



IPCC Fact Sheet

2003 / 2004

July 2003

**2694 Bishop Drive, Suite 275
San Ramon, CA 94583
+1 925 275 6635
www.packetcomm.org**



Charter

The mission of the International Packet Communications Consortium (IPCC) is to develop the market for all products, services, applications and solutions that utilize **packet-based voice, data and video communications technologies**, regardless of transport medium – wireless, copper, broadband, fiber optics, or other.

The IPCC evolved from the International Softswitch Consortium (ISC), the industry's most longstanding advocate, advancing the maturation of packet-based network technologies and markets. Founded in 1999, the ISC was the premiere forum for the worldwide advancement of softswitch interoperability, promoting the growth of Internet-based multimedia communications and applications. The IPCC continues to build on the groundbreaking work of the ISC.

The IPCC promotes and defines the market acceptance of **Packet Networks** in four important ways:

- **Validation:** The IPCC acts as the premier public advocate for the development and acceptance of packet technologies. It facilitates the definition and acceptance of standards for interoperability and deployment and organizes interoperability test events.
- **Architecture and Operational Definitions and Information:** The IPCC publishes documentation on technical specifications and reference architectures. It offers the most comprehensive library of information on next-generation technologies and innovations. The Consortium also serves as a forum for enhancing the knowledge and ingenuity of its members. It coordinates international and domestic events to educate the industry on packet applications and deployment opportunities.
- **Advocacy:** The IPCC represents the collective concerns of its members to governments around the world through testimony, legal commentary and public education. The IPCC is an official reference and advisor organization to the FCC.
- **Diversity:** By establishing the most diverse group of next-gen companies in the industry, the IPCC is best positioned to advocate the advancement of **Global Packet Technologies**.

Benefits of the IPCC

1. **Service Provider Benefits:**

- Unbiased reference and technical information and ROI tools to assist in the planning of packet based infrastructure and services.
- Access to a diverse vendor forum to partner with to solve specific business problems.
- A forum to share experiences and concerns with other service providers.
- A forum to consolidate feedback with other service providers for regulatory liaison.

2. **Large Vendor Benefits:**

- Ability to provide input to the government agency liaison groups to influence FCC and other regulations.
- Access to various service providers' perspective and feedback in an unbiased forum.
- Access to the best of breed in small, innovative vendors for partnership and new business opportunities.
- Industry leadership through sharing of experience and expertise with service providers and smaller vendors with the result of their niche know-how and research.

3. **Small Vendor Benefits:**

- Benefit from the collective research and have access to wide range of resources developed for education and reference.
- Enhanced visibility in the marketplace with IPCC's marketing programs and presence.
- New business opportunities for partnering with large vendors on niche solutions.
- Develop relationships with Service Providers for business opportunities.

4. **Global Benefits:**

- Definitions of technology, architecture, operational and deployment issues for Next Gen Packet Communications networks, applications and services.
- Manage and influence the direction of the IP/packet technology through vendors and service providers.
- Initiate projects for the benefit of IPCC members (service providers, vendors and the industry at large).
- Special research projects such as, Research First's "Current and Planned Use of Softswitches and Next Generation Networks in the U.S." and the Yankee Group's "Analysis of Global Deployment Plans for Packet Voice Architecture" (on-going).
- An in-depth understanding of the latest standards developments through the exchange of knowledge on standards development activities occurring in the leading standards bodies around the world such as the IETF, IEEE, 3GPP, etc.
- Access to resources to assist members to develop strategic plans for an organization and it's development of future products and services. Resources include research, white papers, reference architectures, case studies/success stories, and other educational materials.
- Collaboration among service providers and solutions vendors in the development of reference architectures and implementation guides, standards recommendations, etc., to ease the adoption and implementation of all forms of packet communications.
- Participation in the Consortium's educational outreach and legal and regulatory advocacy to governmental agencies around the world, enabling members to have a hand in the shaping of the packet communications industry.
- Participation in educational programs without specific vendor/product influences.
- Opportunities to network with the largest group of diverse companies working in the Packet Communications industry.
- A deeper understanding of the requirements of existing and potential business partners from the ranks of the industry's leading service providers and solutions vendors, large and small.
- Enhanced visibility in the marketplace from participating in the IPCC's marketing, PR and publications programs.
- No limit on the number of employee participants from each member company.

2003-2004 Planned Activities

1. **Reference Implementation Guides** – The first topic to be addressed is hosted packet-based business services. This extensive implementation guide will include business case studies illustrating service interworking and security issues, suggested architecture, etc.
2. **Service Provider Forums** – An intimate gathering of selected service providers conducted in North America, Europe and Asia to guide the activities of the consortium.
3. **Technical Documentation** – Development of documents that provide high-level description and benefits of specific reference architectures, case studies/success stories, and other documentation as needed. Documents in process include:
 - a. Hosted IP Communications Applications
 - b. CLASS 4 / Tandem Applications
 - c. CLASS 5 Applications
4. **Research** – Our first topic will be on the wants and needs of Small/Medium and Enterprise customers. This study will examine what service providers need to know to develop applications for these customers.
5. **SUPERCOMM SUPERDemo participation** – IPCC members will again have an opportunity to gain exposure in this key industry event. The IPCC Pavilion will feature IPCC members' products and services, highlighted via a presentation theatre.
6. **Position Papers** – The first 2 issues will be:
 - a. “*Success of Packet Communications.*” Packet is happening. Packet is more efficient. Packet does cost less. Packet does allow for new innovative features. Case studies and IPCC research will illustrate these trends.
 - b. “*Building a Packet Communications Infrastructure.*” This paper will discuss the infrastructure challenges facing countries in the U.S., Asia and Europe and how packet communications technologies can address these issues. It will cover the effect will that these technologies can have on the development of the economies in these and countries including macro level impacts?
7. **Information Dissemination** – Public relations and other marketing activities will support all the above items. Road shows by key leadership in the IPCC will be planned to communicate our messages to analysts (financial and industry), the media and key leaders and organizations in the industry.
8. **Government Liaison** – We have been, and will provide education and information to governmental agencies including FCC, FBI, European Community, etc. Included will be legal commentary on issues of interest to the IPCC membership.
9. **Legal Advocacy** – We will submit of a “contribution” to the CALEA effort of the T1S1 group for the Safe Harbor effort for Legal Intercept (CALEA).

IPCC Documents and Research in Progress and Plan for 2003-2004

Completed:

- Defining SIP in the Next Generation Network
- PRI Offload using Packet-based Communications
- IPCC Reference Architecture v1.0
- IPCC Reference Architecture v2.0
- Softswitch Applications in Wireless Core Networks
- VoP - Hosted Applications & Architecture v1.0
- VoP Glossary (Abbreviations, definitions, etc.)

In-Progress:

- VoP - Hosted Applications & Architecture v2.0
- VoP in Tandem Applications & Architecture
- VoP in Class 5 Applications & Architecture
- Deploying SIP Applications
- Packet Cable Applications

Planned:

- Softswitch in Wireless Networks v2.0
- SIP and Applications Deployments
- IP Hosted Communications Services and Applications
- Business Conferencing
- Calling Card
- IP PBX Applications
- IP Centrex Applications
- Broadband – Packet Cable / Primary and 2nd line VoCable
- Broadband – VoDSL
- VoIP and Call center Applications and Architecture
- Voice Messaging (IP VMS) Applications
- VPN Services
- 800 Numbers
- Find Me/Follow Me Applications
- Packet Communications OSS

Project and Working Groups Methodology

All working groups are project-based vs. topic-based. All members are encouraged to participate and contribute to all projects. Projects, when initiated, are publicized to all the members via the members email reflector. Those who are interested in working on the project are then placed on a new project email list. All communications, edits, ideas, etc., are done via that email list. Projects are divided up in phases. When one phase is completed, that email list is disbanded. When a new phase begins, a new email list is formed, and so on. These projects can be both technical and non-technical in nature.

IPCC Accomplishments

Technology Definition:

- Developed an Application Services Framework for the Next Generation Network (NGN), which is used by many service providers and vendors in deploying next generation applications such as, VoIP, Hosted IP Services, Voice Mail, Call Center Applications, and more!
- Created a session management framework that service providers such as Level 3 are using today.
- Became the De facto home for addressing technology and architecture issues associated with definition and implementation of SIP, IPDC, SGCP, MEGACO and MGCP – created numerous call flows and profiles for MGCP, which are currently being used in many live deployments.

Research:

- Current and Planned Uses of Softswitches and Next Generation Networks in the U.S.
- Analysis of Global Deployment Plans for Packet Voice Architecture.

Federal Government Briefings:

- Conducted numerous briefings to governmental agencies including the FCC and FBI on the benefits of packet-based communications services. Submitted several comments and reply comments in legal proceedings to benefit our membership base.

ROI Case Study:

- Developed an interactive Excel-based ROI tool to calculate Return on Investment from packet communications including net cash flow, present value, and 5-year net present value.

Education & Evangelism:

- Worked with the media to develop by-lined articles to help the industry better understand packet-based communications services.
- Developed speaking opportunities at existing industry shows and IPCC created events to better educate the industry on packet-based communications services and on the IPCC itself.
- Co-organized a full-day seminar on next generation networks at CommunicAsia 2003
- Organized and sponsored the International Softswitch Summit in Beijing, China, 2001/2002/2003. This event was highly regarded and attended by over 200 attendees from key telecommunications organizations in China.

IPCC Leadership

Board of Directors:

Michael Khalilian, <i>Chairman</i>	NTT/SunRise Communications
Ike Elliott	Level 3 Communications
Matt Collier, <i>Treasurer</i>	Telverse Communications
Martine Lapierre	Alcatel
Doug Wadkins	Cisco Systems
John Falzon	SAIC/Telcordia Technologies
Bill Huang	UTStarcom, Inc.
Farshid Mohammadi	CommWorks/3Com
Rubin Gruber	Sonus Networks
David Heard	Santera Systems
Eric Burger	SnowShore Networks

Secretary

Mike Borsetti	Telverse Communications
---------------	-------------------------

Technical Advisory Council Chair

Payam Maveddat	Santera Systems
----------------	-----------------

Contacts:

Michael Khalilian
IPCC Chairman & President
Tel: +1 303.683.7916
M.Khalilian@packetcomm.org

Lily Sun Higman
IPCC Executive Director
Global Inventures Vice President
Tel: +1 712.540.4996
LHigman@packetcomm.org

Representative Voting IPCC Members List:

(IPCC also has non-voting liaison and interface members throughout the industry)

ACE * COMM	Hughes Software Systems, Ltd.	QuesCom
Alcatel	Integral Access, Inc.	Qwest
Alliance Digital	IP Unity	Samsung Electronics Co., Ltd.
Argent Networks, Ltd.	IpGen, Inc.	Santera Systems, Inc.
Axes Technologies	Iskratel, Ltd.,	SentitO Networks, Inc.
BroadSoft, Inc.	Jasomi Networks, Inc.	SnowShore Networks, Inc.
Brooktrout Technology, Inc.	Kabira Technologies, Inc.	Sonus Networks, Inc.
Caerus, Inc.	KDDI Corporation	Sylantro Systems Corp.
Catena Networks, Inc.	KT Corporation	Tekelec
Cbeyond Communications, LLC	Larsen & Toubro Infotech, Ltd.	Sunrise Cable & Com
CCL/ITRI	Level 3 Communications, LLC	Telcordia Technologies, Inc.
Cisco Systems	LG InfoComm U.S.A., Inc.	Telverse Communications, Inc.
Citel Technologies, Ltd.	Mediatrix Telecom, Inc.	Telenetwork Partners, Ltd.
Cognitronics Corporation	NACT Telecommunications, Inc.	Telica, Inc.
COMGATES Ltd.	Natural Convergence	TELOS Technology, Inc.
CommWorks Corporation	Navtel Communications Inc.	Trendium, Inc.
Convedia	Netrake	uReach Technologies, Inc.
Data Connection, Ltd.	NexTone Communications, Inc	Ubiquity Software Corporation
DragonNet Technolgoy Limited	NMS Communications	UTStarcom, Inc.
ECI IP, Inc.	NTT Comware Corporation	VocalTec Communications, Ltd
Elix	NTT-AT	Veraz Networks, Inc.
ETRI	Oki Electric Industry Co., Ltd.	VocalData, Inc.
FutureWei Technologies, Inc.	Primal Solutions, Inc.	
General Bandwidth	Pulver.com	