

Digital Delivery and Content SIG “What Network is Fit for Purpose?”

8th April 2014

Hosted and Supported by: **tech**^{UK} representing the future

This SIG is championed by Dev Audsin of **Orange**, Tim Cook of **Arqiva**, Russell Inman of **Praxsys**, Chris Nokes of **BBC Research & Development** and Sami Susiaho of **BSkyB**

Venue – techUK, 10 St. Bride Street, London, EC4A 4AD

AGENDA

-
- 13:30** Registration & Networking over Coffee & Tea
-
- 14:00** Introduction to the Cambridge Wireless Digital Delivery and Content SIG by **Tim Cook** from **Arqiva**
-
- 14:10** Welcome from Event Supporter and Host, **Colin Batten**, Associate Director - Internet and Media, from **techUK**
-
- Session chaired by SIG champion **Chris Nokes** from **BBC R&D**
-
- 14:20** **‘UK Digital Communications Infrastructure Strategy – 2025 and beyond’**
Mark Swarbrick - Project Director, Digital Communications Infrastructure Strategy, DCMS
The Government has committed to develop a UK strategy for our digital infrastructure. This will consider the measures needed, from Government and others, to ensure that the UK continues to benefit from world-class communications networks as technology and the digital economy develop further.
-
- 14:35** Q&A
-
- 14:50** **‘Making the Rich Media Experience a Reality’**
David Thompson, CTO & Founder, Airsense Wireless
Wi-Fi has some unique traits that make it the perfect medium to enable a true rich content experience. We are still facing some challenges to make this a reality. This talk will showcase many of the problems and discuss some of the approaches being adopted both from a commercial and technical standpoint.
-
- 15:05** Q&A
-
- 15:20** **Refreshment & Networking**
-
- Session chaired by SIG champion **Dev Audsin** from **Orange**
-
- 16:00** **‘Is 5G going to be the network to deliver everything?’**
Dr David Wisely, Head of Mobile Research, BT
This talk will look at emerging research and vision into fifth generation mobile. In particular it will look at the future connectivity demands of an Internet of Things and highlight the research challenges of addressing these within 5G.
-
- 16:15** Q&A
-
- 16:30** **‘LTE as a video distribution network’**
Matthew Stagg, Senior Manager of Network Strategy, EE
With mobile video traffic set to hit >65% in 2017 LTE is increasingly becoming a video distribution network for OTT content. This presentation looks at the challenges and opportunities that come from such a rapid evolution of content.
-
- 16:45** Q&A
-
- 17:00** **Panel Session** with all Speakers chaired by SIG Champion **Sami Susiaho** from **BSkyB**
-
- 17:30** **Event Closes & Fill in Evaluation Forms**
-

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 18 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

Profile of Supporter/Host

techUK

techUK represents the companies and technologies which today define the world that we will live in tomorrow. More than 850 companies are members of techUK. Collectively they employ more than 500,000 people, about half of all tech sector jobs in the UK. These companies range from leading FTSE 100 companies to new innovative start-ups. The majority of our members are small and medium sized businesses. techUK's vision is for the UK to be a leader in the development and use of digital technology for the benefit of the UK economy and its citizens. We are seeking to accomplish this through a series of campaigns, programmes, working groups and partnerships.

Campaigns - focusing upon the burning issues that need to be addressed as a matter of priority within the UK tech sector.

Programmes - defined around vertical and cross market areas of work which we are pursuing on behalf of the tech sector.

Working groups - dealing with specific issues within our broader programme workflow. techUK runs over 90 groups and committees and attendance is free to all members.

Partnerships - techUK works with many other organisations to help grow technology in the UK.

For more information, please visit www.techuk.org

Profile of SIG Champions

Dev Audsin, Orange

Dev Audsin is a Senior Research Engineer at Orange, working on advanced R & D projects related to next generation mobile communications. Prior to this, he was a Research Scientist at Hewlett Packard. Before moving to the industry, Dev worked as a Research Associate at the Centre for Telecommunications Research, King's College London. Dev holds a PhD in Telecommunications from King's College, University of London. Dev is in the core scientific and technological R & D since 2002 and was a member of a number of successful European Commission sponsored FP6 and FP7 ICT projects. For more information, please visit www.orange.co.uk

Tim Cook, Arqiva

Tim is currently "Head of Strategic Business Development" for the Terrestrial Broadcast Division of Arqiva. Prior to his current position he completed 18 years at BT, where he was a Board Director of a 50:50 JV with France Telecom to provide in-flight telephony. Since then he has various held roles at Nortel, Equant (now Orange Business Services) and with a USA satellite solutions company. His current focus is on addressing the requirements of existing and new entrant content providers utilising complementary/new platforms. For more information, please visit www.arqiva.com

Russell Inman, Praxsys

Russell Inman is a Technology Consultant operating in the broadcast, mobile communications and smart metering sectors. He is the Managing Director of Praxsys; a technology consultancy practice. He is a Chartered Engineer with over 25 years of experience specialising in the deployment of new technologies and platforms.

Until March 2011, Russell held the post of Technology Director at Arqiva, the UK-based communications and media services company, providing infrastructure for the broadcast, mobile communications and satellite markets. Prior to that, he worked for National Grid Wireless, Crown Castle International and the BBC. He has led, and been a key

member of, teams which have developed new products and platforms in sectors such as digital TV, mobile TV, 3G and Smart Metering. At Crown Castle, he was a member of the Freeview launch team working alongside Crown Castle's launch-partner companies; BBC and BSkyB. He served as Vice-President, Engineering at Modeo which pioneered a mobile TV service in New York.

In 2011, Russell formed Praxsys – a technology consultancy practice (www.praxsys.co.uk).

Russell holds an Upper Second Class Honors Degree in Electronic Engineering from the University of Sheffield and is a Fellow Member of the Institution of Engineering and Technology. For more information, please visit www.praxsys.co.uk

Chris Nokes, BBC Research & Development

Chris is Head of Distribution Core Technologies Section at BBC Research & Development. With over twenty-five years' experience in Broadcasting R&D, Chris has been involved in the development of digital television since 1994, including as a key contributor to the DVB-T2 technical study group, and editor of the DVB-T2 specification. He is also Chair of the RF Group of the UK Digital Television Group (DTG). The work of Distribution Core Technologies Section includes projects investigating broadcasting to mobile devices, the next generation of wireless cameras, TV White Space devices, IP Stagebox and High Efficiency Video Compression. For more information, please visit www.bbc.co.uk

Sami Susiaho, BSKYB

Sami Susiaho has worked for European blue chip MNOs and ISPs for the last 15 years. During the last few years, at BSKYB as the Head of Edge Technologies of the Cloud business unit, focusing on WiFi R&D and helping the business to build one of the most advanced WiFi hotspot networks in the world. He researches technologies used on the edge of the network; last mile connections, wireless and wired technologies. Sami runs the Wi-Fi test lab, sits on various industry workgroups and contributes in numerous efforts towards the best possible user experience on WiFi. For more information, please visit www.corporate.sky.com

Profile of Speakers

Matthew Stagg, Senior Manager of Network Strategy, EE

Matt has over 20 years experience in Telecoms and Datacoms. In 2013 Matt originated the concept and subsequently co-founded the Mobile Video Alliance, an industry wide think tank dedicated to developing an end to end mobile video ecosystem. Within EE he has developed the long term strategy for OTT video delivery and monetisation for EE including leading the development of LTE-Broadcast. Matt also has responsibility for the strategy for the core network, and content delivery across all brands. Having had a 6 month secondment in 2012 as Technical Lead for the LTE program Matt has a significant understanding of the end to end challenges of developing a 4G network. He is now looking at the commercial, organisational and technical challenges in overlaying a video distribution network. Previous to transferring into Everything Everywhere (Orange UK and T-Mobile UK joint venture) Matt was responsible for IP architecture and strategy for Orange UK. Matt regularly presents at key industry events. For more information, please visit explore.ee.co.uk

Mark Swarbrick - Project Director, Digital Communications Infrastructure Strategy, DCMS

Mark has worked in the Civil Service for over 20 years, mostly in jobs relating to information communications and technology. Most recently he led on Broadband Policy in the Department for Business, Enterprise and Regulatory Reform for five years between 2004 and 2009, before becoming Head of UK Spectrum Policy in BIS and then DCMS for three years. Mark has recently returned to DCMS to lead the Digital Communications Infrastructure Strategy (DCIS) from BIS, where he has been working on projects related to SMEs and Business Support. For more information, please visit www.gov.uk/dcms-digital-strategy

David Thompson, CTO & Founder, Airtel Wireless

David Thompson has over eighteen years of experience in cutting edge technology companies. Working at large institutions such as Hewlett Packard and NXP Semiconductors, where he was employed as Director of Global Integrations, through to start-ups such as Bitfone Device Management. As the founding member of the technical team for Bitfone EMEA, David secured launches with T-Mobile, Swisscom and H3G. He has also performed a series of senior consulting roles for Vodafone UK, Vodafone Global Enterprise, O2 UK, Rolls Royce, Alenia Marconi, BAE, Bell South, Thales and many others. For more information, please visit www.airtelwireless.com

Dr David Wisely, Head of the Mobility and Convergence Lab, BT

After graduating with degrees in physics, optics and telecommunications as well as a PhD in mobile multimedia delivery Dr. Wisely has worked for BT for 20 years in the fields of networks and mobility research. Dr. Wisely was one of the pioneers of an all-IP solution for future developments of 3G and was technical manager for the successful EU projects BRAIN and MIND (1999-2002) that were pre-cursors to some of the all-IP ideas incorporated into LTE standards. For the past 3 years Dr. Wisely has been head of Mobility Research at BT - with responsibility for BT's long term mobility strategy and technical leadership of projects ranging from cellular backhaul to WiFi cities and infill

for rural broadband. Recently he has been heading up BT's initiative on TV White Space - which is being used by BT in a trial of 10 users to assess its suitability as a solution for rural broadband provisioning. He has contributed over 100 papers to journals and conferences. In 2009 Dr Wisely published a book entitled "IP for 4G" having previously published "IP for 3G" in 2003. For more information, please visit home.bt.com