Cybersecurity of next generation communication systems

In association with

UNIVERSITY OF SURREY

Nearly every aspect of our modern lives depends on communications technologies. Cyberspace and cybersecurity would largely cease to exist without the internet. We continue to extend comms technology in interesting and challenging ways. New services such as Starlink and Oneweb are providing satellite-based global access to the internet and challenging the existing cable network. Mobile technologies such as 5G and emerging 6G challenge radically traditional telecommunications and will deliver new services and features to users. The internet of things, harnessed to 5G will expand the number of devices online to billions, from consumer white goods to cars to medical devices and industrial control systems. All of this is focused on the management and exploitation of data which will have a profound effect on how we communicate. These developments bring new challenges and expose vulnerabilities, some already evident, others waiting to be discovered. In this session, we explore how new communications methods are likely to develop, how dependent we are becoming on them, what technology trends are likely to emerge and how their unique security profiles will require us to rethink our online digital safeguards.

Wednesday 24 May 2023

2.30pm to 6pm

University of Surrey, Guildford, and live stream

Chair

Dr Andrew Rogoyski Innovation Strategy Lead, University of Surrey

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2.30pm   **Registration opens for tour groups**

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2.30pm   **Registration and exploration of Surrey Space Centre**
Join us on a tour of Surrey's Space Centre and explore a world-leading centre of excellence in space engineering. In their labs, they carry out cutting-edge applied research covering all domains relevant to space engineering and cost-effective missions. The tour will explore the Surrey Space Centre's Clean room and Control Room. There will be two tours taking place, however they will have a limited capacity.

2.45pm   **Tour of Surrey Space Centre (Group A)**

3.15pm   **Tour of Surrey Space Centre (Group B)**

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3.30pm   **Registration and networking opens for main event**

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4pm   **Welcome and introductions**
Dr Andrew Rogoyski Innovation Strategy Lead, University of Surrey
Professor Steve Schneider Head of Department of Computer Science, University of Surrey
Danny King Managing Director, The SASIG

4.10pm   **A case study from one of the world's leading communication companies**
Richard Lush VP Operational Security, Liberty Global

In a career spanning more than 30 years, Richard has designed, implemented, protected, and infiltrated some of the most secure systems in the world, with experience in government, defence and the private sector. Having worked as a security consultant since 1998, his career has embraced everything from computer forensics, and systems architecture, to design and implementation.

Richard ran an IT consultancy business until 2013. From there, he developed CGI's managed security services as Vice President of Cyber Operational Security, leading it within 18 months to a multi-million-pound business leading the strategic direction and business development activities.

4.25pm   **6G research strategy and vision**
Bernard Hunt 5G Programme Manager, The University of Surrey

4.40pm   **Secure in operation – a mindset shift**
Gaynor Rich Group Director (VP) Cybersecurity Compliance and Deputy CISO, BT

Many people work in increasingly regulated environments and industries, with a growing requirement to demonstrate compliance with a variety of standards, regulations, and laws. This has created a burgeoning compliance industry to support this growing burden on businesses. Unfortunately, this can lead to a tick-box approach to achieving compliance with compliance being the end goal. This further expands both the psychological and operational gaps between the revenue-generating business frontline, and the security and compliance second line.

To achieve the level of change facing many organisations today and the growing regulatory landscape, organisations need a mindset shift: To secure in operation. We must make security part of the organisational DNA holistically and embedded into everything, everywhere, all at once by everybody.

4.55pm   **Data Centric Networks: The Future of Communication and its Challenges**
Nithin Thomas Founder & CEO, Klarytee

Communication networks have been transformed from simple voice and SMS networks to provide rich services using data. This has enabled the world to embrace messaging apps, social media, the Internet of Things and many more services that run over the top (OTT) of these networks. 5G and the emerging 6G standards are leveraging this change through technologies like network virtualisation and software-defined radios, which have incredible potential to change the way we work and play, but would not be possible without the shift to a data-centric network.

Nithin will explore how some of these trends are changing the way we communicate online while discussing the new security and privacy challenges that come with it and the impact it has on the way we manage our communications networks.

5.10pm   **Q&A session**

Join us for a closing Q&A session, where you'll have the chance to share your thoughts, ask questions, and get answers from our speakers regarding their sessions.

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5.30pm   **End of meeting and networking**
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About

The Security Awareness Special Interest Group (SASIG)

SASIG is a subscription-free networking forum, membership now represents thousands of organisations of all sizes from across the world and from all sectors, public and private. Its 8,300+ membership is drawn from CIOs, CISOs and their staff with responsibility for cybersecurity within their organisations. Professionals from other disciplines (risk, HR, legal, supply, etc.) and representatives from government, law enforcement and academia are also being increasingly welcomed at events. The Chatham House Rule is strictly enforced and universally respected at all meetings, and vendors and the Press are routinely excluded. Thus, the level of debate is extraordinarily revealing and rewarding.

SASIG has a members' website at www.thesasig.com. Please register here for membership.

With thanks to our Supporters…

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