. This presentation will be a tutorial, that explains how SIP developers can develop secure VoIP peering applications by using Public Key Infrastructure (PKI) technology. By using standard PKI technology, which has been widely used by financial institutions for years, VoIP applications can securely authorize and account for direct peer to peer communications over the Internet without the expense and inefficiency of deploying proxies or session border controller to control P2P VoIP communication.

2:30 - 3:15 pm

The Proliferation of Session Initiation Protocol

Session Initiation Protocol (SIP) is a lightweight, text-based communications protocol for establishing communication sessions. While built for simplicity of implementation, it has begun to live up to its potential of transforming the communications industry. The audience will learn the concepts behind the protocol, and how it greatly simplifies the task of developing VoIP products to meet today's rigorous market demands, including interoperability and scalability. Using the power of SIP to develop Intelligent Communications enriched by presence will also be explored.

3:30 - 4:15 pm

Empowering SIP Applications with J2EE Technology

SIP-based Application Servers offer subscribers a diverse set of services. As Application Servers (AS) normally utilize Media Servers (MS) for real-time media handling, a control protocol is required to enable the AS to control their MS. Today, a lot of vendors have chosen to use a SIP-based interface for their MS and a new set of protocols were developed to enhance SIP in the area of media server control. There is no lingua franca for media server control outside of MGCP and MEGACO. Of note are two competing standards, MSCML and MSML/MOML. This presentation outlines the architecture of a voice and video conferencing solution using MSCML for conference control of a commercially available MS. It will also point out the benefits of SIP-based application development conforming to the JSR-116 SIP Servlet Specification and integration with the J2EE technology.

In addition, the presentation also details a simple proxy/registrar application, which is used for call registration and routing in the conferencing solution.



SIP Foundry Track

Wednesday – August 9

10:00 - 10:45 am

Intro to SIPfoundry

Robert Sparks, SIPfoundry President

This session will provide an overview of the SIPfoundry. Come learn about our mission and what motivates us to build the best open-source real-time communications available. We will take a high-level tour through the SIPfoundry's current projects and their roadmaps. Enterprise, carrier, consumer, and OEM vendors, providers, and users will learn how to benefit from the SIPfoundry's efforts and how to participate in our ongoing growth.

11:00 - 11:45 am

Overview of sipX Project

Scott Lawrence, sipX PBX project coordinator

The sipX family of applications and components fulfill needs throughout the real-time communications space. This session will survey the sipX suite, from the 100%-SIP

100%-open full-featured sipXpbx to the robust sipXmediaLib media processing library. Participants will learn about our recent releases and what's next on our roadmap.

12:45 - 1:30 pm

Overview of reSIP Project

Jason Fischl, SIPfoundry Director

The reSIProcate SIP stack is the industry's reference open-source SIP implementation.

Its mission is to provide a complete and correct implementation that closely follows the ongoing standards work done in the IETF. This session will provide an overview of reSIProcate and the Dialog Usage Manager, a component that abstracts the complexity of SIP dialogs away from the application. We will also introduce two application constructed with reSIProcate: the repro proxy/registrar and the boston-bridge conference platform.

1:45 - 2:30 pm

SIP Security Using the SIPfoundry Toolkits

Dan Petrie, SIPfoundry Vice President

SIP based communications can be secured using the standards: Transport Layer Security (TLS), Secure Multipurpose Internet Mail Extensions (S/MIME) and Secure Real-Time Transport (SRTP). This session provides a brief overview of the protection each of these technologies provide. This session then continues to show how the sipX SIP stack, sipXtapi user agent toolkit, reSIProcate SIP stack and rePRO SIP proxy all support secure communication in an interoperable way to provide extremely high levels of security that was never achievable in the PSTN.

2:45 - 3:30 pm

Building SIP User Agents Using the sipXtapi User Agent Toolkit

Bob Andreasen, SIPfoundry Secretary

sipXtapi is open source SIP user agent toolkit designed specifically for application developers. sipXtapi hides most of the protocol details and is used in solutions ranging from soft phones to ACDs. This session provides an overview of the sipXtapi feature set, strengths and limitations, and a code-walkthrough of an example back-to-back user agent (B2BUA). The B2BUA example demonstrates how to place and receive calls, register line appearances, manage conferences, and play audio.

Special General Session — 3:30 pm

VoIP Gear: Build Your Own Versus Buy: What You Need To Know

VoIP equipment manufacturers have long turned to outside partners for development of their hardware platforms. Many developers are now looking to third-party sources for similar development of software VoIP applications. This model allows them to keep up with the market in terms of technological innovation, while focusing their resources on issues such as branding, marketing, and fulfillment. It also allows developers to get their products to market quickly, and in an increasingly competitive market, that's critical. This general session will highlight the debate between outsourcing to satisfy your development needs versus the benefits of designing a home-grown solution.





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- Developing TSAPI and Telephony Web Service Applications
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5:00- 5:15 pm					
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Wednesday - August 9 7:00 am - 7:00 pm
Thursday - August 10 7:30 am - 4:00 pm

Conference Hours

Tuesday - August 8 12:00 pm - 6:00 pm
Wednesday - August 9 8:30 am - 6:00 pm
Thursday - August 10 8:30 am - 5:15 pm

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- ☐ 1. Network/System Integrator
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- ☐ 15. CLEC
- ☐ 16. Integrated Communications Provider (ICP)
- ☐ 17. Telco/RBOC/IXC/Long Distance
- ☐ 18. ISP
- ☐ 19. Wireless/PCS
- ☐ 20. Cable
- ☐ 21. Application Service Provider (ASP, CASP)/ Outsourcing
- ☐ 22. PTT
- ☐ 45. BLEC/MDU LEC
- ☐ 46. ILEC
- ☐ 23. Other (specify) _____

VoIP/Telephony Industry

- ☐ 8. Telecom Developer
- ☐ 9. Manufacturer
- ☐ 47. Reseller/Retailer/Wholesaler/VAR/VAD
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- ☐ 10. Speech Developer

- ☐ 19. Other Technical Management (Specify) _____

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- ☐ 16. Research/Development/Business Development Management
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