

Venue: Etc.Venues Paddington, 57 North Wharf Road, London, W2 1LA

## AGENDA

**13:30** Registration & Networking over Tea and Coffee

**14:00** Introduction to the Cambridge Wireless Virtual Networks SIG from **Dirk Trossen** of **InterDigital (UK)**

**14:10** Welcome from Event Host, **Paul Ceely**, **Head of Network Strategy, EE**

Session chaired by **Dirk Trossen** of **InterDigital (UK)**

**14:20** “**Revolutionising Mobile Networks with NFV and SDN**”

**Philip Bridge**, **Senior Network Architect, EE**

Lower capex and faster time to market are the most often cited drivers behind NFV and SDN. But in fact these new network models promise nothing less than a revolution not only in the way networks are architected and operated, and in the types of services they can offer, but even in the structure and ecosystems of the industry itself. This talk takes a forward view of how these new possibilities can be brought to bear on the particular challenges presented by mobile networks.

**14:40** Q&A

**14:45** “**Virtual Public Networks (VPuN)**”

**Arjuna Sathiaseelan**, **Senior Research Associate, Cambridge Computer Labs**

Dr Sathiaseelan will present Virtual Public Networks (VPuN), networks created, deployed and managed through an evolutionary SDN control abstraction. This offers more flexibility to users and network operators, allowing them to share and control the network, while providing opportunities for new stakeholders to emerge as virtual network operators.

**15:05** Q&A

**15:10** **Coffee/Tea & Networking**

Session chaired by **Philip Bridge** of **EE**

**15:40** “**Small Cell as Service: Discussion of a New Approach to Next Generation Small Cells**”

**Alan Carlton**, **Senior Director, InterDigital (UK)**

Today, the high level manual configuration required impedes the roll out of small cells. What if we take a new approach to small cells and simply virtualize them all in the cloud. What if we further abstract their implicit resources such as backhaul and spectrum and make them available to different service providers as they need them. Is this new approach to multi-tenancy feasible? This presentation will explore this topic and stimulate this discussion.

**16:00** Q&A

**16:05** “**Traffic Management in the Carrier Cloud**”

**Joakim Rönnblom**, **Strategic Product Manager, Huawei**

This talk will discuss the challenge to ensure proper resource allocation to enforce topological constraints for wireless carrier networks in a virtualized environment. Whether for cost control, site distribution strategy, or SLA-related constraints the network architecture shall support to model the wireless network for traffic distribution according to a specific network topology, while at the same time ensure that the forwarding plane can be dynamically orchestrated for traffic priority handling.

**16:25** Q&A

**16:30** Panel Session with all speakers chaired by **Dirk Trossen**

**17:00** **Fill in Evaluation Forms**

**17:10** **Event Closes**

*With the permission of the speakers, presentations will be loaded to the Cambridge Wireless website on the day following the event*

## Profile of Organisers

### Cambridge Wireless (CW)

CW is the leading international community for companies involved in the research, development and application of wireless & mobile, internet, semiconductor and software technologies. With 400 members from major network operators and device manufacturers to innovative start-ups and universities, CW stimulates debate and collaboration, harnesses and shares knowledge, and helps to build connections between academia and industry. CW's 20 Special Interest Groups (SIGs) provide its members with a dynamic forum where they can network with their peers, track the latest technology trends and business developments and position their organisations in key market sectors. CW also organises the annual Future of Wireless International Conference and Discovering Start-ups competition along with other high-quality industry networking events and dinners. With headquarters at the heart of Cambridge, UK, CW partners with other international industry clusters and organisations to extend its reach and remain at the forefront of global developments and business opportunities. For more information, please visit [www.cambridgewireless.co.uk](http://www.cambridgewireless.co.uk)

## Profile of Host

### EE

EE is the UK's largest communications company, providing mobile and fixed-broadband communications services. Formed in 2010 when the FT Group and DT Group brought their UK Orange and T-Mobile operations together in 2010 in a joint venture. EE launched Oct 2012, with over 2M LTE customers in by the end of 2013 on what is now the UK's largest and fastest mobile network. EE is the superfast customer brand offering the UK's Double-Speed 4G mobile service, complemented by fixed-line fibre broadband. For more information please visit [www.ee.co.uk](http://www.ee.co.uk)

## Profiles of SIG Champions

### Philip Bridge, Senior Network Architect, EE

Phil Bridge has spent over three decades in the telecommunications and networking industries. He has worked in research labs, academia, start-ups, equipment vendors and service providers, in the UK and Switzerland, in technical, marketing and management roles. From 2002 he worked at Orange as a network designer and architect, and continues that role at EE since it was formed from the merger of Orange UK and T-Mobile UK. Currently he is concerned with the technical strategy for mobile data in general, and the evolution of the architecture of the mobile data core network in particular. For more information please visit [www.ee.co.uk](http://www.ee.co.uk)

### Dirk Trossen, Principal Engineer, InterDigital (UK)

Dirk Trossen has more than 15 years of experience in network architectures, wireless technology, and context-aware services. He has led numerous research projects in his corporate positions as well as in international collaborations with world-leading universities and institutions like MIT, Cambridge University, GeorgiaTech and Columbia University. Until recently, Dirk held a position as Senior Researcher at the Computer Laboratory of the University of Cambridge. He also held prior positions as Chief Researcher with BT Research and as Principal Scientist with Nokia Research. He is a research affiliate with the Advanced Network Architecture group at MIT CSAIL and one of the co-founders of TecVis LP. For more information please visit [www.interdigital.com](http://www.interdigital.com)

## Profiles of Speakers

### Philip Bridge, Senior Network Architect, EE

See profile above.

### Alan Carlton, Senior Director, InterDigital (UK)

Alan Carlton is Senior Director, InterDigital Innovation Labs and Head of InterDigital Europe, Ltd. Alan has over 20 years wireless industry experience spanning 2G through the now emerging 5G. He has been with InterDigital for over ten years and has held a variety of senior positions in their development, systems, standards and technology strategy organizations. Prior to InterDigital, he held positions at Nortel, Siemens and a variety of wireless startups both in Europe and United States. Alan is an EEE graduate of the University of Strathclyde, Glasgow and also holds a MSc. in Communications & Signal Processing from Imperial College, London. Alan holds over 15 patents covering a diverse range of wireless technology areas. For more information please visit [www.interdigital.com](http://www.interdigital.com)

### Arjuna Sathiaseelan, Senior Research Associate, Cambridge Computer Labs

Dr Arjuna Sathiaseelan is a Senior Research Associate at the Computer Laboratory, University of Cambridge. He leads work on architecting Internet technologies to support new low-cost access methods that would enable low cost Internet connectivity to enable wider social inclusion. He also chairs the Internet Research Task Force (IRTF) Global Access to the Internet for All initiative. For more information please visit [www.cl.cam.ac.uk](http://www.cl.cam.ac.uk)

### Joakim Rönnblom, Strategic Product Manager, Huawei

Mr. Joakim Rönnblom is Strategic Product Manager of the Wireless PS/EPC CORE Network of Huawei Technologies with focus on the European Region. He has been working over 13 years in the mobile industry in the field of product management, marketing and business consulting of PS core network infrastructure and mobile broadband solutions. For more information please visit [www.huawei.com](http://www.huawei.com)

## Delegate List

Name	Organisation	Company Profile
Dev Audsin	Orange	
Shaswar Baban	King's College London	Research and Education
Ashley Benn	Codenomicon	World-proven Cyber security solutions for both the builders & buyers of IT & comms systems
Damian Bevan	DBAF Consulting Limited	System analysis, algorithm design and simulation software in wireless technology
Ken Blakeslee	WebMobility Ventures	
Thomas Boesen	Imimobile	
Philip Bridge	EE	<b>SIG Champion</b>
Julian Brookes	Network Technologies Asia	Introduction of wireless technology companies to NE Asia.
Neil Burbidge	Flint Consulting Limited	Solution Integrator
Iain Campbell	Accenture	
Alan Carlton	InterDigital (UK)	
Nick Carter	Aeroflex	Test system vendor
Paul Ceely	EE	
Chris Chambers	BBC	BBC is the UK's public service broadcaster that supports world class research activities.
Jean-Michel Chapon	Today Consulting Ltd	Business modelling for Telecom
Gilles Charbit	Mediatek	Chipset vendor
Kun Chen	Dept of Electrical & Electronic Engineering, University College London	
Tim Cook	Arqiva	Infrastructure Provider
Stephen Corless	NSN	Telecom Infra Provider
Martin Crack	Amdocs	
Dorin Cristescu	OpenBet	Online gambling technical services
Neil Davies	Predictable Network Solutions Ltd	PNSol is engaged with leading SDN vendors, applying stochastics to predict network performance.
Neil Dickins	IC Group	Founded in 1999, IC Resources has become a trusted business partner to a wide range of semiconductor
Deborah Duberry	Microlease Plc	Specialist in COTS test & measurement equipment services.
John Edwards	Edwards & co	Law firm
Andrew Entwistle	new street research	
Don Eungblut	HE Ventures Ltd	
Simon Fletcher	NEC	
Caroline Gabriel	Rethink Technology Research Ltd	
Zahid Ghadialy	eXplanoTech	Technical consultancy, Technical trainings and Managed services in wireless telecoms
Bez Ghazani	Livecast	Secure Video streaming, Unified Communication with Video Conferencing, Video Sharing, live chat
Christos Gkantsidis	Microsoft Research	Advance the state of the art in computer science and related disciplines.
Renato Goodfellow	BT	Telecoms and ICT Services
Peter Gould	Multiple Access Communications Limited	Consulting and product development company specialising in mobile radio communications
Antoine Grenier	Deloitte	Professional services
Simon Hicks	BIS	BIS is the government department responsible for contact with innovation and industry.

Gillian Huang	MediaTek	www.mediatek.com
Richard Jacklin	Anite	Wireless Test & Measurement
Nigel Jefferies	Huawei Technologies	
Adrian Jones	Aeroflex	Aeroflex is a leading worldwide provider of specialized test equipment and microelectronic solutions
Soraya Jones	Cambridge Wireless	
Sean Keating	Vilicom	Wireless Consultants
Lotfi Kehal	Nokia Solutions and Networks	
Guy Kenyon	Kenyon Consulting	
Kit Kilgour	ip.access	ip.access is the leading provider of 2G, 3G and LTE small cell systems, with over 1M cells deployed
Kamran Kordi	NSN	
Behrooz Lessani	5BARz International	
Alun Lewis	Tetra Today	
John Lichnerowicz	Installation Technology	
Sylvia Lu	u-blox	
Noah (Zhong) Luo	Huawei Technologies	
Colin Mallett	Fulvens Ltd	Mobility and eCommerce Consulting
Steve Methley	Quotient Associates Ltd.	Communications, networks and spectrum consultants. Licence exemption, location, virtualisation.
Tim Murdoch	Cambridge Consultants	
Kevin O'Brien	Xentech Solutions Limited	Design consultancy specialising in hardware and software development for data networking equipment.
Conor O'Callaghan	Vilicom	Vilicom is a service driven consultancy and telco engineering services company
Tim Phipps	Cambridge Consultants	Product Development Consultancy
Chris Rayner	Huawei Technologies UK Co. Ltd.	
Tim Robjohns	Samsung	
Joakim Rönnblom	Huawei	
Christian Rouffaert	Accenture	
Atul Roy	EE	MNO
Arjuna Sathiaseelan	Cambridge Computer Labs	
Stephen Skipp	Plextek Limited	
Dale Taylor	Vodafone Group	
Peter Thompson	Predictable Network Solutions	PNSol is engaged with leading SDN vendors, applying stochastics to predict network performance.
Simon Tonks	PA Consulting Group	
Dirk Trossen	InterDigital (UK)	<b>SIG Champion</b>
Ken Uematsu	Marubeni Europe	
Patricia Wells	NEC Telecom MODUS	
Mick Wilson	Fujitsu Laboratories of Europe	FLE covers R&D in high performance computing, big data and 5G networks
Richard Wloch	Accenture	
Xue Wu	Aeroflex	
Gorkem Yigit	Analysys Mason	Telecoms, media and technology consulting & research