

## Joint ICT KTN and Cambridge Wireless Security and Defence SIG Event “SMEs at the Heart of Future Defence Innovation?”

11<sup>th</sup> April 2013

Jointly Sponsored by Accenture

*This SIG is championed by Guy Kenyon of **Kenyon Consulting**, David Chater-Lea of **Motorola Solutions**, Nicholas Hill of **Plextek**, Tim Phipps of **Cambridge Consultants** and **Airwave***

Venue – Accenture, Newgate Room, 20 Old Bailey, London, EC4M 7AN

### AGENDA

12:00	Registration over Networking Lunch
13:00	Introduction to the Cambridge Wireless Security & Defence SIG by SIG Champion <b>Nicholas Hill, Plextek</b>
13:10	Welcome from our Sponsor, <b>Andy Bush, Director of Business Development, Accenture</b>
13:15	Welcome from our Partner, <b>Anthony Dyhouse, Director of the Cyber Security Knowledge Transfer Network, ICT KTN</b>
13:25	Chaired by SIG Champion <b>Nicholas Hill, Plextek</b> <b>“The Challenges and Opportunities of Policing in a Data Rich Changing World”</b> Tim will be talking about how the police services are responding to the changes in society, the explosion of social media, the pace of advancing technology and the subsequent rise in citizen expectation. <b>Tim Godwin OBE QPM, Defence and Public Safety, Accenture</b>
13:45	Q&A
13:50	Chaired by <b>Airwave</b> <b>“Man Worn Power and Data – An SME Led Project for the MOD”</b> At the end of 2011, Cosworth decided to try their hand at bidding as prime contractor for a Technology Demonstrator project for the Integrated Soldier Systems Executive (ISSE). Much to our amazement, we were awarded one of two contracts – the other going to one of the country’s leading defence primes. During this talk, I will tell the story of this project, what led us to bid for the work, our experiences in executing it, and how we have fared since the project completion in October 2012. <b>John Frankham, Technical Lead, Cosworth</b>
14:10	Q&A
14:15	Chaired by SIG Champion <b>Tim Phipps, Cambridge Consultants</b> <b>“An SME Perspective on Engaging in Innovation for Defence Markets?”</b> It has been well-documented that a large majority of small companies never obtain more than twenty employees at any time, a factor largely due to limited market access. After years of stimulating the ‘push model’, whereby government schemes provided direct support to SMEs, new challenge-led schemes were introduced in order to create ‘market pull’. Henk Koopmans, CMO of Plextek will discuss whether these types of scheme are really working within the defence and security sectors and how they can be improved. Henk will reveal an alternative approach that SMEs can consider when generating a business in these markets, and the role that associations such as Cambridge Wireless can play to help SMEs. <b>Henk Koopmans, CMO, Plextek</b>
14:35	Q&A
14:40	Chaired by SIG Champion <b>Tim Phipps, Cambridge Consultants</b> <b>“Effective Communications to the Tactical Edge”</b> Warfighters at the tactical edge have often been described as the “tip of the spear” and frequently find themselves separated from the greater Global Information Grid due to the inherent challenges of critical bi-directional information flow to the edge. Thus, the digital divide has caused an even greater gap between the Operational Warfighter and the Tactical Warfighter due to the limited shared awareness and collaboration possible at the tactical level. The Distributed Tactical Communications System (DTCS), leveraging the Iridium low-earth-orbiting satellite constellation, provides satellite-based on-the-move, over-the-horizon, beyond line-of-sight tactical push-to-talk (PTT) voice and command and control (C2) capability to warfighters. DTCS enables C2 among mounted and dismounted tactical operations in all terrain and with global access, without the need for ground infrastructure. DTCS was designed to bridge the “communications divide” for the tactical warfighter. <b>Scott Scheimreif, Executive Vice President of Government Programs, Iridium</b>
15:00	Q&A

<b>15.05</b>	<b>Coffee/Tea &amp; Networking</b>
<b>15.35</b>	<p>Chaired by SIG Champion <b>Guy Kenyon, Kenyon Consulting</b></p> <p><b>“Security and Policing – a Home Office Science Perspective”</b></p> <p>Chris will cover the role of the Home Office Centre for Science and Technology and how they support UK law enforcement and wider Home Office interests. In particular Chris will describe how they identify areas where technology can make a difference and work with academia and industry to develop effective solutions.</p> <p><b>Chris Rampton, Capability Adviser Surveillance, CAST, Home Office</b></p>
<b>15.55</b>	Q&A
<b>16.00</b>	<p>Chaired by SIG Champion <b>Guy Kenyon, Kenyon Consulting</b></p> <p><b>“Opportunities for Innovative Research in Defence”</b></p> <p>The Ministry of Defence’s Centre for Defence Enterprise (CDE) targets opportunity and support at SMEs, academia and other potential suppliers, particularly those new to Defence. CDE provides proof-of-concept research funding for novel ideas that have a potential defence or security application.</p> <p><b>Jonathan Byrne, Head of Centre for Defence Enterprise (CDE)</b></p>
<b>16.20</b>	Q&A
<b>16.25</b>	Open Forum with all speakers, additional panellist <b>Anthony Dyhouse</b> , Director of the Cyber Security Knowledge Transfer Network, <b>ICT KTN</b> & audience chaired by SIG Champion <b>Nicholas Hill, Plextek</b>
<b>17.00</b>	<b>Fill in Evaluation Forms and Closing of the Event by Nicholas Hill, Plextek</b>
<i>With the permission of the speakers, presentations will be loaded to the Cambridge Wireless website on the day following the event</i>	

## Profile of Organisers

### Cambridge Wireless

Cambridge Wireless is a leading industry forum and vibrant community with a rapidly expanding network of companies actively involved in the development and application of wireless technologies. In addition to high level networking dinners, educational events and business development activities, Cambridge Wireless runs an annual Future of Wireless International Conference along with the Discovering Start-Ups initiative to support emerging, innovative wireless companies. Over 15 Special Interest Groups focused on specific technologies and market sectors, also provide opportunities for members to meet, form partnerships to exploit new commercial opportunities, and share knowledge and information about the latest industry trends and hot topics. Cambridge Wireless has partnerships with other leading industry clusters and organisations around the world to extend its international reach and to keep members up to date with the latest global developments and business opportunities. For more information please visit: [www.cambridgewireless.co.uk](http://www.cambridgewireless.co.uk)

### ICT KTN

Creating a competitive advantage for the UK by facilitating knowledge exchange on Information and Communications Technologies and accelerating innovation. This new KTN has been formed from a merger by the Digital Communications and Digital Systems KTNs with the objective of bringing competitive advantage to the UK by facilitating the exchange of knowledge on ICT technologies and capabilities. We plan to do this by acting as a ‘Network of Networks’, organising a range of events and providing support throughout the UK in association with other communities of interest and centres of excellence. For further information please visit: [www.ictktn.org.uk](http://www.ictktn.org.uk)

## Profile of Sponsor

### Accenture

Accenture is a global management consulting, technology services and outsourcing company, with 257,000 people serving clients in more than 120 countries. Combining unparalleled experience, comprehensive capabilities across all industries and business functions, and extensive research on the world’s most successful companies, Accenture collaborates with clients to help them become high-performance businesses and governments. The company generated net revenues of US\$27.9 billion for the fiscal year ended Aug. 31, 2012. For more information please visit: [www.accenture.com](http://www.accenture.com)

## Profile of SIG Champions

### David Chater-Lea, Motorola Solutions

David is a senior technologist working for Motorola in the areas of advanced system architecture and design. He is a specialist in wireless communication system security, a founder member of the TETRA Association Security and Fraud Prevention Group and has been working in the ETSI TETRA standardisation activities since 1994. He is currently chairman of ETSI TETRA WG4, looking at advanced air interfaces, and an active member of TETRA WG6 and TETRA Association SFPG. During a career which includes over 20 years at Motorola, he has worked on a variety of mobile radio products and systems designs, and is one of the original architects of Motorola’s TETRA compliant digital communications system, Dimetra. David holds a BSc in Electronic and Electrical Engineering from the University of

Birmingham, England, and is a Chartered Engineer and a Fellow of the IET. He holds a number of patents in the field of radio communications systems. For more information please visit: [www.motorolasolutions.com](http://www.motorolasolutions.com)

#### **Nicholas Hill, Plextek**

Nick joined Plextek in 2007 - based at the offices of a client in Malaysia - to provide technical coordination and consultancy for technology development projects, and to assist the client to improve the performance and efficiency of their R&D department of ~60 staff. This role involved developing in-car entertainment product concepts, requirement specifications and project plans, coordination between development teams in UK and Malaysia and providing technical support and assistance to the client team. Subsequently, he set up and led an R&D Management Council and implemented a two-year R&D improvement plan. Prior to joining Plextek, Nick worked as a hardware designer, embedded software designer, systems engineer and company director for a range of companies and on a diverse range of applications including, defence, aerospace, healthcare, scientific instrumentation and telemetry systems. He graduated from Liverpool University in 1982, is a member of the Institution of Engineering and Technology and has co-authored a patent on radio location and tracking technology. For more information please visit: [www.plextek.com](http://www.plextek.com)

#### **Guy Kenyon, Kenyon Consulting**

Guy Kenyon is an independent consultant specialising in secure fixed and mobile communications for those user communities who must have secure, resilient and reliable communications at all times. This includes the emergency services, government and national security organisations and their suppliers. Until early 2011, Guy worked for Northrop Grumman Information Systems, a large US based defence and government IT contractor. His work with the company included a seven year attachment to Airwave Solutions where, as a Systems Engineer, he focussed on the design and implementation of the nationwide secure TETRA communications system. In 2007, Guy implemented a TD-CDMA broadband wireless trial in Lewes with support by NPIA and Sussex Police – based upon a system fielded in New York City. In addition to next generation wireless, Guy's activities include secure networks, cyber security/information assurance and the development of secure shared services for UK government. For more information please email: [guykenyon@talktalk.net](mailto:guykenyon@talktalk.net)

#### **Tim Phipps, Cambridge Consultants**

For 50 years, Cambridge Consultants has led the way in innovative product development. We are the development partner of choice to many of the world's leading blue chips as well as the virtual development team for ambitious start up companies. Tim is responsible for Wireless Business Development at Cambridge Consultants and has a long track record of working on leading edge wireless technology development and creating new business of strategic importance for product manufacturers. Over his career he's worked to introduce innovative new technologies at the earliest stage of their market development such as mobile phone operating systems, EDGE, GSM, Bluetooth and WiFi. As Champion of the Cambridge Wireless Healthcare SIG, Tim's objective is to create commercial discussions that further the interests of society. For more information please visit: [www.cambridgeconsultants.com](http://www.cambridgeconsultants.com)

#### **Airwave**

Airwave designed, built and operates the largest public safety radio communications network in the world, delivering critical voice and data communications to organisations that provide vital public services. This includes the police, fire and ambulance services as well as local authorities, utilities and transport providers. For more information please visit: [www.airwavesolutions.co.uk](http://www.airwavesolutions.co.uk)

### Profile of Speakers

#### **Anthony Dyhouse, Director of the Cyber Security Knowledge Transfer Network, ICT KTN**

Tony took over as Director of the Cyber Security Knowledge Transfer Network in 2009, continued as Director of the Cyber Security programme within the Digital Systems KTN and now within the ICT KTN. Tony joined DERA (now QinetiQ) in 2000 and became the Director of QinetiQ's Operations & Technical Services group, providing a range of managed security services. This role was followed by a spell as Director of the Information Assurance Consultancy group before becoming Director of the Cyber Security KTN. His expertise extends across all areas of Cyber Operations and Information Security, with specialist knowledge in Cyber Intelligence, Network Intrusion Detection, Penetration testing, Incident Response and Digital Forensics. Tony's early career was with British Gas, ICL and Fujitsu, spanning over 28 years in the IT industry with experience in SCADA, Telemetry, the operational management of WANs and LANs and various security technologies. Tony works with a range of public and private sector organisations on matters of Cyber Security, as well as being active in several industry forums and strategy groups. He is a regular contributor to BBC television and of published features and articles. Tony is IEng, CISSP, a Fellow of the BCS and a member of IET and CMI. For more information please visit: [www.ictktn.org.uk](http://www.ictktn.org.uk)

#### **Tim Godwin OBE QPM, Defence and Public Safety, Accenture**

Tim was the Temporary Commissioner of the Metropolitan Police Service (MPS) in London for much of 2011. He was appointed by the Queen in December 2009 as Deputy Commissioner and stepped up to the role of Commissioner twice. Tim was the Acting Commissioner during the recent public order challenges in London. Tim joined the Police in 1981 after six years with the Merchant Navy. He was promoted up the ranks which included significant periods as a Borough Commander and as the Force Crime Manager. In 1999 he transferred on promotion to the Metropolitan Police and became the South London Crime Commander responsible for homicide investigations and combating serious and

organised crime in South London. He was promoted through the ranks to Assistant Commissioner of Territorial Policing responsible for the 32 London borough Command Units and having some 18k Police Officers and 7k police staff under his command. He was the Chair of the London Criminal Justice Board. Promoted to Deputy Commissioner of the Met in July 2009, one of only two police roles appointed by the Queen on the Home Secretary's recommendation, overseeing the development and implementation of the Met's policing plan and budget of over £3.5bn. He worked closely with the Security Services, and oversaw pan London serious and organised crime and local Territorial Policing. In addition, Tim also led on professional standards work, anti-corruption operations and was the diversity champion for the force. He was the ACPO lead for criminal justice in England and Wales and a member of the National Criminal Justice Board (NCJB), a member of the London Criminal Justice Board since 2003 and its chair since April 2006. He was a member of the Criminal Justice Operations Board; and a member of the Sentencing Council for England and Wales. Tim was also a member of the Ministerial chaired National boards - Ministerial Transition Board (the implementation of PCCs), High Level Working Gold Group (responding to the budget cuts), High Level Working Group, National Crime Agency Policing Oversight Group - overseeing the reform programme for police and criminal justice. Tim currently holds a global role in Accenture to support the development of transformational change initiatives within the Public Safety business areas. For more information please visit: [www.accenture.com](http://www.accenture.com)

#### **Chris Rampton, Capability Adviser Surveillance, CAST, Home Office**

Chris joined the Home Office in 1987 and has spent his career supporting the police and other stakeholders in making effective use of science and technology. He has worked in a number of different technical areas over this time including optics, software, operational support to major events, geographic information systems, surveillance technologies and radio communication systems. Chris is currently the Surveillance Capability Adviser within the Home Office Centre for Applied Science and Technology. His role is to provide advice to Police and Home Office policy colleagues and within CAST to provide strategic direction to the Surveillance areas of business. For more information please visit: [www.homeoffice.gov.uk](http://www.homeoffice.gov.uk)

#### **Henk Koopmans, CMO, Plextek**

Henk Koopmans is CMO of Plextek Consulting, a technology and product innovator in the Cambridge cluster. Prior to joining Plextek, Henk spent 10 years with Symbionics, helping to grow the company from a start up to one of the largest consultancies in Cambridge. He also has extensive experience with regional and national government bodies, developing new science parks around multinationals to create the open innovation 'market pull' mode. For more information please visit: [www.plextek.com](http://www.plextek.com)

#### **Scott Scheimreif, Executive Vice President of Government Programs, Iridium**

Scott is the executive vice president for Iridium's Government Programs Division, and is responsible for establishing the company's overall government sales, marketing and business development strategies with an emphasis on the U.S. defense and intelligence markets. In this role, he oversees the management and delivery of Iridium's product and services portfolio into new military and government markets while ensuring the effective execution and delivery of existing contracts, including Iridium's largest contract with the U.S. Defense Information Systems Agency (DISA). He is also responsible for the growth and management of Iridium's strategic government partner base, delivering Iridium-based solutions into this market. Scott has been with Iridium for over 10 years, more than doubling its overall government business while introducing innovative products and services to meet the evolving needs of the government marketplace. He led Iridium's strategic efforts, working closely with the U.S. Department of Defense (DoD) to design and launch a global netted service, known as the Distributed Tactical Communications Systems (DTCS), in response to an urgent operation need to provide tactical voice and data communications supporting ongoing military operations in Iraq and Afghanistan. He has overseen the modernization and evolution of the U.S. DoD dedicated Iridium gateway through critical upgrades, maximizing the value of the Iridium satellite network while ensuring seamless interoperability through the transition to Iridium NEXT, Iridium's next-generation satellite constellation. Scott also holds a bachelor's degree in Business Administration from Salisbury University and is an active member in Armed Forces Communication Electronics Association (AFCEA). For more information please visit: [www.iridium.com](http://www.iridium.com)

#### **Jonathan Byrne, Head of CDE, Centre for Defence Enterprise (CDE)**

Jonathan Byrne joined the Centre for Defence Enterprise (CDE) in 2010 as Technology Manager seeking to exploit his varied experience in defence science, Olympic Sport and the development of innovative working practices within established large organisational structures. Success in this role led to Jonathan's appointment as the new Head of CDE in October 2011, with a remit from the Minister for Defence Equipment, Support and Technology (DEST) to design and implement a 'development programme' to take CDE forward as part of delivering MOD's 'National Security through Technology' White Paper commitments. Jonathan joined MOD in 1996 undertaking research into the physiological effects of extreme high altitude exposure and the development of protective aircrew life support systems, achieving an MSc in Human Physiology from UCL. A one-year secondment to the Parliamentary Affairs and Press Office of MOD DERA at the time of its division to form Dstl and the privatised QinetiQ acted as the catalyst for a deliberate diversification in his career path to encompass technical management, business development, culture change and high-level policy advice. For more information please visit: [www.science.mod.uk/engagement/enterprise.aspx](http://www.science.mod.uk/engagement/enterprise.aspx)

#### **John Frankham, Cosworth**

John is an Electronics Engineer with 30 years' experience in the Security, Automotive and Defence industries. He has practical experience of the design of embedded systems hardware and software, high performance analogue data

acquisition and control systems. With Engineering and business management experience, including recent experience in business diversification and collaborative R&D projects. At Cosworth, John first spent 3 years as a senior design engineer, working on the company's range of high performance data acquisition and control systems. Then he took over the management of the engineering team, maintaining and supporting the complete range of motorsport data loggers and associated software. In 2000, Cosworth acquired Pectel Control Systems, and John moved temporarily to their office in Basildon, Essex, to manage the integration of their designs and product range with the Cosworth product lines. For 4 years, he managed the business unit responsible for Cosworth's suite of hardware and software for high performance wind tunnels, including the most successful Formula 1 teams of recent years. In 2009, John moved to join the new Cosworth Defence business unit, where he has filled the role of Technical Lead, delivering projects which transition products and technologies from the Cosworth's motorsport background into defence. For more information please visit: [www.cosworth.com](http://www.cosworth.com)