



Next Generation Networks: The Advent of Open Operating Systems

Featured Speakers

Historical Overview on the Evolution of Software-defined Networking, ECOMP, ONAP and Indigo

- **Andre Fuetsch**, CTO and President, AT&T Labs

Andre Fuetsch

CTO and President, AT&T Labs

About Fuetsch

- Andre Fuetsch is responsible for delivering the architecture and design of AT&T's future networking evolution. This transformation will utilize software-defined networking and network function virtualization to deliver products and services to the customer with greatly reduced time to market and significant operational efficiencies.
- He leads a team of over 2,000 engineers and computer scientists working on programs encompassing both the business and mass market customer segments.

About AT&T Labs

- AT&T Labs is the research & development division of AT&T.
- Since its creation in 1996, AT&T Labs has been issued over 2000 US patents.

Panel 1: ONAP: What is it and why?

- **Peter Rysavy**, President, Rysavy Research (Moderator)



- **Dr. Eyal Felstaine**, Chief Technology Officer, AMDOCS
- **Arpit Joshipura**, General Manager, Networking, Linux Foundation
- **Sandra Rivera**, Senior Vice President and General Manager of Network Platforms Group, Intel

Peter Rysavy

President, Rysavy Research

About Rysavy

- Peter has specialized in wireless technology since 1993. Projects include analysis of spectrum requirements for mobile broadband, reports on the evolution of wireless technology, evaluation of wireless technology capabilities, strategic consultations, system design, articles, courses and webcasts, network performance measurement, test reports, and acting as expert in patent-litigation cases. Clients include more than 90 organizations.
- Peter is a broadly published expert on the capabilities and evolution of wireless technology.
- From 1988 to 1993, Peter was vice-president of engineering and technology at Traveling Software (later renamed LapLink) where projects included LapLink, LapLink Wireless, and connectivity solutions for a wide variety of mobile platforms. Prior to Traveling Software, he spent seven years at Fluke Corporation where he worked on data-acquisition products and touch-screen technology.
- From 2000 to 2016, Peter was the executive director of the Wireless Technology Association (incorporated as the Portable Computer and Communications Association), an industry organization that evaluates wireless technologies, investigates mobile communications architectures, and promotes wireless interoperability.

About Rysavy Research

- Rysavy Research, LLC analyzes wireless technologies including Wi-Fi, Bluetooth, 1G to 5G, LTE and LTE-Advanced, wireless security, M2M, Internet of Things (IoT), mobile commerce, and mobile platforms.



Dr. Eyal Felstaine

Chief Technology Officer, AMDOCS

About Felstaine

- As CTO, Dr. Eyal Felstaine is responsible for planning and developing Amdocs' technology vision, as well as the architecture and roadmap of the entire product portfolio.
- Previous executive roles include Amdocs' Head of Orchestration group, where Eyal led the ECOMP co-creation collaboration with AT&T around their software-centric Domain 2.0 vision of achieving 75% virtualization in their network by 2020.
- Eyal spearheaded the establishment of Amdocs' NFV group and was responsible for shaping Amdocs' product vision, strategy, and long-term roadmap for Network Cloud Service Orchestration and NG OSS.
- He has co-founded and held CXO positions in several successful startups in the communications and evolved packet core space. These include Traffix Systems, acquired by F5 [NASDAQ: FFIV], Allot Communications [NASDAQ: ALLT] and SANRAD, acquired by OCZ Technology [NASDAQ: OCZ] (OCZ was later acquired by Toshiba Japan). Prior to joining Amdocs, Eyal served as VP of Radware's Cyber Security Division [NASDAQ: RDWR]

About Amdocs

- Amdocs is a leading software & services provider to the world's most successful communications and media companies. As our customers reinvent themselves, we enable their digital and network transformation through innovative solutions, delivery expertise and intelligent operations.

Arpit Joshipura

General Manager, Networking, Linux Foundation

About Joshipura

- Arpit brings over 25 years of networking expertise and vision to The Linux Foundation with technical depth and business breadth.
- Joshipura has instrumented and led major industry disruptions across Enterprises, Carriers and Cloud architectures including IP,



Broadband, Optical, Mobile, Routing, Switching, L4-7, Cloud, Disaggregation, SDN/NFV, Open Networking and has been an early evangelist for open source.

- Arpit has served as CMO/VP in startups and larger enterprises including Prevoty, Dell/Force10, Ericsson/Redback, ONI/CIENA and BNR/Nortel leading strategy, product management, marketing, engineering and technology standards functions. Arpit has served as CMO/VP in startups and larger enterprises including Prevoty, Dell/Force10, Ericsson/Redback, ONI/CIENA and BNR/Nortel leading strategy, product management, marketing, engineering and technology standards function.

About the Linux Foundation

- The Linux Foundation is a non-profit technology trade association chartered to promote, protect and advance Linux and collaborative development and support the "greatest shared technology resources in history."

Sandra Rivera

Senior Vice President and General Manager of Network Platforms Group,
Intel

About Rivera

- Sandra L. Rivera is senior vice president and general manager of the Network Platforms Group at Intel Corporation. She is responsible for the business group charged with providing innovative technology and solutions to the networking industry.
- During her Intel career, she has held various marketing, business development and general management roles focused on network infrastructure. Before joining Intel, Rivera co-founded and served as president of The CTI Authority, served as president of the computer telephony division at Catalyst Telecom and held sales leadership roles at Dialogic. She started her career as an engineer at Westinghouse Electric Corporation.



- Rivera holds a bachelor's degree in electrical engineering from Pennsylvania State University. She sits on the boards of OPNFV, TIA, and ATIS. Rivera is also a member of the Intel Hispanic Leadership Council.

About the Intel

- Intel Corporation is an American multinational corporation and technology company headquartered in Santa Clara, California that was founded by Gordon Moore and Robert Noyce.
- Intel is the world's largest and highest valued semiconductor chip makers based on revenue, and is the inventor of the processors found in most personal computers (PCs).

The Connected Lifestyle

- **Glenn Lurie**, CEO and President, AT&T Mobility

Glenn Lurie

President and CEO, AT&T Mobility and Consumer Operations

About Lurie

- Glenn Lurie is President and CEO of AT&T Mobility and Consumer Operations. He is responsible for the operations of the mobility business as well as the overall customer experience across all consumer services including entertainment, video, home broadband and wireless – which includes all sales and distribution, service and operations of wireless.
- Lurie started his technology career in the early days of the wireless industry at McCaw Cellular after playing professional soccer in Cleveland, Atlanta, Milwaukee and Portland. Over the past two decades, he helped usher in the modern smartphone era by leading AT&T's negotiations to introduce the first iPhone and iPad.
- Since then, Lurie led the formation of new businesses at AT&T including the company's Internet of Things (IoT) business which now boasts 30 million connections, including 10 million cars. He also built AT&T Digital Life, the company's home automation and security business, and launched Aio Wireless - now Cricket Wireless.



- Lurie has also served as President of National Distribution, President of AT&T's West region, Regional Vice President for the California/Hawaii region and Vice President and General Manager for the Los Angeles/Southern California market.

About AT&T Mobility

- AT&T Mobility is the second largest wireless telecommunications provider in the United States and Puerto Rico.

Panel 2: What new services, products and applications does the IoT enable and how it will impact consumers & businesses?

- **Lydia Beyoud**, Reporter, Bloomberg BNA
- **Austin Ashe**, Co-Founder and General Manager, GE
- **Meredith Attwell Baker**, President & CEO, CTIA
- **Manu Namboodiri**, Senior Director Business Development Smart Cities, Delphi
- **Michael Zeto**, General Manager, AT&T Smart Cities

Lydia Beyoud

Reporter, Bloomberg BNA

About Beyoud

- Lydia Beyoud is a tech & telecom reporter and literary translator based in Washington, D.C., where she works for Bloomberg BNA, a subsidiary of Bloomberg News.
- From Capitol Hill to the Federal Communications Commission to the courthouse, Beyoud covers business, legal, regulatory and political news related to the telecommunications industry: from the latest mega-mergers to net neutrality to spectrum auctions, and lots more.
- In the past, she has covered tax, done some investigative journalism with the Investigative Reporting Workshop and I've written a few book and film reviews along the way.
- She has contributed to Bloomberg News, Bloomberg Businessweek, the Investigative Reporting Workshop, New American Media, the Oregonian newspaper, the Middle East Journal, Portland Monthly



magazine, Global Voices Online, as well as to the literary journals Wasafiri and Words Without Borders.

About Bloomberg BNA

- Bloomberg BNA, formerly known as The Bureau of National Affairs, Inc. and BNA, is a subsidiary of Bloomberg L.P. and a source of legal, tax, regulatory, and business information for professionals. It is headquartered in Arlington County, Virginia.
 - Bloomberg BNA produces more than 350 news publications in a broad array of topics. The company offers solutions to practitioners in the areas of law, tax and accounting, human resources and payroll, and environment, health and safety.
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Austin Ashe

Co-Founder and General Manager, GE

About Furman

- Austin Ashe is the Co-founder and General Manager of GE's Intelligent Cities business unit, which is part of Current, Powered by GE. In this role, he leads the sales channel, marketing, alliances, and engineering efforts required to deliver the worlds most advanced IoT sensor platform for cities, called CityIQ.
- Since the inception of the business only 3yrs ago (2014), Austin and his team have helped build the Smart Cities 2.0 market place, a cutting edge IoT technology needed to enable smart city application development, and the business model required to scale.
- Prior to being appointed General Manager, Austin held multiple roles within the Intelligent Cities, including Global Product Manager, as well as VP of Sales.
- Ashe has held multiple roles within his 10yr tenure at GE, including LED Driver Global Product Manager, Regional Sales Manager, Government Relations Operations Manager, Area Sales Manager, and Regional Environmental, Health, & Safety leader.
- Before joining GE, Austin held manufacturing and engineering roles at The Boeing Company, Haliburton Energy Services , Hewlett-Packard (HP), Lynntech's Fuel Cell division, and NASA.

About the GE's Intelligent Cities

- The GE's Intelligent Cities platform is designed to help solve infrastructure challenges for cities.
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Meredith Atwell Baker

President & CEO, CTIA

About Baker



- Meredith Attwell Baker joined CTIA as its President and CEO in June 2014.
- Prior to joining CTIA, Mrs. Baker served as the Senior Vice President of Government Affairs at Comcast NBCUniversal where she was responsible for developing policy positions on legislative and regulatory issues and representing those positions before the U.S. Congress, the Administration and government agencies.
- Appointed by President Barack Obama in 2009, Mrs. Baker served as a Commissioner to the Federal Communications Commission (FCC) until June 2011.
- Prior to joining the FCC, Mrs. Baker served in the Bush Administration as the Acting Assistant Secretary of Commerce for Communications and Information as well as the Acting Administrator of the National Telecommunications and Information Administration (NTIA).

About CTIA

- CTIA represents the U.S. wireless communications industry and the companies throughout the mobile ecosystem that enable Americans to lead a 21st century connected life.
- CTIA vigorously advocates at all levels of government for policies that foster continued wireless innovation and investment. CTIA also coordinates the industry's voluntary efforts to provide consumers with a variety of choices and information regarding their wireless products and services. CTIA also hosts educational events that promote the wireless industry and coordinates the industry's efforts to provide consumers with a variety of choices and information regarding their wireless products and services as well as the industry's voluntary best practices.

Manu Namboodiri

Senior Director Business Development Smart Cities, Delphi

About Namboodiri

- Manu Namboodiri is Senior Director, Smart Cities Business Development at Delphi. In this role, Manu has global responsibilities for Delphi's Smart Cities strategy, including ecosystem development and business models for connected and autonomous vehicle initiatives.



- Prior to Delphi, Manu was Senior Director, Business Development at Qualcomm, where he led the Smart City and Industrial IoT business development team focusing on Industrial Automation, Transportation, Energy, Buildings, Lighting and public smart city projects. Manu has deep expertise in IoT, software, cloud, information security, managed services and has held leadership positions in marketing, product management and corporate strategy at startups and large companies including Microsoft, Sun Microsystems, BitArmor, Trustwave and M2Mi.
- Manu holds a Master's degree in Computer Science from the University of Texas at Austin, and an MBA from the J.L. Kellogg School of Management, Northwestern University.

About Delphi

- Delphi is a high technology company serving the automotive sector with an unsurpassable passion to power the way to a better drive and a better future.
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Michael Zeto

General Manager, AT&T Smart Cities

About Zeto

- Michael Zeto is General Manager of AT&T Smart Cities, a business unit inside of AT&T's Internet of Things Solutions. Michael is responsible for the teams that drive the product development, business development and go-to-market strategy for AT&T's Smart Cities initiatives.
- Michael previously served as a Director of Strategy in AT&T's Mobile & Business Solutions organization, focusing on emerging growth opportunities in the areas of IoT, Big Data, Consumer Engagement and Cloud technologies.
- Prior to joining AT&T, Michael was the co-founder and CEO of Proximus Mobility, a location-based consumer engagement software company. Throughout his career, he has successfully served in various general management, corporate development and enterprise sales roles with various technology companies.

About AT&T Smart Cities



- The AT&T Smart Cities framework uses a secure, holistic approach to helping cities improve functions like transportation, lighting, safety and sustainability.