Security and Defence SIG
'Critical National Infrastructure in the Commercial World'
16th September 2014
Sponsored by Bird & Bird

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

Venue: Bird & Bird LLP, 15 Fetter Lane, London, EC4A 1JP

AGENDA	
12:00	Registration & Networking over lunch
13:00	Introduction to the Cambridge Wireless Security and Defence SIG from **David Chater-Lea** of **Motorola Solutions**
13:10	Welcome from sponsor, **John Drake**, Chief Operating Officer, **Bird & Bird LLP**
13:20	**Session chaired by SIG Champion, Rob Quarton of Airwave** **'Operational Technology & the Risk Management Challenge'** **Rick Crosby**, Principal Information Risk Management Specialist, **CESG** The Information Security Industry Sector has tried to resolve the Cyber Threat to Critical National Infrastructure by relabeling its services and products from 'IA' to 'Cyber Security' without really attempting to understand the context and constraints presented by Operational Technology (OT). This talk will explain why this approach is ineffective and what the real business requirement is for OT Cyber Security.
13:40	Q&A
13:45	**Session chaired by SIG Champion, Guy Kenyon of Kenyon Consulting** **'Securing the CNI - an engineering perspective'** **Hugh Boyes**, Cyber Security Lead, **The IET** The Critical National Infrastructure (CNI) is entering a period of rapid change, where society expects new technologies to provide benefits such as lower energy and water consumption, increased capacity and reduced congestion on our roads, and greater access to open data. These changes increasingly expose CNI systems to a hostile environment, where threat agents do not require proximity to their targets. Hugh will explore the use of trustworthy systems, embedding cyber-security awareness and skills into our workforce and use of standards to protect the CNI.
14:05	Q&A
14:10	**Session chaired by SIG Champion, Tim Phipps of Cambridge Consultants** **Graham Wright CBE,** CISO and Global Head of Digital Risk, **National Grid**
14:30	Q&A
14:35	**Coffee/Tea & Networking**
15:05	**Session chaired by SIG Champion, Nick Hill of Plextek Consulting** **'Protecting Critical National Infrastructure in the Commercial World'** **Adrian Grilli**, Managing Director, **JRC Ltd.** Western society is underpinned by several interlinked Critical National Infrastructures (CNI). In our modern world, these networks are increasingly interlinked – 'Smart Cities' – 'The Internet of Things', but the network on which they all depend is electricity; without electricity, our modern world grinds to a halt very quickly. Adrian will explore the challenges of managing and keeping CNI secure in an ever more complex commercial environment.
15:25	Q&A
15:30	**Session chaired by SIG Champion, Nick Hill of Plextek Consulting** **'Critical National Infrastructure and Threat Intelligence Sharing from a private sector perspective'** **Gerry McQuaid**, Group Security Relations Manager, **Vodafone Group Services Ltd** A discussion on the challenges facing the private sector running critical national infrastructure elements. Overcoming competitive issues, cross border interaction and ensuring legal compliance.
15:50	Q&A
15:55	Panel Session with all speakers chaired by **SIG Champion, David Chater-Lea** of **Motorola Solutions**
16:45	**Event Close** - Please fill in your evaluation form

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

About 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 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. For more information, please visit www.**CambridgeWireless**.co.uk

Profile of Lunch Sponsor and Host

Bird & Bird LLP

Bird & Bird is an international law firm, with a rare and invaluable grasp of strategic commercial issues. We combine exceptional legal expertise with deep industry knowledge and refreshingly creative thinking, to help clients achieve their commercial goals. They have over 1100 lawyers in 26 offices across Europe, the Middle East and Asia, as well as close ties with firms in other parts of the world. There are three key things that set Bird & Bird apart from their competitors: their deep industry knowledge, excellence in client service and international reach. These differentiators are all underpinned by our commitment to clarity, originality and passion. For more information, please visit: www.**TwoBirds**.com

John Drake, Bird & Bird LLP

John has worked in and with Bird & Bird since 1993, as a client, a management and specialist legal consultant and, since 2006, as an employee. John has twenty years' experience of running complex businesses mostly in the telecommunications and technology fields, providing leadership and new strategies and objectives to organisations facing fast changing markets, regulatory environments and shareholder priorities, usually combined with complex legal challenges.

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

Nicholas Hill, Plextek

Nicholas is Director, Defence and Security at Plextek Consulting, responsible for new business development and also capability and skills development within the sector. His role covers a range of defence and security technology areas, including: acoustics and sonar, avionics, image and signal processing, radar systems, radio communications, electronic sensing and countermeasures, and surveillance technologies. Previous to Plextek, Nick's work in the defence sector has included systems engineering for unmanned underwater vehicles and submarine wireless communications systems. Outside of the defence and security space, Nick has 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 automotive, healthcare, scientific instrumentation and telemetry systems. He graduated from Liverpool University in 1982, is as a member of the Institution of Engineering and Technology. For more information please visit: www.**Plextek**.com/defence

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

Tim Phipps, Cambridge Consultants

Tim Phipps works in the wireless business unit of Cambridge Consultants in a business development role. His expertise is in mobile & telecoms technology; and in the defence & security market. Tim has a long track record of working on leading edge wireless technology developments. He has built new business of strategic importance for manufacturers of wireless security equipment, mobile handsets and wireless communications ICs. 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. For more information please visit: www.**CambridgeConsultants**.com

Rob Quarton, 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

Profile of Speakers

Hugh Boyes, Cyber Security Lead, **The IET**

Hugh Boyes is the Cyber Security Lead at the Institution of Engineering and Technology (IET), where he focuses on developing cyber security skills initiatives for engineering and technology communities. This work is particularly focussed on the design and operation of cyber-physical systems, e.g. industrial control systems, building automation systems, etc. As part of this work Hugh works with the Trustworthy Software Initiative, particularly on aspects relating to education and awareness aspects. Hugh has written a technical briefing document for the IET and CPNI on resilience and cyber security of technology in the built environment. He is currently writing a follow on document which will provide a code of practice for cyber security in the built environment. Hugh is a Principal Fellow at WMG, University of Warwick, where he focuses on cyber resilience and the cyber security of control systems. Prior to working for the IET, his career as a project and programme manager encompassed a number of public and private sector roles, including the planning and procurement of buildings to accommodate complex technical operations. He is a Chartered Engineer, a Fellow of the IET and holds the CISSP credential issued by (ISC)2. For more information, please visit: www.**TheIET**.org/

Rick Crosby, Principal Information Risk Management Specialist, **CESG**

Rick has worked in Information Security for CESG since the late 1990's as (in turn) an IA Consultant, an Accreditor, CESG's Head of IA Policy and CESG's Technical Director for Information Risk Management. He has also undertaken two secondments to Cabinet Office, the most recent of which was to OCSIA and involved (amongst other things) the development of the Cyber Security response for the London 2012 Olympics. Rick's current role is heading the team of CESG IRM Specialists supporting (with CPNI) lead government departments in securing the Critical National Infrastructure; this includes reviewing CESG's risk Management approach to the Operational Technology on which the CNI is dependent. For more information, please visit: www.**CESG**.gov.uk

Adrian Grilli, Managing Director, **JRC Ltd.**

Adrian Grilli was appointed Managing Director of JRC in February 1996, shortly after its formation out of the 'Joint Radio Committee of the Fuel and Power Industries' which was originally constituted in 1955. The Joint Radio Company Ltd (JRC) is a joint venture between National Grid plc and the Energy Networks Association Ltd, representing the UK gas and electricity generation, transmission and distribution segments of the industry. JRC's prime responsible is managing radio spectrum allocated to those industries by Government, and also co-ordinating their interest in wider radiocommunications issues. As the importance of communications networks has grown and the Smart Grid has emerged, JRC has become active in international telecommunications fora dealing with utility telecommunications. For more information, please visit: www.**JRC**.co.uk

Gerry McQaid, Senior Manager Security Solutions, **Vodafone Group Services Ltd**

Gerry is responsible for the security relationship towards government across Vodafone Group's footprint focusing particularly on national security and critical infrastructure protection. He is currently a member of a number of relevant groups including chair of an ETSI Technical Committee and a stakeholder in cybersecurity capacity building in many markets. Prior to Vodafone Gerry was responsible for deployment of LEA Support systems globally, as well as a first responder to during major disasters. For more information, please visit: www.**Vodafone**.com/content/index.html

Graham Wright CBE, CISO and Global Head of Digital Risk and Security, **National Grid**

Graham joined National Grid as CISO and Global Head of Digital Risk in April after holding senior positions in cybersecurity with organisations including Northrop Grumman, the UK Office of Cyber Security in the Cabinet Office and the Ministry of Defence. Graham is an associate fellow for defence and security with the Royal United Services Institute and is actively supporting government sponsored academic programmes for cyber For more information, please visit: www2.**NationalGrid**.com/uk/