

## Mobile Broadband SIG 'The Connected Car: The Next 500 Million Connections'

6 April 2016

This SIG is championed by George Grayland, **Nokia Networks**, Peter Montgomery, **GSMA**,  
Tom Rebbeck, **Analysys Mason** and Iain Stanbridge, **EE**

Venue: Palmerstone Room, Fisher Building, St John's College, St John's Street, Cambridge, CB2 1TP

### AGENDA

**14:00** Registration and networking with refreshments

**14:30** Introduction to Mobile Broadband SIG from **Tom Rebbeck** of **Analysys Mason**

**Session chaired by SIG Champion, George Grayland of Nokia Networks**

**14:40** **Mike Bell**, Global Connected Car Director, **Jaguar Land Rover**

**15:00** Q&A

**15:05** **LTE and Car2x: Connected cars on the way to 5G**

**Uwe Pützschler**, Head of Car2x, **Nokia Solutions and Networks Deutschland GmbH**

Safer roads, more enjoyable driving, lower emissions, more efficient road use – these are some of the gains that will be realized by applying advanced mobile communications to support the car and road transport industry. A breakthrough technology is Mobile Edge Computing, or cloudlets at the mobile edge, which enhance LTE. Field trials have shown how the technology's ultra-low latency and high bandwidth redefine car2x use cases. For mobile network operators, the capabilities open up opportunities to gain a higher return from their LTE network investments. They also complement ITS G5/DSRC hot spot deployments.

The talk will introduce the technology, present an overview about tests which were done end of last year at a German motorway and give an outlook.

**15:25** Q&A

**15:30** **Does our understanding of mobility have to change as the connected car increasingly becomes part of the built environment? - an operators view of the evolution of services around and beyond the car**

**Phil Skipper**, Head of M2M Business Development, **Vodafone Machine-to-Machine (M2M)**

**15:50** Q&A

**15:55** **Refreshments and networking**

**Session chaired by SIG Champion, Iain Stanbridge of EE**

**16:30** **Connected car and IoT data**

**Moeen Khawaja**, Director & COO, **Thingful**

Introduction to Thingful and its decentralised IoT data search and access services followed by a discussion of what Thingful has deployed in Cambridge this year and how Thingful will make it possible for connected cars to ingest external IoT data and share sensor data with third parties.

**16:50** Q&A

**16:55** **Contextual Intelligence in Connected Vehicles**

**Andy Dumbell**, Managing Director, **Control F1, i-MOTORS lead partner**

The UK has set out its stall to become a world leader in automotive technology and when Innovate UK announced the £20m call for collaborative R&D projects, Control F1 saw this as a real opportunity to bring together a consortium of great minds to solve some of the challenges ahead in the connected and autonomous vehicles sector. i-Motors is a collaborative R&D project, seeking to standardise the way in which connected and autonomous vehicles communicate with one another and to other machines. Its key objective is to create and distribute contextual predictive intelligence to motorists and driverless cars, enabling better decisions, and ultimately make getting from A to B safer, faster and cleaner.

**17:15** Q&A

**17:20** Panel session with all speakers chaired by **SIG Champion, Tom Rebbeck** of **Analysys Mason**

**17:55** **Complete evaluation forms**

**18:00** **Event closes**

Delegates are invited to attend the Founder's Dinner pre-dinner drinks, taking place in the foyer of the Fisher Building

With the permission of the speakers, presentations will be loaded to the CW 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 and 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 19 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.

[www.cambridgewireless.co.uk](http://www.cambridgewireless.co.uk)

## Profile of SIG Champions

### George Grayland, Nokia Networks

George Grayland is a Senior Wireless Solutions Manager with Nokia Networks. George joined Nokia Solutions and Networks in 1998 and has held positions in both Product Management and Technical Sales for GSM, WCDMA and LTE networks. After periods working with Operators such as Telefonica and Deutsche Telecom on 3G, he is now based in the UK and is responsible for Mobile Broadband Networks Solutions working with two of the UK's larger MNOs as they plan their 4G network deployments. Prior to Nokia and NSN George held various positions at Philips Electronics in both R&D and Technical Marketing. He has a BEng. in Electrical and Electronic Engineering from the University of Bradford and is a Member of the IET. [networks.nokia.com](http://networks.nokia.com)

### Peter Montgomery, GSMA

Peter currently leads strategic partnership activities for the GSMA. He works with key stakeholders in the mobile telecoms market to collaborate on GSMA led industry initiatives with the aim of facilitating and triggering market expansion, enabling scale and fostering innovation. In turn lowering the barriers to widespread adoption of technologies such as mobile broadband and enabling new emerging solutions such as embedded mobile to gain a sure foothold. Having acquired a degree in Electrical and Electronic Engineering from Birmingham University, Peter moved swiftly into the commercial world where he led marketing and business development activities at Marconi, Symbian and then Nokia before arriving at the GSMA. [www.gsma.com](http://www.gsma.com)

### Tom Rebbeck, Analysys Mason

Tom has recently re-joined Analysys Mason as Research Director, and has responsibility for the definition, delivery and management of its consumer telecoms research activities. Prior to returning to Analysys Mason, Tom was a Global Project Manager for Telefónica where he was involved in the launch of a number of mobile content services and applications across the Telefónica footprint. Before this, he was Principal Analyst for Analysys Mason, and worked on numerous client projects. [www.analysismason.com](http://www.analysismason.com)

### Iain Stanbridge, EE

As Principal Network Architect in EE's Network Strategy team, Iain is accountable for the evolution of EE's radio access network and spectrum strategy. Iain has been heavily involved in EE's 4G network plans and the 2013 spectrum auctions. He works closely with stakeholders in EE's operation and partners in the mobile ecosystem to develop new opportunities for the mobile network. Iain has held a number of Design, Architecture and Strategy roles in Orange UK and France Telecom Group, spanning radio and core networks. Prior to joining Orange, Iain worked for Siemens Research at Roke Manor. He has an MEng in Electrical and Electronic Engineering from the University of Birmingham and an MSc in Strategic Management from the University of Bristol. [www.ee.co.uk](http://www.ee.co.uk)

## Profile of speakers

### Mike Bell, Jaguar Land Rover

Mike Bell is the Global Connected Car Director, a new position created in 2012 to address customer demand for connected car technologies. He is responsible for establishing and leading the end-to-end connected car service for Jaguar Land Rover, delivering an integrated strategy for telematics, mobile connectivity (both in-car and connected devices) and connected services. His role combines technical expertise with a focus on delivering a premium customer experience to drive commercial value. As recognition for his pioneering and innovative work at Jaguar Land Rover, Mike was presented with the 2014 Automotive News Europe Rising Star Award for Technology.

Prior to this Mike was Chief Technology Officer at Jaguar Land Rover where his involvement in telematics started. Mike has spent over 19 years as a senior strategic technology professional working for major Fortune 500 and FTSE 100 companies, delivering innovative technologies to deliver significant business benefit. He has experience of multiple industry verticals including utilities, manufacturing, telecoms, oil exploration, and public sector. He holds a BSc and PhD in Computer Science from University of Liverpool. [www.jaguarlandrover.com](http://www.jaguarlandrover.com)

### **Andy Dumbell, Control F1, i-MOTORS lead partner**

Where do you stand on technology? Is it truly useful? Does it add measurable value?

Andy Dumbell (co-founder and Managing Director of Control F1) loves technology and, like many of us, he gets frustrated when it's not used appropriately and hinders his life. When you are waiting for a passcode sent by your bank to your mobile phone to process a transaction, only for it to arrive too late and you have to start over again. When you have to answer endless questions on an automated phone call, just to get asked the same questions by an operator 10 minutes later.

Andy is enthusiastic about using technology as a part of our everyday lives, to make a meaningful difference and for it to fit into our lives seamlessly. With over 20 years' experience in the software development industry, Control F1, a digital technology company and tech enabler for telematics and smart mobility, was co-founded with Andy in 2010. With a varied portfolio - including the RAC, Travis Perkins Group and Johnson & Johnson - Control F1 have partnered with clients who have entrusted the team to create software critical to their businesses.

A passionate entrepreneur, Andy's experience crosses product development, business growth and programme management. With his dedicated team at Control F1, they ensure the focus is on the problem at hand and the people whom it impacts, to create the right solution resulting in measurable improvements. Great software, he believes, solves real problems, is intuitive and gains rapid adoption.

Andy's vision for Control F1 is to build a UK powerhouse of technical innovation, using code to unlock a better digital future for all. [www.ctrlf1.co.uk](http://www.ctrlf1.co.uk)

### **Moeen Khawaja, Thingful**

Moeen is the COO of Thingful Limited, a London based IoT start up. Prior to Thingful, Moeen was the Chief Operating Officer and part of the foundational team of a US headquartered insurance telematics and fleet management service, providing SaaS based services to the automobile insurance industry globally.

Moeen has two decades of international business development experience, holding strategic and leadership roles with executive responsibility in telecommunication network service operators and technology based service companies. Moeen led from concept to launch of Sprint PCS 3G Picture messaging service in 2002-03, and prior to that led territory development for global satellite data network ORBCOMM, in Middle East and Central Asia. Moeen was part of the investment team that led the first round of investment into Pachube.com, the first data infrastructure for Internet of Things and remained associated until its exit to LogMeln Inc. [thingful.net](http://thingful.net)

### **Uwe Pützscher, Nokia Solutions and Networks Deutschland GmbH**

Uwe Puetzscher heads Nokia's global car2x program.

He joined Siemens in 1990 and held a number of positions in Operations Support System (OSS) research and development before moving to the UK where he assumed a management role in the sales organization for 5 years. After returning from the UK and prior to his current position, he ran a business line in the global service organisation and was responsible for strategic partner management supporting Nokia's Mobile Edge Computing solution. Uwe holds a Ph.D. in computer science.

[company.nokia.com](http://company.nokia.com)

### **Phil Skipper, Vodafone Machine-to-Machine (M2M)**

Phil joined Vodafone in July 2013 as Head of M2M Business Development. He is fully responsible for developing M2M solutions and capabilities on a global basis. "M2M adoption will continue to accelerate with smaller organisations being able to harness the advantages of M2M technology to drive greater efficiency and value for their customers. As Head of Business Development for Vodafone M2M, I'm particularly excited to play a key role in developing this important application area" he says.

Phil has a wealth of experience in a broad range of industries including defence, FMCG and media. Prior to joining Vodafone Phil was responsible for Markets and Portfolio within the Siemens Infrastructure & Cities organisation. Prior to that he held the position of Director Electro Mobility for Siemens and has worked for a number of well-known blue chip organisations including Landis + Gyr and Mars in the UK, USA and Switzerland. [www.vodafone.com/business/m2m](http://www.vodafone.com/business/m2m)