**A Brief History of the**

**Internet Advisory / Activities / Architecture Board**

The origin of today’s IAB lies in the Internet Configuration Control Board (ICCB), which was created in 1979 by Vint Cerf, at that time program manager at [DARPA](http://www.darpa.mil/), to advise him on technical issues. The ICCB was chaired by David Clark, MIT.

In September 1984, after the ICCB meeting held at RSRE in Malvern, UK, the ICCB was disbanded and replaced by the Internet *Advisory* Board (IAB). This change was initiated by Dave Clark and Barry Leiner, who had taken over management of the Internet research program at DARPA. The IAB consisted of the chairs of the newly-formed research task forces and Jon Postel (ISI), as RFC editor and “protocol czar”. The first set of chairs of the task forces were the members of the ICCB. The IAB was chaired by Dave Clark.

In 1984, there were 10 Research Task Forces [[Braden 1998]](http://utgard.ietf.org/iab/about/history.html#braden98):

|  |  |
| --- | --- |
| **Task force** | **Chair** |
| Gateway Algorithms | Dave Mills, Linkabit |
| New End-to-End Service | Bob Braden, UCLA |
| Applications Arch. and Requirements | Bob Thomas, BBN |
| Privacy | Steve Kent, BBN |
| Security | Ray McFarland, DoD |
| Interoperability | Rob Cole, UCL |
| Robustness and Survivability | Jim Mathis, SRI |
| Autonomous Systems | Dave Clark, MIT |
| Tactical Internetting | Dave Hartman, MITRE |
| Testing and Evaluation | Ed Cain, DCEC |

In 1986 Dennis Perry, the program manager at DARPA, decided that DARPA should divide its efforts into the areas of Internet-related activities and distributed systems. The Internet area was to be coordinated through the Internet Activities Board, and the effort in distributed systems was coordinated through the “Distributed System Architecture Board” (DSAB), chaired by Doug Comer. Both the DSAB and the IAB used an organizational model where each member chaired a task force. [[Comer 2002](http://utgard.ietf.org/iab/about/history.html#comer)].

In May 1986, the IAB become the Internet *Activities* Board ([RFC 985](http://www.ietf.org/rfc/rfc985.txt)).

NSF also elected to support DARPA’s existing Internet organizational infrastructure, hierarchically arranged under the (then) Internet Activities Board (IAB). The public declaration of this choice was the joint authorship by the IAB’s Internet Engineering and Architecture Task Forces and by NSF’s Network Technical Advisory Group of [RFC 985](http://www.ietf.org/rfc/rfc985.txt)[May 1986] (Requirements for Internet Gateways), which formally ensured interoperability of DARPA’s and NSF’s pieces of the Internet.[[A Brief History of the Internet](http://www.isoc.org/internet/history/brief.shtml#Transition)]

During August 25-27, 1986, the IAB held the first TCP/IP Vendors Workshop in Monterey, California, in cooperation with DARPA. This event later became Interop.

Later, the *Privacy* task force became *Privacy and Security*, while *Gateway Algorithms* became GADS (Gateway Algorithms and Data Structures), which in turn was split into *Internet Architecture* (INARCH) and the [Internet Engineering Task Force (IETF)](http://www.ietf.org/). The first [IETF meeting](http://www.ietf.org/meetings/past.meetings.html) took place in 1986, with Mike Corrigan (Defense Data Network (DDN)) as the first [IETF chair](http://www.ietf.org/ietf_chairs_year.html), followed by Phill Gross starting at the fourth meeting. (Working groups were formed in the 5th meeting in 1987; working groups were divided into areas starting at the 15th meeting in 1989.)

The first IETF meeting started out as GADS and ended as INENG/INARCH when Mike Corrigan arrived from the IAB meeting. Mike Corrigan moved to OSD (Office of Secretary of Defense) on October 1, 1986 (the beginning of the fiscal year) and Phill Gross took over at that point. INENG was intended to be a group of operators and its early make up revolved around DOD, NASA, DOE and NSF and their contractors and researchers. Phill Gross was at Mitre under contract to DDN (working for the DDN technical director, Mike Corrigan, then others) when he became chair.

In January 1989, there were the following task forces:

|  |  |
| --- | --- |
| **Task force** | **Chair** |
| Internet Engineering | Phill Gross, CNRI |
| Internet Architecture | Dave Mills, UDel |
| Autonomous Networks | Deborah Estrin, USC |
| New End-to-End Services | Bob Braden, UCLA |
| User Interface | Keith Lantz, Olivetti Research |
| Privacy and Security | Steve Kent, BBN |
| Scientific Requirements | Barry Leiner, RIACS |

The IAB and the task forces were supported by an inter-agency committee of the US government, the FRICC, later to be come the FNC (Federal Networking Comittee).

The next reorganization was planned in Annapolis, Maryland in the summer of 1989. DARPA and the Internet were changing, and the DSAB and IAB were reorganized. Applications and distributed computing were folded into the IAB charter. [[Comer 2002](http://utgard.ietf.org/iab/about/history.html#comer)] The Annapolis meeting also established the IESG and IRSG, both appointed by the IAB. Some of the task forces became working groups, others research groups in the IRSG. [[Braden 1998]](http://utgard.ietf.org/iab/about/history.html#braden98)

The 14th IETF meeting was held at Stanford University in July 1989. It marked a major change in the structure of the IETF universe. The IAB (then Internet Activities Board, now Internet Architecture Board), which until that time oversaw many “task forces,” changed its structure to leave only two: the IETF and the IRTF. The IRTF was tasked to consider long-term research problems in the Internet and a number of Task Forces were restructured as IRTF research groups. For example, the End-to-End Task Force became the IRTF’s End-to-End Research Group (E2E) and the Privacy & Security Task Force became the IRTF’s Privacy & Security Research Group (PSRG). The IETF also changed at that time. [[RFC 3160](http://www.ietf.org/rfc/rfc3160.txt)]

After the Internet Society (ISOC) was formed in January, 1992, the IAB proposed to ISOC that the IAB’s activities should take place under the auspices of the Internet Society. During INET 1992 in Kobe, Japan [June], the ISOC trustees approved a new charter for the IAB to reflect the proposed relationship.” [[RFC 3160](http://www.ietf.org/rfc/rfc3160.txt)]

As part of that reorganization, the Internet Activities Board was re-organized and re-named the Internet Architecture Board. The IESG and IETF assumed a larger and independent role in approving Internet standards.

During the last half of 1992, the relationship between the IAB and the IETF came under scrutiny through the first POISED Working Group which reallocated responsibilities for standards decision making and established the framework around which the current practices for populating IAB and IETF are conducted. The POISED Working Group presented its conclusions and recommendations to the Internet Society Board of Trustees in December 1992 and these were accepted as the working basis for the relationships among IAB, IESG, ISOC and IETF participants. Subsequently, [RFC 1310](http://www.ietf.org/rfc/rfc1310.txt) was prepared by the IETF in an attempt to codify these working principles [ [RFC 2026](http://www.ietf.org/rfc/rfc2026.txt) is the current version of this document, with further updates in [RFC 3667](http://www.ietf.org/rfc/rfc3667.txt), [RFC 3668](http://www.ietf.org/rfc/rfc3668.txt) and [RFC 3932](http://www.ietf.org/rfc/rfc3932.txt)]. [ [IETF and ISOC](http://www.isoc.org/internet/history/ietfhis.shtml)]

**IAB Members**

*Unless otherwise noted, the terms of IAB members began in March or April of the year listed and ended in March or April of the year listed. The names below are listed by starting year. It is likely that several members from the early years of the IAB are missing. Uncertain dates are marked by ‘?’.*

|  |  |  |  |
| --- | --- | --- | --- |
| **Member** | **Organization (at time of service)** | **From** | **To** |
| Dave Clark | MIT | 1983 | ? |
| Vint Cerf | Corporation for National Research Initiatives (CNRI) | 1983 | 1993 |
| Stephen Kent | BBN | 1983 | 1995 |
| Anthony Lauck | DEC | 1983 | 1995 |
| Bob Braden | UCLA | 1981 | 1994 |
| Dave Mills | Linkabit | 1984? | ? |
| Bob Thomas | BBN | 1984? | ? |
| Ray McFarland | U.S. Department of Defense (DoD) | 1984? | ? |
| Rob Cole | UCL | 1984? | ? |
| Jim Mathis | SRI | 1984? | 1988 |
| Dave Hartman | Mitre | 1984? | ? |
| Ed Cain | Defense Communications Engineering Center (DCEC) (part of DCA) | 1984? | ? |
| Doug Comer | Purdue University | 1986 | 1989 |
| Lyman Chapin | Data General, BBN | 1989 | 1993 |
| Hans-Werner Braun | Merit,San Diego Supercomputer Center (SDSC) | 1990? | 1994 |
| Barry Leiner | RIACS, Advanced Decision Systems (ADS), University Space Research Association (USRA) | 1990? | 1994 |
| Keith Lantz | Olivetti Research | 1989 | ? |
| Deborah Estrin | USC | 1989 | ? |
| Dan Lynch | Interop | 1990? | 1994 |
| Jon Postel | USC Information Sciences Institute (ISI) | 1990? | 1993 |
| Elise Gerich | Merit | 1993 | 1997 |
| Jun Murai | WIDE | 1993 | 1995 |
| Yakov Rekhter | IBM Research | 1993 | 1997 |
| John Romkey | ELF Communications | 1993 | 1995 |
| Dave Sincoskie | Bellcore | 1993 | 1995 |
| Mike St Johns | ARPA | 1993 | 1995 |
|  | Network AssociatesNominum | 2002 | 2004 |
| Phill Gross | NRI | 1994 | 1996 |
| Christian Huitema | INRIA | 1991 | 1996 |
| Robert Elz | University of Melbourne | 1994 | 1998 |
| Brian Carpenter | IBM | 1994 | 2002 |
| Lixia Zhang | Xerox PARC | 1994 | 1996 |
|  | UCLA | 2005 | 2009 |
| Steve Crocker | USC | 1994 | 1996 |
| J. Allard | Microsoft | 1995 | 1997 |
| Robert Moskowitz | Chrysler | 1995 | 1999 |
| Erik Huizer | SURFnet | 1995 | 1999 |
| Chris Weider | Microsoft | 1995 | 1997 |
| Steve Bellovin | AT&T | 1996 | 2002 |
| Jon Crowcroft | UCL,Cambridge | 1996 | 2002 |
| John Klensin | MCI,MCI Worldcom,AT&T | 1996 | 2002 |
| (Independent) | 2009 | 2011 |
| Radia Perlman | Sun Microsystems | 1996 | 1998 |
| Steve Deering | Cisco | 1997 | 2002 |
| Tony Hain | Microsoft | 1997 | 2001 |
| Cyndi Jung | 3Com | 1997 | 1999 |
| Charlie Perkins | Sun | 1997 | 1999 |
| Ned Freed | Innosoft | 1998 | 2000 |
| Tim Howes | Netscape | 1998 | 2000 |
| Harald Alvestrand | Cisco | 1999 | 2001 |
| Ran Atkinson | Extreme Networks | 1999 | 2003 |
| Rob Austein | Integrated Systems, Internetshare, Grunchweather Associates,Internet Systems Consortium | 1999 | 2005 |
| Geoff Huston | Telstra,APNIC | 1999 | 2005 |
| Henning Schulzrinne | Columbia University | 2000 | 2002 |
| Leslie Daigle | ThinkingCat Enterprises,Verisign,Cisco,Internet Society | 2000 | 2008 |
| Fred Baker | Cisco | 2001 | 2003 |
| Sally Floyd | ACIRI,ICIR | 2001 | 2005 |
| Ted Hardie | Nominum,Qualcomm | 2002 | 2003 |
| Charlie Kaufman | IBM,Microsoft | 2002 | 2004 |
| James Kempf | NTT | 2002 | 2004 |
| Eric Rescorla | RTFM | 2002 | 2008 |
| Bernard Aboba | Microsoft | 2003 | 2007 |
| Jun-ichiro Itojun Hagino | IIJ | 2003 | 2005 |
| Mark Handley | ICIR,UCL | 2003 | 2005 |
| Patrik Fältström | Cisco | 2003 | 2006 |
| Bob Hinden | Nokia | 2004 | 2006 |
| Pete Resnick | Qualcomm | 2004 | 2006 |
| Jonathan Rosenberg | dynamicsoft,Cisco | 2004 | 2006 |
| Loa Andersson | Acreo | 2005 | 2009 |
| Kurtis Lindqvist | Netnod | 2005 | 2009 |
| David Meyer | Cisco / University of Oregon | 2005 | 2007 |
| Pekka Nikander | Ericsson / Helsinki University of Technology | 2005 | 2006 |
| David Oran | Cisco | 2006 | 2010 |
| Olaf Kolkman | NLnet Labs | 2006 | 2012 |
| Kevin Fall | Intel | 2006 | 2008 |
| Elwyn Davies | Folly Consulting | 2006 | 2008 |
| Dave Thaler | Microsoft | 2006 | present (\*\*) |
| Barry Leiba | IBM | 2007 | 2009 |
| Danny McPherson | Arbor Networks | 2007 | 2013 |
| Gonzalo Camarillo | Ericsson | 2008 | 2010 |
| Stuart Cheshire | Apple | 2008 | 2010 |
| Gregory Lebovitz | Juniper | 2008 | 2010 |
| Andrew Malis | Verizon | 2008 | 2010 |
| Marcelo Bagnulo | University Carlos III of Madrid | 2009 | 2011 |
| Vijay Gill | Google | 2009 | 2010 |
| Jon Peterson | Neustar | 2009 | 2013 |
| Bernard Aboba | Microsoft | 2010 | present (\*) |
| Ross Callon | Juniper | 2010 | present (\*) |
| Spencer Dawkins | Huawei | 2010 | present (\*) |
| Andrei Robachevsky | RIPE / ISOC | 2010 | 2012 |
| Hannes Tschofenig | Nokia Siemens Networks | 2010 | present (\*) |
| Alissa Cooper | Center for Democracy and Technology | 2011 | present (\*\*) |
| Joel Halpern | Ericsson | 2011 | present (\*\*) |
| David Kessens | Nokia Seimens Networks | 2011 | 2013 |
| Jari Arkko | Ericsson | 2012 | 2013 |
| Marc Blanchet | Viagenie | 2012 | present (\*) |
| Russ Housley | Vigilsec | 2013 | present (\*\*) |
| Eliot Lear | Cisco | 2013 | present (\*) |
| Xing Li | Tsinghua University/CERNET Center | 2013 | present (\*\*) |
| Andrew Sullivan | Dyn, Inc | 2013 | present (\*\*) |

\*  Term ends March 2014

\*\*  Term ends March 2015

**IAB Chairs**

|  |  |  |  |
| --- | --- | --- | --- |
| **Member** | **Organization (at time of service)** | **From** | **To** |
| Dave Clark | MIT | 1981 | 7/1989 |
| Vint Cerf | CNRI | 7/1989 | 7/1991 |
| Lyman Chapin | Data General, BBN | 7/1991 | 3/1993 |
| Christian Huitema | INRIA | 3/1993 | 7/1995 |
| Brian Carpenter | IBM | 7/1995 | 3/2000 |
| John Klensin | AT&T | 3/2000 | 3/2002 |
| Leslie Daigle | Verisign, Cisco | 3/2002 | 3/2007 |
| Olaf Kolkman | NLNetlabs | 3/2007 | 3/2011 |
| Bernard Aboba | Microsoft | 3/2011 | 3/2013 |
| Russ Housley | Vigilsec | 3/2013 | present |

**IAB Ex-Officio and Liaison Members**

**IETF Chair (Full Member, with a couple exceptions)**

|  |  |  |
| --- | --- | --- |
|  | **From** | **To** |
| Mike Corrigan (\*) | 1986 | 1987 |
| Phill Gross (\*) | 1988 | 1993 |
| Paul Mockapetris | 1994 | 1995 |
| Fred Baker | 1996 | 2000 |
| Harald Alvestrand | 2001 | 2005 |
| Brian Carpenter | 2005 | 2007 |
| Russ Housley | 2007 | 2013 |
| Jari Arkko | 2013 | present |

*(\*) Note: Prior to 1993, the IETF chair was appointed by the IAB and served on the IAB as a regular member.*

**IRTF Chair (Ex-Officio)**

|  |  |  |
| --- | --- | --- |
|  | **From** | **To** |
| Dave Clark (\*) | 1989 | 3/1992 |
| Jon Postel (\*) | 3/1992 | 2/1995 |
| Abel Weinrib | 2/1995 | 9/1999 |
| Erik Huizer | 9/1999 | 12/2001 |
| Vern Paxson | 12/2001 | 3/2005 |
| Aaron Falk | 3/2005 | 3/2011 |
| Lars Eggert | 3/2011 | present |

*(\*) Note: Prior to 1993, the IRTF chair was appointed by the IAB and served on the IAB as a regular member.*

**RFC Editor Liaison**

|  |  |  |
| --- | --- | --- |
|  | **From** | **To** |
| Jon Postel |  | 1998 |
| Joyce Reynolds | 1999 | 2006 |
| Sandy Ginoza | 2006 | 2010 |
| Glenn Kowack | 2010 | 2011 |
| Olaf Kolkman | 2011 | 2012 |
| Heather Flanagan | 2012 | present |

**ISOC Liaison**

|  |  |  |
| --- | --- | --- |
|  | **From** | **To** |
| Larry Landweber | 1995 | 1996 |
| Don Heath | 1996 | 2000 |
| Lynn St Amour | 2000 | 2011 |
| Mat Ford | 2011 | present |

**IESG Liaison to the IAB**

|  |  |  |
| --- | --- | --- |
|  | **From** | **To** |
| Bob Hinden | 6/1993 | 3/1994 |
| Allison Mankin | 7/1995 | 3/1997 |
| Keith Moore | 8/1997 | 3/2000 |
| Randy Bush | 3/2000 | 8/2001 |  |
| Erik Nordmark | 8/2001 | 5/2003 |  |
| Bert Wijnen | 5/2003 | 3/2006 |  |
| Ted Hardie | 3/2006 | 6/2006 |  |
| Dan Romascanu | 6/2006 | 3/2007 |  |
| Mark Townsley | 3/2007 | 7/2008 |  |
| Lars Eggert | 7/2008 | 7/2009 |  |
| Ron Bonica | 7/2009 | 3/2011 |  |
| Sean Turner | 2/2011 | 3/2012 |  |
| Robert Sparks | 3/2012 | 3/2013 |  |
| Barry Leiba | 3/2013 | present |  |

**Executive Director (Ex-Officio)**

|  |  |  |
| --- | --- | --- |
|  | **From** | **To** |
| Bob Braden | 1983 | 1994 |
| Abel Weinrib | 1994 | 3/2001 |
| Leslie Daigle (\*) | 3/2001 | 3/2002 |
| Geoff Huston (\*) | 3/2002 | 3/2005 |
| Rich Draves | 4/2005 | 3/2006 |
| Phil Roberts | 4/2006 | 4/2007 |
| Joe Abley | 4/2007 | 3/2008 |
| Dow Street | 3/2008 | 3/2012 |
| Mary Barnes | 3/2012 | present |

*(\*) Serving IAB Member and Executive Director.*

**IAB Liaison to the IESG**

Two IAB members serve as liaison to the IESG, namely the IAB chair (ex-officio) and another designated members. The designated liaisons have been:

|  |  |  |
| --- | --- | --- |
| **Member** | **From** | **To** |
| Lyman Chapin | 7/1991 | 3/1993 |
| Christian Huitema | 3/1993 | 5/1993 |
| Yakov Rekhter | 5/1993 | 3/1996 |
| Robert Elz | 3/1996 | 4/1998 |
| John Klensin | 4/1998 | 8/1998 |
| Charlie Perkins | 8/1998 | 3/1999 |
| Steve Deering (backup) | 8/1998 | 3/1999 |
| Ned Freed | 3/1999 | 3/2000 |
| Steve Bellovin | 4/2000 | 3/2002 |
| Rob Austein | 3/2002 | 3/2005 |
| David Meyer | 3/2005 | 3/2007 |
| Loa Andersson | 3/2007 | 3/2009 |
| Dave Oran | 3/2009 | 3/2010 |
| Danny McPherson | 3/2010 | 9/2010 |
| Hannes Tschofenig | 9/2010 | 9/2011 |
| Joel Halpern | 9/2011 | present |