



**Marcin Drzymala**  
Acting Chairman and President,  
Broadband Forum

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*“In 2009, members submitted a record number of 1,341 contributions, driving industry agreements and forming technical specifications associated with development of 47 critical industry documents.”*

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### Dear Broadband Forum Team Members,

Despite all the global challenges of the past year, I am proud to report that it was a successful year for the Broadband Forum. The scope of Broadband Forum activities continued to powerfully evolve and expand which can be seen in a number of metrics. In 2009, the IP/MPLS Forum united with the Broadband Forum to capitalize on synergies of work between the two organizations and to realize membership efficiencies. This union brings value to our members and the industry as our work now spans the network - core to user!

The relevance of the Broadband Forum's work to the industry was proven by the sheer number and quality of member submitted contributions. In 2009, members submitted a record number of 1,341 contributions, driving industry agreements and forming technical specifications associated with development of 47 critical industry documents. This led to the completion of several technical and marketing reports, including key whitepapers, which are invaluable pieces of work as the Forum takes the lead in providing broadband industry guidance and education.

However, this relevance is also proven by external metrics, such as numerous invitations the Broadband Forum received to participate in and speak at industry events, as well as the tremendous (and growing every year) press coverage we experienced in 2009.

Our liaison and collaboration activities, under the lead of Robin Mersh, our COO and Head of External Relations, are as strong and effective as ever, working to avoid overlapping or duplicated standards and specifications. With the introduction of the internal roadmap, our work becomes more structured, even more focused on industry needs, and consequently the Forum is viewed by our external partners as a stable and reliable organization that delivers on its commitments.

While the scope of activities has expanded, we have maintained our focus on the areas identified as strategically important. As we end 2009, important next generation network architecture decisions are being made, TR-069 enhancements and device model specifications are completing, a new focus on business applications, mobile backhaul and broadband convergence initiatives are taking center stage, and our interoperability efforts are expanding to include GPON testing and a new IP/MPLS certification program. Other key technical activities center on the following themes: IPTV, Policy Management, Energy Efficiency, IPv6, DSL Quality Management, as well as improving Content Delivery.

On behalf of the Board and staff, I thank you for your continued support, and I know that with each of your company's active engagement, the Broadband Forum can look forward to continuing to serve your needs and those of the broadband industry.

Sincerely,



Marcin Drzymala  
Acting Chairman & President, Broadband Forum

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## Board of Directors



**Acting Chairman and President**  
Marcin Drzymala  
Telekomunikacja Polska



**Vice President**  
Andrew G. Malis  
Verizon Communications



**Secretary**  
Tom Starr  
AT&T



**Treasurer**  
Frank Van der Putten  
Alcatel-Lucent



**Board Member**  
Kevin Foster  
BT



**Board Member**  
Sultan Dawood  
Cisco Systems



**Board Member**  
David Sinicrope  
Ericsson



**Board Member**  
Christophe Alter  
France Telecom



**Board Member**  
Ed Eckert  
Ikanos Communications



**Board Member**  
Phil Skeba  
Intel Corporation



**Board Member**  
Nikhil Shah  
Juniper Networks



**Board Member**  
Les Brown  
Lantiq



**Board Member**  
Greg Bathrick  
PMC Sierra



**Board Member**  
Mauro Tilocca  
Telecom Italia



**Chief Operating Officer  
Head of External Relations**  
Robin Mersh  
Broadband Forum

## Committee Leadership

The work of the Broadband Forum is performed under two main working committees and a special advisory committee; Technical Committee, Marketing Committee and the Service Provider Action Council (SPAC).

### TECHNICAL LEADERSHIP TEAM

**Technical Committee Chair:**  
Gavin Young, Cable & Wireless Worldwide

**Technical Committee Vice Chair:**  
Frank Van der Putten, Alcatel-Lucent

**Architecture & Transport Co-Chairs:**  
David Allan, Ericsson  
David Thorne, BT

**Architecture & Transport Vice Chair:**  
Sven Ooghe, Alcatel-Lucent

**Operations & Network Management Chair:**  
Peter Adams, Adtran

**Operations & Network Management Vice Chair:**  
Moti Morgenstern, ECI Telecom

**Testing & Interoperability Chair:**  
Les Brown, Lantiq

**Testing & Interoperability Vice Chairs:**  
Lincoln Lavoie, UNH InterOperability Laboratory  
Massimo Sorbara, Ikanos Communications

**BroadbandHome Co-Chairs:**  
Greg Bathrick, PMC-Sierra  
Heather Kirksey, Alcatel-Lucent

**BroadbandHome Vice Chair:**  
Jason Walls, UNH InterOperability Laboratory

**IP/MPLS & Core Chair:**  
Rao Cherukuri, Juniper Networks

**IP/MPLS & Core Vice Chair Applications & Deployment:**  
David Sinicrope, Ericsson

**IP/MPLS & Core Vice Chair Certification:**  
Drew Rexrode, Verizon Communications

**GPON Interoperability & Conformance Testing Task Force Co-Chairs:**  
Regis Coat, France Telecom  
Alessandro Capurso, Telecom Italia

**Copy Editor:**  
Michael Hanrahan, Huawei Technologies

### MARKETING LEADERSHIP TEAM

**Marketing Committee Chair:**  
Yue Chen, Juniper Networks

**Marketing Committee Vice Chairs:**  
Steve Kingdom, NEC  
Sultan Dawood, Cisco Systems

**Chair of International Development:**  
Nikhil Shah, Juniper Networks

**Best Practices/Summit/BoF Chair:**  
Dov Zimring, Occam Networks

**Ambassadors Chair:**  
Dov Zimring, Occam Networks

**Ambassadors Vice Chair:**  
David Christophe, Alcatel-Lucent

### SERVICE PROVIDER ACTION COUNCIL

**SPAC Chair:**  
Lynn Merrill, OPASTCO

**SPAC Vice Chair:**  
Michel Borgne, France Telecom

## The Broadband Forum Unites with the IP/MPLS Forum

A powerful new worldwide organization was created in 2009 by the union of the Broadband Forum and the IP/MPLS Forum. These two organizations brought together the industry experts who had, until then, looked at the evolving broadband network from its different ends. With this union, the core and access aggregation work of the IP/MPLS Forum seamlessly blends and strengthens the local transport and digital home management specifications of the Broadband Forum.

*Continued on page 4*

## The Broadband Forum Unites with the IP/MPLS Forum *(Continued from page 3)*

United under the Broadband Forum name, the new organization plays an increasingly influential role in defining interoperable network equipment for local broadband access, advancing mobile backhaul solutions as well as empowering the next wave of business services, IPTV, gaming and other applications as they arise.

The union followed an industry analysis undertaken by the IP/MPLS Forum Board in 2008, which concluded that convergence was the key to the future success of standards specifications work. It then focused on how its work aligned with other organizations and when, in June 2008, the former DSL Forum became the Broadband Forum – with a focus on convergence and technology agnostic solutions – it appeared that many gaps towards empowering a stronger end-to-end multiservice architecture could be filled by bringing the two organizations together.

With this union, there are three main changes to the organization. These are:

- In the Technical Committee area, a new IP/MPLS & Core Working Group has been established to continue the MPLS protocol related work brought into the Forum. This group also works closely with the Architecture & Transport Working Group to ensure architecture cohesion, especially in the area of access aggregation.
- In the Marketing Committee area, a new IP/MPLS focused Vice Chair has been added and new IP/MPLS Ambassadors inducted to represent the organization on MPLS related topics. There is also a new Chair of International Development established to ensure proper outreach into growth markets.
- For the 2009 year, a combined Board of Directors was established to oversee the transition.

As well as strengthening our global stance in the standards community generally, the union gives us more resources, wider expertise and the ability to make rapid strides in areas such as defining seamless end-to-end specifications, fostering greater interoperability, delivering enhanced Quality of Experience measurement, enabling greater mobile backhaul capabilities and supporting residential and business services. For our members, the involvement of the IP/MPLS & Core Working Group will bring even greater membership value as they will have the opportunity to play an influential role in how the networks of the future evolve.

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## Technical Committee Achievements

In 2009, our workload was immense as we covered 1,341 contributions, progressed 38 working texts (WTs), resolved 179 straw ballot comments and approved 10 technical reports (TRs). Following the Board's strategic directive, each working group prioritized their workload to ensure that key IPTV, fiber, VDSL2 and remote management/troubleshooting work moved forward quickly. New work was also launched to address IPv6 and energy management.

Great progress was made as the BroadbandSuite 3.1 was finalized in December of 2009. This key release provides the industry with:

### **User related specifications**

- Extend TR-069 provisioning and maintenance to ensure quality Femto Access Point mobile service and coverage
- Provide the framework to continue building recognizable object models for emerging online devices - adding to the family of products and services easily managed via TR-069
- Establish TR-069 use cases, expediting this management platform adoption

### **Management related specifications**

- Define a Vector of Profiles (VoP) based object model for DSL configuration that allows for great flexibility of configuration without an undue burden of data storage in DSL Element Managers or DSLAMs. This is particularly important for VDSL2+FTTx deployment scenarios
- Help service providers implement efficient and cost effective network operation processes such as network creation, service delivery, service assurance and troubleshooting

### **Network related specifications**

- Establish an industry agreed test suite, ensuring common VDSL2 global standards - thereby expediting VDSL2 adoption, and helping manufacturing cost and ultimately price reductions
- Offer whole house splitter specifications that enhance IPTV delivery and ensure consistent customer satisfaction

## BROADBAND SUITE 3.1

USER R3.1	MANAGEMENT R3.1	NETWORK R3.1
<b>TR-157</b> Amendment 1: Component Objects for CWMP: Supported Data Model Table	<b>TR-165:</b> Vector of Profiles	<b>TR-114:</b> VDSL2 Performance Test plan
<b>TR-196:</b> Femto Access Point Service Data Model		<b>TR-115:</b> VDSL2 Functionality Test Plan
<b>TR-106</b> Amendment 3: Data Model Template for TR-069-Enabled Devices		<b>TR-127:</b> Dynamic Testing of Splitters and In-Line Filters with xDSL Transceivers

## Working Group Progress

In the **Architecture & Transport Working Group**, the team expanded their efforts on fiber access with WT-167 on PON fed DSLAMs, WT-200 on EPON and WT-201 on P2P fiber access. The work moved up the stack into FMC with WT-203 and continued work on a consolidated metro architecture & policy (WT134, WT145 and WT178). IPv6 was also a big initiative and will begin to bear fruit in 2010. Following presentations to the SPAC by Ofcom (the UK communications regulator) and other regulators, the group has been examining how Forum work can support the requirements of Active Line Access (ALA). This group also expanded our relationships and level of cooperation and engagement with the MEF, IEEE, ITU-T, ATIS, ETSI and IETF making us more effective in producing TRs of industry significance.

In the **BroadbandHome Working Group**, the Customer WAN Management Protocol (CWMP), also known as the TR-069 family of TRs, went through many updates to address new device requirements brought in via liaison with the Femto Forum, Open Mobile Alliance (OMA), Alliance for Telecommunications Industry Solutions (ATIS), Home Gateway Initiative (HGI), 3GPP and others. This close work with other organizations was critical in moving the industry forward effectively and ensuring better alignment and adoption of our specifications. Now implemented in more than 40 million devices, and required globally in service provider RFPs, this body of work is recognized as a de-facto industry standard.

A Femto Access Point data model (TR-196) was developed in conjunction with the Femto Forum and 3GPP. This new standard is critical for Fixed-Mobile Convergence and efficient operator deployment of Femto Services, and represents a major cross-industry collaboration achievement.

Work this year also progressed around north bound interfaces as the team developed their first northbound interface definitions and requirements (TR-131), continued assessing the impact of IPv6 in remote management address, and compiling technical input to a white paper on IPTV Self Installation Best Practices. Throughout the year there were two TR-069 Interoperability Plugfests.

In the **Testing & Interoperability Working Group**, the VDSL2 test suite achieved completion in 2009. Plugfests were a critical part of developing this work and over the year there were two VDSL2 Chipset Interoperability Events and two VDSL2 System Integrator Events. Dynamic testing of splitters introducing complex modeling of signals in support of POTS and IPTV delivery was progressed via TR-127, and guidelines for the operation of ADSL2plus low power mode have been developed as part of the Forum's work on Energy Efficiency.

In the **Operations & Network Management Working Group**, the focus was on element management and service assurance. The approval of the Vector of Profiles (TR-165) was an important step towards expediting VDSL2 + fiber deployments. There was also progress in the DSL Quality Suite of specifications and the network management options for Bonded DSL and IPTV over DSL, which included a new white paper in development on IPTV Performance Monitoring and Diagnostic Best Practices.

With the union of the Broadband Forum and IP/MPLS Forum, the **IP/MPLS & Core Working Group** was formed and has focused this year on the transition of the IP/MPLS Forum work and developing initiatives started in the IP/MPLS Forum. Progress on MPLS in Mobile Backhaul, MPLS in Carrier Ethernet Networks and certification abstract test suites for both TDM over MPLS and ATM over MPLS has proceeded with little delay from the union. The Working Group continues to aid the Marketing Committee, generating an LTE revision of the MPLS in Mobile Backhaul tutorial as well as an LTE focused MMBI white paper just in time for 2010 MPLS and Ethernet World Congress. In 2010, the Working Group is looking forward to new work on additional test suites, addressing Ethernet over MPLS as well as fostering a close working relationship with Architecture & Transport Working Group on the Multi-Service Broadband Network Architecture.

## 2009 Technical Reports

TR #	TITLE	WORKING GROUP
TR-106 Amendment 3	Data Model Template for TR-069-Enabled Devices	BroadbandHome
TR-114	VDSL2 Performance Test Plan	Testing & Interoperability
TR-115	VDSL2 Functionality Test Plan	Testing & Interoperability
TR-127	Dynamic Testing of Splitters and In-Line Filters with xDSL Transceivers	Testing & Interoperability
TR-131	ACS Northbound Interface Requirements	BroadbandHome
TR-138	Accuracy Tests for Test Parameters	Testing & Interoperability
TR-157	Component Objects for CWMP	BroadbandHome
TR-157 Amendment 1	Component Objects for CWMP	BroadbandHome
TR-165	Vector of Profiles	Operations & Network Management
TR-196	Femto Access Point Service Data Model	BroadbandHome

## Technical Plans for 2010

2010 will be a critically important year on several fronts with key deliverables including -

- Finalizing specifications on IPv6 transition and deployments by service providers
- Continuing the MPLS in Mobile Backhaul Initiative and MPLS certification program
- Progressing specifications for the next steps in the broadband architectural evolution
- Establishing new and collaborative work on GPON testing and interoperability, as well as potentially addressing in-home networking testing,
- Driving emerging work on energy efficiency, which will pick up importance once the industry economic conditions improve, and
- Broadening the Residential Gateway/IGD/Home Networking and end device management, which is our most referenced by other organizations and most utilized suite of specs

In all, 2010 promises to be a very busy and productive year. During the year, we expect to continue the joint work and liaison efforts that were so successful in 2009. The work of the Broadband Forum has truly provided a solid basis for industry adoption of a single remote management specification; and for industry aligned solutions for IPTV and triple play service bundles over broadband.

## Liaison Program

The last year witnessed unprecedented levels of activity between the Broadband Forum and our liaison partners around the world, as the Broadband Forum has delivered major pieces of work and developed our industry relationships.

We received 78 incoming liaisons and sent out 71 liaisons to 18 different groups in the last year. We liaise our work around the world and as our scope of work has grown to address IPTV services, fiber technologies, FMC and energy efficiency requirements, the number of active partners has grown.

Our involvement in standards collaboration has continued with participation in Global Standards Collaboration 14 in Geneva, a workshop on energy efficiency in Paris and several conference panel discussions on future activities.

Our established liaison relationships such as the ITU-T, ATIS, IETF and ETSI continue to be very productive and significant to the industry. And many of the newer liaison relationships have blossomed into significant agreements and technical collaborations in 2009:

- 3GPP – TR-196 and FMC architecture considerations
- 3GPP2 – TR-196
- Femto Forum – TR-196
- Full Service Access Network – GPON interoperability and conformance testing
- Home Gateway Initiative – various requirements for residential gateways
- Metro Ethernet Forum – Active Line Access requirements and Mobile Backhaul considerations
- Open Mobile Alliance – converged device management

## LIAISON OFFICERS

PARTNER ORGANIZATION	TYPE	BBF LIAISON OFFICER
3GPP	Collaboration	Jaume Rius i Riu, Ericsson
Alliance for Telecommunications Industry Solutions (ATIS)	Liaison	Tom Starr, AT&T (NIPP-NAI) Ed Eckert, Ikanos Communications (NIPP-NAI)
Broadband Services Forum (BSF)	Liaison	Robin Mersh, Broadband Forum
Consumer Electronics Association (CEA)	Cooperation	Robin Mersh, Broadband Forum
Digital Living Network Alliance (DLNA)	Liaison	Phil Skeba, Intel Corporation
Digital Video Broadcasting project (DVB)	Liaison	William Lupton, 2Wire
European Telecommunications Standards Institute (ETSI)	Cooperation	Olivier Van De Wiel, Broadcom Corporation
Femto Forum	Cooperation	Greg Bathrick, PMC Sierra Heather Kirksey, Alcatel-Lucent
Home Gateway Initiative (HGI)	Liaison	Robin Mersh, Broadband Forum
Internet Engineering Task Force (IETF)	Liaison	Andrew G. Malis, Verizon Communications Greg Bathrick, PMC Sierra
International Telecommunication Union (ITU-T)	Liaison	Tom Starr, AT&T (Q4 SG15) David Sinicrope, Ericsson
Metro Ethernet Forum (MEF)	Liaison	David Sinicrope, Ericsson
MultiService Forum (MSF)	Liaison	Robin Mersh, Broadband Forum
Open IPTV Forum	Liaison	Robin Mersh, Broadband Forum
Open Mobile Alliance (OMA)	Cooperation	Heather Kirksey, Alcatel-Lucent
Telemanagement Forum (TMF)	Liaison	Robin Mersh, Broadband Forum
Universal Plug And Play Forum (UPnP)	Liaison	Heather Kirksey, Alcatel-Lucent
WiMax Forum	Collaboration	Greg Bathrick, PMC Sierra Heather Kirksey, Alcatel-Lucent

## Service Provider Action Council (SPAC) Activities

The Service Provider Action Council (SPAC) is a service provider Board advisory group that brings the Service Provider community together to guarantee the Broadband Forum has continuous guidance on technical and service evolutions, and acts to ensure that key work items have service provider engagement needed to ensure timely standards delivery. At each meeting in 2009, the SPAC attendance averaged more than 50 attendees from more than 15 service provider companies.

### Topics in 2009 included:

- TR-069 Adoption & Feature Enhancement Requirements
- Energy Efficiency; Industry Requirements/Efforts and Operational Cost Impacts
- Seamless MPLS-Extending MPLS towards Access & Aggregation
- IPv6 Service Provider Requirements
- Policy Server Requirements and Options
- IP Session Monitoring
- Testing Requirements for Management Interfaces for the DSL Access Node
- Assessing the Promise of G.hn
- Architecture Direction; 2010 and beyond

## Marketing Committee Achievements

In 2009, the Marketing Committee expanded its role in several directions. The team embraced a new mission - to be a catalyst to our industry; deploying resources to educate, liaise and promote new options and solutions, championing industry cooperation and expediting broadband growth. With this in mind, the group formed two tracks to organize the various efforts; Marketing Communications and Strategic Marketing. Marketing Communications continued the work focused on promotion vehicles, such as tradeshow, PR and web presence while the Strategic Marketing track began the development of new collateral, with a special emphasis on the development and timely release of critical white papers and tutorials to help the industry connect with the Forum's work.

With this new focus, three new white papers were released to great industry response:

- Next Generation Broadband Access (MR-185)
- BroadbandSuite 3.0 Companion Guide (MR-186)
- Energy Efficiency, Dematerialization and the Role of the Broadband Forum (MR-204)

An additional 7 white papers are in development now, including ones on ALA, IPv6 and MPLS in Mobile Backhaul. Our first internally developed tutorial, MPLS in Mobile Backhaul went into Straw Ballot in 2009, with three additional tutorials in development and scheduled for 2010 availability.

### Summit and Best Practices

The Summit and Best Practices Working Group raised the bar on securing high level informative keynotes and birds of a feather panels for the Forum's quarterly meetings. The list of speakers and topics for the 2009 quarterly meetings is listed below:

MEETING	KEYNOTE	BIRDS OF A FEATHER PANELS
<b>Q1 Meeting</b> – New Orleans, USA	Ludwig C. Graff Director Corporate Network & Technology, Verizon Communications	
<b>Q2 Meeting</b> – Valencia, Spain	Phillipe Lucas Vice President, International Standards and Industry Relationships, FT/Orange	
<b>Q3 Meeting</b> – Tokyo, Japan	Dr. Makoto Takano Research and Development Center, NTT West Corporation	"The Future of PON"
<b>Q4 Meeting</b> – Budapest, Hungary	Thomas Bertram CTO Fixed Network, Magyar Telekom	

### 2009 Events

We maximized education and exposure by coupling conference speaking opportunities with educational booths at key tradeshow around the world. The results were phenomenal; increasing awareness of the Forum's work, stimulating new membership growth and increasing liaison interest and activity. Moreover, these events enhanced the Forum's press and analyst outreach programs by enabling the Forum to schedule face-to-face interviews and press conferences with key industry media and analysts.

### Ambassadors

The Ambassador Working Group continued educating the marketplace about the work of the Broadband Forum. They are charged with placing Forum subject matter experts in speaking opportunities that showcase the Forum's work and new specifications. In 2009 the Forum Ambassadors ensured that the Forum was represented in key industry events as well as engaged with other standards groups on the Forum's work. It is critical that our education effort is global, and in 2009 presentations were made throughout the world.

### Below is the 2009 Educational Booth schedule:

*IPTV World Forum*  
**LONDON, UK**

*CommunicAsia*  
**SINGAPORE**

*Broadband World Forum Europe*  
**PARIS, FRANCE**

*Telco TV*  
**ORLANDO, USA**



### Public Relations

The launch of an industry union required careful press build up, a strong announcement and significant follow up to ensure global excitement and support of the union. The PR team was instrumental in the positive launch of the union and developing a strong funnel of other news to

Highlights of the Forum's 2009 outreach program:

OUTREACH 2009	TOTAL
Forum Press Coverage	2200
News Releases Issued	14
Media Interviews	92
Analyst Interviews	7
Features Developed/Placed	13
General Industry References	84
Member/Outside Forum Press References	113

ensure the continued promotion of key technical work and initiatives such as the first ever Broadband Network Energy Efficiency Roundtable, the three new white papers and the release of BroadbandSuite 3.1. The amount of coverage this year was equal to the sum of the past three years, a significant achievement that speaks to the solid reputation and industry following of the Broadband Forum's work.

### Marketing Plans for 2010

As the Marketing Committee looks ahead to 2010, focus areas include:

- Promoting the next wave of BroadbandSuite releases
- Continuing to develop and promote our expanding library of white papers and tutorials
- Driving awareness of the continued benefit and capabilities of DSL in broadband deployments, especially when paired with fiber in hybrid deployments
- Promote our new certification efforts
- Establishing awareness of our work related to broadband convergence and mobile backhaul
- Developing new venues for communicating the value of the Broadband Forum work, i.e., social networking tools such as video promotion, Twitter and LinkedIn.

As the technical work advances and new releases become available, we will promote the benefits of this work. Continued byline and press outreach will ensure our work, including MPLS, IPv6, energy and fiber related initiatives, will be highlighted. Efforts will be made to place our white papers in external technology libraries to reach the most potential beneficiaries. Tutorials are already scheduled for two major events. And by leveraging three educational booths and four tabletop displays already scheduled at key regional events and the more than twenty-one Ambassador speaking opportunities already on our calendar - our marketing team promises to have a busy year.

### AMBASSADOR APPEARANCES BY REGION

Americas	9
Europe	7
Asia	3

### Special thanks to our 2009 active ambassadors:

Zhang Boshan, ZTE Corporation  
 Kevin Foster, BT  
 Laurie Gonzalez, Broadband Forum Marketing Director  
 Steve Kingdom, NEC  
 Peter Macaulay, East-by-North  
 Lynn Merrill, OPASTCO  
 Robin Mersh, Broadband Forum COO  
 Nikhil Shah, Juniper Networks  
 Gavin Young, Cable & Wireless Worldwide  
 Dov Zimring, Occam Networks  
 Kevin Zu, Huawei Technologies

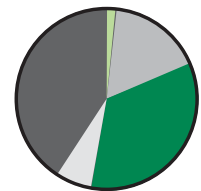
## Broadband Forum Membership and Operations

The Broadband Forum has been at the forefront of many of the changes happening in the broadband industry. Our membership has remained stable with only a slight drop from 202 member companies in 2008 to 197 in 2009, and we added new MPLS interested members with our union. Our regional base continues to align with the aggressively growing broadband markets, such as Asia.

The graphs (at right) show the diverse regional and industry segment breakdown.

The focus in 2009 for Forum operations was of course to ensure that member satisfaction remained high, and that services were delivered efficiently and cost effectively. 2009 has seen continued success with key objectives met and best practices maintained.

*Continued on page 10*



**Regional Membership**  
 Legend: Oceania (light green), Asia (light grey), Europe (dark green), Middle East/Africa (medium grey), Americas (dark grey)



**Industry Segment Breakdown**  
 Legend: Service Providers (dark grey), Vendors (dark green), Consultants (light green), Organizations (light grey)

## Broadband Forum Membership and Operations *(Continued from page 9)*

The website has been enhanced with new online member tools; quarterly meetings were increased to five days; the Forum has seen significant effort to reduce its carbon footprint; support for volunteer editors has been enhanced and the operations of the IP/MPLS Forum have been successfully integrated.

2010 follows a very busy and successful year and the Forum is looking forward to delivering another year of operational excellence to its members. In challenging economic times the Forum will continue to strive for the utmost value for the investment our members make into standards.

## Membership List 197 Total Members as of December 31, 2009

### Principal Members (97)

2Wire  
 Actiontec Electronics  
 ADTRAN  
 Airvana, Inc.  
 Alcatel-Lucent  
 AT&T  
 AVM  
 Aware  
 Belgacom  
 Bell Canada  
 Broadcom  
 BT  
 Cable & Wireless Worldwide  
 Calix Networks  
 Celtro  
 Cetecom  
 China Telecom  
 China Unicom  
 Chunghwa Telecom Labs  
 Ciena Corporation  
 Cisco Systems  
 Comtrend  
 Conexant Systems Inc.  
 Corning Cable Systems  
 Covad Communications  
 Cyta  
 Deutsche Telekom  
 D-Link  
 DISA  
 DS2  
 ECI Telecom  
 Embarq  
 Ericsson  
 Excelsus Technologies  
 EXFO  
 Fastweb  
 France Telecom  
 Freescale Semiconductor  
 Fujitsu  
 Gigaset Communications GmH  
 Hellenic Telecommunications

Hitachi Communications Technologies America  
 Huawei Technologies Co., Ltd.  
 Ikanos Communications  
 Intel Corporation  
 Intellon  
 JDSU  
 Juniper Networks  
 Keymile  
 Lantiq  
 LSI Corporation  
 Magyar Telekom PLC  
 Microsoft Corporation  
 Motorola  
 NEC  
 Netgear  
 Nokia Siemens Networks GmbH & Co. KG  
 Nortel Networks  
 NTT Advanced Technology  
 NTT Comware  
 NTT West  
 Occam Networks  
 Oki Electric  
 PacketFront AB  
 Pirelli Broadband Solution S.p.A.  
 PMC Sierra, Ltd.  
 Portugal Telecom Inovacao, SA  
 Qwest Communications  
 RAD Data Communications  
 Sagem Communications  
 Samsung Electronics, Co., LTD  
 Spirent Communications  
 Sumitomo Electric Industries  
 Swisscom (Switzerland, LTD)  
 Tata Communications  
 Tata Teleservice  
 TDC A/S  
 Teknovus  
 Telcordia Technologies  
 Telecom Italia S.p.A  
 Telecom New Zealand

Teledata Networks  
 Telekom Austria TA AG  
 Telekomunikacja Polska S.A.  
 Telenor  
 TeliaSonera  
 Tellabs  
 TELUS Communications, Inc.  
 Thomson  
 Tollgrade Communications  
 TRaC Telecoms & Radio  
 TTNNet A.S.  
 Utstarcom  
 Verizon Communications  
 Westell  
 Zarlink Semiconductor  
 ZTE Corporation

### Small Company Principal (41)

4Home  
 Actelis Networks  
 AIMS (INT) Ltd  
 Alphion  
 Applied Network Solutions, Inc.  
 Asoka USA Corporation  
 ASSIA Ltd.  
 Axerra Networks  
 Axiro  
 BandWD  
 Broadlight  
 Clear Access, Inc.  
 Coppergate Communications  
 Dimark Technologies, Inc.  
 EANTC  
 East by North  
 Entropic Communications  
 Ethernity Networks, Ltd.  
 Fine Point  
 Fraunhofer Institute  
 Gatespace Networks, Inc.  
 Gige Networks  
 Incognito Software  
 Iometrix

LAN  
 Metanoia Communications  
 Mirifice, Ltd.  
 Owera AS  
 Real Communications  
 Sparnex Instruments  
 Starbridge Networks, L.L.C.  
 Telebyte, Inc.  
 Telephone Equipment (NSW) Pty  
 Tilgin  
 Tracespan Communications  
 Traveling GmbH  
 TrendChip Technologies Corp.  
 U4EA Technologies Limited  
 Wilcom  
 Works Systems  
 Zeugma Systems, Inc.

### Auditing (42)

Agama Technologies  
 Allied Data Technologies  
 Allied Telesis  
 Arcadyan Technology Corp.  
 Askey Computer  
 Ayecom Technology  
 Cambridge Industries Group  
 Cameo Communications  
 Consona Corporation  
 Cincinnati Bell Telephone  
 Elisa Corporation  
 Espial Group Inc.  
 Fiberhome Telecommunications Technologies Co., LTD  
 Funkwerk IAD GmbH  
 Gemtek Technology Co.  
 Iskratel  
 Lattelekom SIA  
 Mitsubishi Electric Corporation  
 Mitsubishi Research Institute, Inc.  
 Nemko AS  
 OPT New Caledonia  
 Pace

QA Café  
 Redline Communications  
 SaskTel  
 ServComm Inc.  
 Shenzhen Gongjin Electronics Co., Ltd.  
 Singapore Telecommunications Limited  
 Sky Networks Services  
 SMC Networks  
 Sunrise Telecom Inc.  
 Suttle  
 Telekom Slovenia  
 Telkom SA Ltd  
 Telsey S.p.A.  
 Telstra Corporation Ltd.  
 Transwitch Corporation  
 Triductor Technology  
 XAVI Technologies  
 Zhong Technologies  
 Zoom Technologies  
 Zyxel Communications

### Associate (17)

Communication Authority  
 ETRI  
 FTW  
 Ghent University  
 GPRT/FADE/UFPE  
 Instituto de Telecomunicacoes  
 International Engineering Consortium  
 ITRI  
 Ofcom  
 OPASTCO  
 Point Topic  
 Prairie View A&M University  
 Research Institute of Telecommunication Transmission (RITT)  
 Robotiker-Tecnalia  
 Stanford University  
 TNO  
 UNH Interoperability Lab

## Financial Report

Auditors John Waddell & Co, Certified Public Accountants, have audited the financial statements of the Broadband Forum. The following gives an overview over the key financial figures and indicators of the Broadband Forum.

### STATEMENT OF FINANCIAL POSITION

December 31	2009	2008
<b>Assets</b>		
Cash and cash equivalents	\$ 504,531	\$ 535,626
Temporary cash investments	1,243,000	1,164,000
Accrued interest receivable	6,973	20,441
Accounts receivable	-	7,852
Prepaid expenses	27,480	14,436
Investments	750,437	578,953
<b>Total Assets</b>	<b>2,532,421</b>	<b>\$ 2,321,308</b>
<b>Liabilities</b>		
Accounts payable	59,169	\$ 192,090
Deferred membership dues	463,160	488,900
Net assets – unrestricted	2,010,092	1,640,318
<b>Total Liabilities</b>	<b>\$ 2,532,421</b>	<b>\$ 2,321,308</b>

### STATEMENT OF REVENUE, EXPENSES AND CHANGES IN NET ASSETS

December 31	2009	2008
<b>Revenue</b>		
Membership dues	\$ 1,164,900	\$ 1,114,800
Meeting fees	270,534	275,888
Sponsorship fees	64,984	167,755
Investment income	130,324	18,790
Net contribution from IP/MPLS	470,463	-
Other income	450	-
<b>Total Revenue</b>	<b>2,101,655</b>	<b>1,577,233</b>
<b>Expenses</b>		
Meetings	599,333	492,444
Trade shows	22,893	187,833
Management fees	573,350	555,434
Marketing and public relations	332,368	407,412
General and administration	174,338	119,578
Miscellaneous/contingency	1,313	3,067
Technical committee	28,286	-
<b>Total Expenses</b>	<b>1,731,881</b>	<b>1,765,768</b>
Change in Net Assets	369,774	(188,535)
<b>Net Assets – unrestricted</b>		
Beginning of year	1,640,318	1,828,853
End of year	\$ 2,010,092	\$ 1,640,318

## Membership Levels

The Broadband Forum is an international non-profit industry association working cooperatively to develop the full potential of broadband. We have forged a powerful alliance of service providers and companies from virtually every sector of communications, networking and computer industries around the world to focus on determining common global technical specification, sharing deployment best practices, empowering the effective deployment of quality broadband access networks as well as facilitating development of digital home remote management standards.

### Principal Membership - \$ 9,750 US

- Attendance to all annual, general and committee meetings of the Forum
- One vote each on all Forum issues, technical reports, and marketing reports
- Access to all working documents, contributions, technical reports, and meeting minutes
- Eligibility to run for Board of Director and Committee officer positions
- Eligibility to submit Technical Committee and Marketing Committee contributions
- Subscription to all Broadband Forum email mailing lists

### Small Company Principal Membership - \$ 4,750 US

- All the privileges listed above for a Principal Member

*Note: Small Company Principal Members must have had annual revenues under \$10 million USD in the previous year and are required to submit a letter from their CEO stating this.*

### Auditing Membership - \$ 3,750 US

- Attendance to all annual and general (i.e., Summit and Plenary) meetings of the Forum
- Access to all working documents, contributions, technical reports and meeting minutes
- Subscription to all Broadband Forum email mailing lists
- Auditing members may NOT attend committee meetings (i.e., Technical and Marketing Working Group meetings) of the Forum and are NOT eligible to submit Technical Committee or Marketing Committee contributions or vote on Forum issues, technical reports or marketing reports

### Associate Membership - \$ 1,000 US

- Attendance to all annual, general and committee meetings of the Forum (but not eligible to vote)
- Access to all working documents, contributions, technical reports and meeting minutes
- Subscription to all Broadband Forum email mailing lists

*Note: Associate Members must be not for profit or educational institutions. Institutions will be approved for membership annually by a majority vote of the Board of Directors.*

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## Broadband Forum Staff

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