



Portable Computer and
Communications Association

Updated March 12, 2014.

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Mobile Network and Device Virtualization - Workshop

March 18, 2014

Intel Corporation

Building C6

5000 W. Chandler Blvd

Chandler, AZ 85226, USA

Hosted by [Intel Corporation](#)

[Map of location here.](#)

Chair: Peter Rysavy, [Rysavy Research](#)

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BACKGROUND

Virtualization will transform network and computer architectures. Mobile operators and infrastructure vendors are aggressively pursuing Network Function Virtualization (NFV) and Software Defined Networking (SDN) techniques to reduce network costs and to improve scalability. Meanwhile, virtualization methods in customer devices improves security, separates business and personal functions, and enables multiple operating environments.

The purpose of this one-day PCCA workshop is to assess the current state and future directions of virtualization, including technical approaches, standards, expected adoption, benefits versus costs, and vendor support.

Topics under consideration include:

- The different industry groups developing and supporting NFV.
- Current degree of adoption and expectations for the future.
- Role of NFV versus SDN and integration of the two.
- How NFV relates to cloud computing.
- NFV benefits: use of general-purpose servers, life cycle management, economies of scale, reduced equipment costs, time to market, service deployment, openness, capacity management, etc.
- Most promising NFV use cases.
- Trends in cloud Radio-Access networks and most promising scenarios.

- NFV challenges including interoperability, performance, integration with legacy networks.
- Role of virtualization in mobile devices and customer-premises equipment.
- Virtualization already used in mobile end systems and future potential.

PCCA workshops emphasize technical depth combined with market and business perspective, and keep commercial content to a minimum. The format consists of presentations on key topics followed by Q&A discussion and panel discussions.

AGENDA

**Workshop. Tuesday, March 18, 2014
8:00 AM to 4:00 PM.**

The preliminary agenda is as follows:

Agenda and schedule subject to change.

7:30 to 8:20 Registration, Continental Breakfast provided

8:20 to 8:30 Peter Rysavy, Executive Director, PCCA. Introductions. PCCA Workshop Schedule and Association Update.

8:30 to 9:00 John Healy, General Manager, SDN Division, Intel. Host Presentation.

9:00 to 9:45 Satyajit Doctor, President, Award Solutions. Vision of Future Communications Service Provider Networks. Technology drivers, cloud computing details, network functions virtualization details, software defined networking details, end-to-end transformed network.

9:45 to 10:00 Break

10:00 to 10:45 Davide Ricci, Wind River. High Performance, Open Standard Virtualization with NFV and SDN.

10:45 to 11:30 Vance Heredia, Director – Cloud Strategy, Solutions and Services, Ericsson North America. Virtualization Models. A holistic framework on NFV/SDN spanning RAN and core network, including abstraction layers, needed interfaces, and context beyond the networking industry.

11:30 to 12:45 Lunch Provided by Intel

12:45 to 1:30 Nick Stavrakos, Distinguished Engineer and CTO office member, Citrix. Considerations in Trialing NFV. It's a matter of when, not if, for NFV. Like many advances in technology, the road to NFV will experience growing pains and will take time. Unlike the fast paced IP world where virtualization has been adopted quickly, the telco world is known for being more methodical and slow paced. The first steps toward NFV adoption will be through proof of concept (POC) trials by mobile network operators - which have already been taking place well ahead of the ETSI ISG final report. During this presentation we will explore these trials and discuss what operators are hoping to learn, how we expect them to evolve, and share our thoughts on how new telcos can begin their own trials as they look to adopt the NFV concept.

1:20 to 2:15 Travis Lanier, Director, Product Management, Qualcomm Technologies. Virtualization in Mobile and Consumer Devices. Virtualization is more commonly known for its use in the enterprise environment. However, mobile and consumer devices have rapidly increased in capability and can now support this technology for a variety of tasks. This quick survey will include: Evolution of support

in mobile devices; Use cases; Issues in supporting a consumer/mobile vs. enterprise device.

2:15 to 2:30 Break

2:30 to 4:00 Panel Discussion. The Future of Virtualization in Mobile Networks.

What are the biggest barriers to adoption of NFV/SDN and how can the industry overcome these? Will NFV/SDN transform wireless networks or will it play just a point role for select functions?

Panelists include:

Doug Eng, Distinguished Technical Architect, Technology & Network Operations, **AT&T**.
Nick Stavrakos, Distinguished Engineer and CTO office member, **Citrix**.
Valerie Young, Strategic Software Technologist/Software Wireless PLM, **Intel**.
Dr. Venkat Rayapati, President & CEO, **SAI Technology**.
Francisco-Javier Ramón Salguero, Head of Network Virtualisation Labs, **Telefonica**.

WORKSHOP LOCATION

The workshop will be held at:

Intel Corporation
Building C6
5000 W. Chandler Blvd
Chandler, AZ 85226

[Map of facility is available here.](#)

HOTEL AND TRAVEL INFORMATION

We will provide a list of nearby hotels shortly.

Nearby hotels include the following. We do not have a room block.

Sheraton Wild Horse Pass Resort & Spa.
<http://www.wildhorsepassresort.com/>
5594 West Wild Horse Pass Blvd.
Chandler, AZ 85226
1-602-225-0100 or 1-800-325-3535

SpringHill Suites Phoenix Chandler/Fashion Center
<http://www.marriott.com/hotels/hotel-rooms/phxcs-springhill-suites-phoenix-chandler-fashion-center/>
225 N. Metro Boulevard Chandler, AZ 85226
1-480-726-7666

Residence Inn Phoenix Chandler/Fashion Center
<http://www.marriott.com/hotels/fact-sheet/travel/phxcd-residence-inn-phoenix-chandler-fashion-center/>
200 North Federal Street Chandler, AZ 85226
1-480-782-1551

Courtyard Phoenix Chandler/Fashion Center
<http://www.marriott.com/hotels/travel/phxcf-courtyard-phoenix-chandler-fashion-center/>
1100 South Price Road Chandler, AZ 85286
1-480-855-8600

Fairfield Inn & Suites Phoenix Chandler/Fashion Center
<http://www.marriott.com/hotels/travel/phxff-fairfield-inn-and-suites-phoenix-chandler-fashion-center/>

[center/](#)

1100 South Price Road Chandler Arizona 85286 USA
1-480-963-5300

For assistance with travel, the PCCA recommends [Tom Smith Travel](#), 503-477-5341 or 877-604-3107.

REGISTRATION

The registration deadline is one week before the workshop.

Workshops are intended primarily for PCCA members. However, non-member organizations may attend for a fee of \$325 per person if registering one month or more before the workshop, otherwise \$375 if less than a month before the workshop. This fee can be applied towards future membership. Executive-level members may send five people, associate-level members may send two people and affiliate-level members may send one person without incurring meeting charges.

There is no attendance charge for members of the press.

If you intend to come, please register soon.

[Click here to register for the meeting using our secure Web page.](#)

[Click here to see a current list of members.](#)

INFORMATION FOR PRESENTERS AND PANELISTS

The following information is for people presenting at this PCCA workshop:

- Presentations: Approximately 45 minutes including Q&A discussion for main presentations. Panel presentations typically 10 minutes long, slides optional.
- Presenters must provide their presentations (PDF or PPT) at least one week prior to the workshop to allow for copying to the members area of the PCCA Web site, as well as to allow detailed questions for discussion.
- This is a technical audience (e.g., engineering and program managers), so please make the presentations technical. Emphasis should be on industry and technology at large, versus selling your product (limit of 3 slides). Consider items such as compatibility, technical alternatives, standardization, deployment considerations, interoperability, certification and adoption.
- Generally, a dynamic and attentive audience of key industry stakeholders attend each workshop, representing a broad spectrum of the mobile computing industry, including operators, infrastructure vendors, device vendors, middleware providers and application developers.
- We will provide a video projector and computer for presenting. Presenters should use their own presentation templates.
- Since PCCA workshops are considered public meetings, please do not include any confidential or proprietary information. Please do not mark your presentations with any terminology indicating confidential or proprietary information.

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