



Portable Computer and  
Communications Association

<http://www.pcca.org>

# *Newsletter*

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## **BOARD ELECTIONS**

We are in the process of electing a new board of members. The board of directors sets the strategic direction of the PCCA, manages the finances and operations of the PCCA and oversees the working committees (e.g., Standards and Architecture Committee, Wireless Workshop Task Force). The current term of the board expires on March 31. Nominees for the new board are as follows:

### Executive Members:

Boris Fridman, Broadbeam  
Masahiro Hataguchi, Mobile Computing Promotion Consortium  
Mike Hlavaty-Laposa, AT&T Wireless  
Robert O'Hara, Microsoft  
Jim Panian, Sony Ericsson  
Peter Rysavy, Rysavy Research  
Andrew Seybold, Outlook4Mobility  
Ronald M. Smith, Intel

### Associate Members:

Steve Medina, Toshiba America  
Terrill Moore, MCCI  
Dave Robins, Motient  
Emil Sturniolo, NetMotion Wireless  
Richard Wodzianek, Sierra Wireless

On March 4 we mailed ballots to members of record. We would appreciate members competing the ballots and returning them to us by the deadline of March 25, 2002. We are looking forward to a strong and active board.

## **NEXT MEETING - APRIL 24, 2002**

### **Background**

The next meeting of the PCCA standards and architecture committee will be on April 24, 2002. The meeting will be hosted by Qualcomm, and will be held by the San Francisco airport in California.

We are soliciting technical presentations and contributions for the meeting. The topics of interest include CDMA2000 (any aspect), wireless virtual private networks (VPNs), VPN compatibility with wireless networks and wireless security. VPNs play an important role with wireless networks as they offer customers an end-to-end (or nearly so) security solution. VPNs also address security concerns for most wireless networks, including:



- ❑ Not all wireless technologies encrypt the airlink. For instance, encryption is not available for CDMA2000 networks. With GPRS, it is an option, but not all carriers plan to support it. Furthermore, there is no easy way for customers to know whether encryption is enabled.
- ❑ Even with encryption of the airlink, cellular data networks do not guarantee data integrity, meaning that users cannot be certain that the data they receive is the data that was actually transmitted from the network.

VPNs can address both these concerns. For operation over wireless networks, there are two types of VPNs. The first type consists of products developed specifically for mobile/wireless applications (e.g. products from PCCA members Ecutel and NetMotion Wireless.) The second category consists of products designed to run over the Internet at large, including products from the likes of Cisco, CheckPoint Software, Intel, Microsoft and Nortel. We are interested in examining both categories in this meeting.

Some of the factors that we believe could affect VPNs include: the overhead of VPN protocols; private IP addresses and network address translation; temporary loss of connections that can result in a new IP address being assigned; packet-data session timeouts; and other factors that we intend to identify. Through hands-on testing on the 23<sup>rd</sup> and detailed technical discussion on the 24<sup>th</sup>, we plan to gain insight into these items.

## **Preliminary Workshop Agenda (April 23)**

April 23, 2002.

Verizon Wireless is hosting their CDMA2000 1XRTT network. Our testing will emphasize VPN compatibility (as well as general connectivity) with this network. Sierra Wireless and Kyocera will be providing wireless devices. Anybody interested in participating in this workshop should contact Ron Smith at 503-456-1649, [ronald.m.smith@intel.com](mailto:ronald.m.smith@intel.com).

## **Preliminary Meeting Agenda (April 24)**

- ❑ Hosting company presentation
- ❑ PCCA business items
- ❑ CDMA2000 presentations
- ❑ Wireless security presentations
- ❑ Technical discussion
- ❑ Development of recommendations and action items.



## Registration

If you are interested in participating in this meeting, please register by sending e-mail to the PCCA. Please include your name, title, company name, e-mail address and phone number.

Organizations that are not PCCA members, and that have not attended prior PCCA meetings, may attend either the workshop or PCCA meeting for a fee of \$400 per person, or both for \$500. This fee is waived for companies specifically invited to participate.

## Further Details

Visit our web site at <http://www.pcca.org>. Meeting agendas are located in the News and Activities section.

## MEMBERSHIP UPDATE

By Gloria Kowalski.

The PCCA welcomes IBM the newest member since the last issue of this newsletter:

**IBM**, Associate level. <http://www.ibm.com>. Representative: Peter Lee, Senior Technical Staff Member.

I would like to remind members that they need a user ID and password to access the members-only section of our website. Please contact me the PCCA if you do not have a user ID and password.

The PCCA would like to thank its members for their continued support and participation.

## LAST MEETING, LAS VEGAS, JANUARY 15, 16

On January 15, we held our third GPRS interoperability workshop, using services provided by Cingular Wireless and AT&T Wireless. See Ron's section below for further details.

This PCCA meeting on January 16 focused on WLAN/cellular network integration. The meeting was well attended with thirty-seven people from the following companies and organizations participating:

AT&T Wireless, Boeing, Cingular Wireless, Ecutel, Ericsson, Ericsson Canada, Flash Networks, Hughes Network Systems, Intel, Lucas Valley Technologies, Megisto Systems, MCCI, Microsoft, Motient, Motorola, NetMotion Wireless, Nextel, Nokia, Novatel Wireless, Qualcomm, Rysavy Research, Siemens, Sierra Wireless, Strix Systems, The Open Group, Toshiba, WideRay and Xybec Solutions.

Presentations included:



- ❑ Hosting company presentation, Emil Sturniolo, NetMotion Wireless
- ❑ Review Of Interoperability Workshop Prior Day, Ron Smith, Intel
- ❑ AT Commands Via IP, Subcommittee Report, Atis Freimanis, Motorola
- ❑ "A Significant Step Towards Widespread Adoption Of Broadband Services", James Scales, Nokia.
- ❑ "Secure mobile communications for heterogeneous networks", Dzung Tran, Ecutel
- ❑ "Standards-based Mobile Operator Seamless Mobility", Ken Rehbehn, Megisto Systems

We had detailed discussions during and after these presentations. We divided the issues and areas of examination into mobility, security and authentication, session persistence, network and directory services.

Notes, presentations and the minutes (which include meeting conclusions) are available in the members' section of the PCCA web page at <http://www.pcca.org/private/members.htm>. If your company is a PCCA member and you do not have a user ID/pwd, please send a request to the PCCA. If you do not know whether your company is a member, check <http://www.pcca.org/membership/members.htm>.

Thanks to NetMotion Wireless for hosting this meeting.

## **WIRELESS WORKSHOP TASK FORCE (WWTF) UPDATE**

By Ron Smith, WWTF chairman.

PCCA members completed their third wireless interoperability workshop at Las Vegas in January, in conjunction with the PCCA quarterly meeting. Twenty-seven participants from seventeen companies spent a day testing their phones, cards, and software with Cingular's GPRS network. Ericsson, Motorola, Novatel Wireless, and Sierra Wireless provided phone and cards for participants; ATTWS also provided subscriber identity modules (SIMs) for their GPRS network. Besides testing, there were technical discussions on GPRS Roaming / VPN Compatibility and Connection Managers. Overall feedback on the workshop was positive, as most participants were able to derive benefit from testing their products with GPRS, and otherwise gaining a more in-depth knowledge of the technology. The negative was that we ran out of time. For a more complete review, see the Workshop Review in the PCCA Members area.

The next workshop is already being planned and will be held on April 23<sup>rd</sup> in the Bay Area, preceding the PCCA meeting on the 24<sup>th</sup>. It will focus on CDMA2000/1XRTT, with coverage, phones, and cards provided by Verizon, Kyocera, and Sierra Wireless. There are a couple of changes being considered for this workshop: One is to not limit participation to interoperability testing, but open it up to more PCCA members by making it also a hands-on



technical forum. Another is to make the workshop more integral with the PCCA meeting by having presentations and discussion focusing on the same technology.

If you are interested in participating in the next workshop, either for interoperability testing or gaining real-world experience of 1XRTT technology, please contact me by email or phone.

Regards,  
Ron

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## FUTURE MEETINGS

The PCCA meets once per quarter. Beyond the meeting on April 23/24, we are planning on additional meetings in July 16 and in October. Any company wishing to host a meeting, please send an e-mail to the PCCA. Why would you want to host a meeting? There are two reasons. First, it is often less expensive to host a meeting in your local area than to travel to one. Second, the hosting company is invited to present information about its products and services in a host presentation at the beginning of the meeting.

For the latest information on PCCA meetings and other events, see <http://www.pcca.org/news/news.htm>.

## SUMMARY OF CURRENT WORK

This section summarizes the work currently underway by the standards and architecture committee.

- ❑ **Quarterly Meetings.** These meetings are used to plan our work, provide updates on work projects, and then focus in depth on technical issues facing the industry. At each meeting we analyze one or more major topics using a symposium format that consists of technical presentations followed by discussion.
- ❑ **Interoperability Workshops.** The PCCA regularly holds interoperability workshops that address usage, development, and deployment of mobile devices, networks, and applications. We have held three GPRS workshops so far, using the VoiceStream, AT&T Wireless and Cingular networks. We are planning CDMA2000 workshops for 2002.
- ❑ **Wireless Extensions to NDIS.** These objects, which now include support for GPRS, are available in Microsoft Windows. We are working with Microsoft to examine how the OS, protocol stacks, and applications can best take advantage of these objects. Future appendices will define support for UMTS and CDMA2000.



- **AT Commands via IP (ATVIP).** We have an active technical subcommittee, chaired by Atis Freimanis of Motorola, to specify how AT commands can be transported over IP protocols between a computer and modem. This is important because standards define AT commands for control, but most user sessions are IP based. An ATVIP mechanism will allow in-band signaling.

## ABOUT THIS NEWSLETTER

This is the newsletter of the Portable Computer and Communications Association. Effective 2000, this newsletter has been distributed via e-mail. The purpose of this newsletter is to keep PCCA members current with the activities and directions of the PCCA. This newsletter is published on a quarterly basis and is distributed to everybody on the PCCA mailing list, including both PCCA members and non-members. Prior copies of this newsletter are available at <http://www.pcca.org/news/news.htm>.

We welcome contributions. If you have any topics or articles you would like to contribute, please contact us. The editor of this newsletter and chair of the PCCA Standards and Architecture Committee is Peter Rysavy, <http://www.rysavy.com>, 1-541-386-7475. For questions about PCCA membership, please contact PCCA Director Gloria Kowalski, <http://www.pcca.org>, 1-541-490-5140.