



# INCOSE UK Chapter Rail Interest Group

## Secure by Design

Matt Simpson, Atkins and Darren Hepburn, Network Rail

Wednesday, 18<sup>th</sup> September 2019, London  
1700H Doors open, 1730H-1830H Event

*With an increased adoption of digital information technology in our modern railways, and the requirement for greater interconnected systems driven to improve operational performance, reliability and customer journey satisfaction, the cyber security threat landscape is dramatically increased which risk the availability and safety of modern railway systems. Matt Simpson and Darren Hepburn will explore what can be done to counter the increased security risk by the adoption of a risk management framework proven within Network Rail.*

*Matt Simpson is the Professional Head of Cyber Security and a Technical Director at Atkins. Darren Hepburn is the Chief Information Security Officer (CISO) at Network Rail. Together they will present an overview on the current application of Security Assurance Frameworks, built on proven security, systems and safety engineering standards that are being used to secure complex operational railway systems and future digital signalling technologies. They will subsequently facilitate a discussion on the current and future development of the area, and the challenges it faces.*

*Matt Simpson is a Chartered Systems Engineer and the Professional Head of Cyber Security for Atkins Global. Matt's area of expertise and experience includes industrial cyber security, transport security, security cases within safety system assurance, secure SCADA architecture and the Internet of Things. Matt has designed and implemented cyber security programmes and he managed the delivery of complex security solutions for global engineering organisations, the defence sector and UK critical national infrastructure providers including Transport for London and Network Rail.*

*Darren Hepburn is an experienced Cyber Security Professional who has led senior Information Security and Architect teams in a range of domains before taking up the role of Network Rail Telecoms CISO in 2012. Since then, Darren's remit has grown to include the security of not only the Telecoms systems but Power SCADA and Signalling, Command and Control Systems that are critical to safe and reliable UK rail operations. Darren represents the Network Rail security team at several UK and European groups where he actively advocates for embedding cyber security into railway systems and processes to ensure cyber resilient operations.*

**The meeting will take place at Atkins, Nova North, 11 Bressenden Place, Westminster, London SW1E 5BY (Arrive at the lobby and sign in for Atkins – Photo ID will be required. Proceed to the 4<sup>th</sup> floor and sign in at the Atkins reception where you will be collected.)**



**There is no charge for attendance and the event is open to non-members but places must be booked in advance. To book, obtain directions or to ask any other questions, please contact RIG Organiser, Mike Morua on [m.morua@fnc.co.uk](mailto:m.morua@fnc.co.uk) or 07763 455171. Please let me know of any special requirements.**

*The International Council on Systems Engineering (INCOSE) is an international professional society for systems engineers whose mission is to foster the definition, understanding, and practice of world-class systems engineering in industry, academia, and government*

*The INCOSE UK Rail Interest Group has been formed:*

- *To provide a forum for those interested in Systems Engineering in rail to network in a less formal environment, to exchange good practice and to provide mutual support in an area which can require some sustained perseverance;*
- *To promote, improve and share the practice of Systems Engineering within the rail industry;*
- *To foster connections with other professional bodies within rail and thereby promote cross fertilisation of knowledge and experience across sectors and community disciplines; and*
- *To promote awareness of INCOSE UK and encourage membership within the rail industry.*

*For further information about the RIG, see [www.incoseonline.org.uk](http://www.incoseonline.org.uk) and follow the 'Groups' link.*

18 September 2019