



# Security & Defence SIG Event 'Don't panic about IoT security, new technology will sort it out'

28<sup>th</sup> September 2016

Hosted by **OLSWANG**

The Security & Defence SIG is championed by **Paul Tindall** of **Sepura**, **Tim Phipps** of **Solarflare** and **Derek Long** of **Cambridge Consultants**

Venue: Olswang LLP, 90 High Holborn, London, WC1V 6XX

## AGENDA

**13:30** Registration, Networking & Refreshments (Lunch will not be provided)

**14:00** Introduction to Security & Defence SIG from **Paul Tindall, Sepura**

**14:05** Welcome from our host, **Anthony Waller, Partner at Olswang LLP**

**14:10** Scene Setting by **Tim Phipps, Solarflare**

**14:15** Three approaches for resolution by **Paul Tindall, Sepura**

Speakers introduced and session chaired by **Paul Tindall**

**14:30** 'What could possibly go wrong?' **Adrian Winkles, ARU**

We hear of hacking scandals in the news all the time, but what are the implications and what should we be looking out for? Let's explore some potential scenarios.

**14:45** Q&A

**14:50** 'The business case for security' **Laurence Kalman, Olswang**

Legal liability and insurance costs will provide a business case for the right amount of security to be added to IoT data. There are some specific questions that we'd like to explore. Who owns "information"? What right is there to IoT privacy? Is consent really freely given when a big corporate offers the user a "yes/no" decision on 62 pages of T&Cs? Can a small, sacrificial company carry such large liabilities?

**15:05** Q&A

**15:10** Refreshment break. Next session chaired by **Paul Tindall**

**15:40** 'New technology will solve all of our problems' **Max Heinemeyer, Darktrace**

Signature and rule based security controls are inherently reactive and do not keep up with today's threat landscape. Neither does this traditional approach work nor is it very resource-efficient because of true-positives often getting drowned in false-positives resulting in alert fatigue for analysts. The advent of the IoT adds challenges and complexity on top of this by introducing an unprecedented amount of connected devices and new technologies resulting in an even bigger attack surface. Machine learning and anomaly detection identify attacks and threats by detecting deviations from learned patterns of life for a network rather than relying on known indicators of compromise. Darktrace is used as an example to illustrate how 'smart' solutions protect enterprises against modern threat actors regardless of if the tools, techniques & procedures used by the attackers are known or unknown.

**15:55** Q&A

**16:00** 'The role of government and regulation' **Derek McAuley, University of Nottingham**

What is the role of the regulator? For a start which regulator has control? (ofcom, information commissioner, health service commissioners). What level of regulation will benefit the whole industry in protecting us from both hackers and poor corporate behaviour?

**16:15** Q&A

**16:20** **Insight from Government - Professor Anthony Finkelstein, Chief Scientific Adviser for National Security**

**16:35** Q&A

Open Forum/debate with all speakers & audience members chaired by **Tim Phipps**

**16:40** Various scenarios and questions will be posed to the audience and speakers. Questions and interaction from the audience is encouraged!

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**17:00 Closing Remarks from Paul Tindall**

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**17:05 Complete Feedback and Event Closes**

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*With the permission of the speakers, presentations will be loaded to the CW website & Slideshare on the day following the event*

### Profile of Organiser – CW (Cambridge Wireless)

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

### Profile of Host – Olswang LLP

Olswang is a pioneering firm with a distinctive approach to business law. Thanks to its decisive, connected and highly-commercial people, they have built an unparalleled technology, media and telecoms practice, which makes Olswang the firm of choice for true innovation. Headquartered in London, Olswang has an international presence spanning Belgium, France, Germany, Spain, the UK and Singapore. Its clients include major multinational corporations, companies listed on the London Stock Exchange and AIM, private-equity backed groups, established private companies as well as early stage/high growth organisations. Olswang is a Founder Member of CW and the Legal SIG which generates discussion and develops legal best practice in the wireless and technology sector. [www.olswang.com](http://www.olswang.com)

### Profiles of SIG Champions

#### **Tim Phipps, Solarflare**

Tim Phipps has built a career working for communications companies in Cambridge. He worked on mobile phone technology, as one of the first employees of TTPCom, which went on to be a FTSE listed company. At Symbionics, he helped to write the standards for WiFi and developed some of the first ICs. Tim now works for Solarflare, which provides the 40Gb Ethernet technology which powers the world's leading stock exchanges and trading companies. Tim is Technical Marketing Manager for a new class of network security products. [www.solarflare.com](http://www.solarflare.com)

#### **Paul Tindall, Sepura**

Paul Tindall works in the Technology Office at Sepura PLC where he works on Advanced Technology projects, investigates future technologies and strategies and is responsible for the company's software architecture. Prior to this Paul was the Software Architect for the Wireless Division of U-Blox where he created a novel Software Defined Modem (SDM) Platform for the latest generation of Wireless User Equipment using Model Driven Development techniques to develop Modem Physical Layers on Heterogeneous Multi-processors platforms. He was the Technical Director and Uber-Architect at TTPCom SW Business Unit where he developed wireless technology for 13 years. Paul also works in the Defence industry on a variety of MOD Defence projects. Paul has a 1<sup>st</sup> class honours degree from the Royal Military College of Science and is a Fellow of the BCS. For further information, please visit [www.sepura.com](http://www.sepura.com)

#### **Derek Long, Cambridge Consultants**

Derek is a Business Development Manager at Cambridge Consultants and specialises in the Telecoms and Mobile domain. His role is to develop business in the field of consumer and specialist telecommunications leveraging Cambridge Consultants unique strengths in the field of radio communications technologies. He has been working in mobile broadband for over 20 years and with all three generations of mobile data from the introduction of GPRS and 3G up until the introduction of LTE Advanced and 5G. His experience includes:

- Regional responsible for product portfolio and sales of RAN & core technologies and the development of cloud and virtualisation portfolio for a major infrastructure vendor.
- Delivery responsible for network technology strategy, IP transformation and spectrum auction strategy consultation projects.

- Award winning business development director of IP based voice communications systems for several global operators.
- Sales lead for several large commercial LTE single RAN network contracts in Europe, USA and Asia.  
[www.cambridgeconsultants.com](http://www.cambridgeconsultants.com)

## Profiles of Speakers

### **Professor Anthony Finkelstein, Chief Scientific Adviser, National Security**

Anthony Finkelstein was appointed Chief Scientific Adviser for National Security in December 2015. His research is based at The Alan Turing Institute and he holds a Chair in Software Systems Engineering at University College London (UCL). He is a visiting professor at Imperial College London and at the National Institute of Informatics, Tokyo, Japan. He is a Fellow of the Royal Academy of Engineering (FREng), an elected Member of Academia Europaea (MAE) and a Fellow of the City and Guilds of London Institute (FCGI). Prior to assuming his current role he was Dean of the UCL Faculty of Engineering Sciences and Head of UCL Computer Science.  
[www.gov.uk/government/organisations/national-security](http://www.gov.uk/government/organisations/national-security)

### **Max Heinemeyer, Senior Cyber Security Analyst, Darktrace**

Max is a senior consultant working for Darktrace. Before moving to the UK and joining Darktrace, he has been leading HPE's Threat & Vulnerability Management efforts in central Europe and was a member of the German Chaos Computer Club. He has worked as an ethical hacker in Penetration Testing and Red Teaming engagements as well as supporting the integration of Vulnerability Management and SIEM solutions. [www.darktrace.com](http://www.darktrace.com)

### **Laurence Kalman, Senior Associate, Olswang LLP**

Laurence works on a wide range of commercial and technology-related transactions, including outsourcing deals, licensing/franchising arrangements and sponsorship agreements. He acts for buyers and sellers on IP-heavy, cross-border M&A transactions, with a particular focus on resolving complicated business separation issues. Laurence also advises on the exploitation of IP rights and data protection matters. [www.olswang.com](http://www.olswang.com)

### **Professor Derek McAuley, Professor of Digital Economy in the School of Computer Science & Director of Horizon Digital Economy Research**

Derek is a British academic who is Professor of Digital Economy in the School of Computer Science at the University of Nottingham and Director of Horizon Digital Economy Research an interdisciplinary research institute funded through the RCUK Digital Economy programme. He acted as a Specialist Advisor to the House of Lords European Union Committee into online platforms, and Chief Innovation Officer during the founding of the Digital Catapult. He is a Fellow of the British Computer Society and member of the UKCRC, a computing research expert panel of the Institution of Engineering and Technology and BCS. [www.horizon.ac.uk](http://www.horizon.ac.uk)

### **Adrian Winkles, Senior Lecturer, Anglia Ruskin University**

Adrian is a Chartered Engineer and Chartered Information Technology Professional of the British Computer Society. He specialises in network and internet security, and organised the European chapter meeting of the Open Web Application Security Project (OWASP) on our Cambridge campus in 2014. [www.anglia.ac.uk](http://www.anglia.ac.uk)