Connected Devices SIG
Boring but lucrative, the real Internet of Things
Thursday 15 December 2016
Sponsored by Rohde & Schwarz

This SIG is championed by Paul Green of **Iotic Labs**, Nick Hunn of **WiFore,** Antony Rix of **8power** and Tim Whittaker of **Cambridge Consultants**

Venue: Paston Brown Room, Homerton College, Hills Rd, Cambridge CB2 8PH

AGENDA	
10:00	**Registration and networking with refreshments**
10:30	Welcome from **Robert Driver**, CEO, **CW**
10:35	Welcome from sponsor, **Rohde & Schwarz**
10:45	Introduction to Connected Devices**, Tim Whittaker, Cambridge Consultants**
	Session chaired by SIG Champion, Antony Rix, 8power
10:55	**'Cultivating the walled gardens of IoT'**
	Usman Haque, Founder, **Thingful**
	There are already millions of connected objects around the world, and thousands of platforms handling their data. Now what? Platforms tend to be single points of failure: you outsource, and you become dependent – that's why so many companies build their own. If walled gardens are going to persist then the next phase of IoT is going to be bridging those walled gardens.
11:15	Q&A
	Paul Green, Iotic Labs
11:20	
11:40	Q&A
11.45	**Refreshments and Networking**
	Session chaired by SIG Champion, Paul Green, Iotic Labs
12.20	**'Smart infrastructure and the problem of power'**
	Antony Rix, 8power
	Some of the most valuable applications of connected devices are monitoring things in remote or hazardous locations. In real-world situations, from machinery to bridges, battery replacement can be a significant issue. We will discuss how sensors can power themselves using energy harvesting, and explore where this can be of great benefit.
12:35	Q&A
	Kudzai Mungate, Skanska
12:40	
12:55	Q&A
13:00	**Lunch and networking**
	Session chaired by SIG Champion, Tim Whittaker, Cambridge Consultants
13:45	**Who will be the winner in IoT?**
	Nick Hunn, WiFore
	Today there's a lot of debate about whether LPWAN, LTE-M or NB-IoT will be the winner, and what the opportunity is for the mobile industry. But will any of them matter? We will eventually get a communications standard which is cheap and scalable, but by that time the higher levels of the IoT architecture are probably where most of the money will be made. We look at how the value chain is evolving and ask who will really make money from the IoT?
14:05	Q&A

14:10	**Henk Koopmans & Luis Barreto, Neul**
14:30	Q&A
14:35	**Session chaired by SIG Champion** **Speaker tbc**
14:55	Q&A
15:00	**Refreshments and networking**
15:20	**Session chaired by SIG Champion** **Speaker tbc**
15:40	Q&A
15:45	**Session chaired by SIG Champion, Tim Whittaker, Cambridge Consultants** **Panel Session**
16:30	**Event closes**
	With the permission of the speakers, presentations will be loaded to the CW website on the day following the event

Profile of organisers

Cambridge Wireless (CW)

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 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 sponsor

Rohde & Schwarz

Profile to follow.

Profile of host

Homerton College

Profile to follow.

Profile of SIG Champions

Paul Green, Iotic Labs

Paul originated Arkessa in 2006 – the business that provides remote internet services to multitudes of machines. He is currently creating the services Arkessa will offer in five years' time. His professional life combined engineering and science has taken him through a variety of roles, including design and production engineering, business planning, marketing and corporate sales, mainly in the telecommunications sector. Interestingly, the first product he introduced to manufacture is now is in the Science Museum in London. A passionate and committed Christian, Paul is as excited about materials science and quantum physics as he is interested in railways, walking, skiing and the natural world.

Nick Hunn, WiFore Consulting

For the past twenty years he has been closely involved with short range wireless and communications, designing technology that helps to bring mobility to products, particularly in the areas of telematics, M2M smart energy and mobile health. He is

closely involved with the Bluetooth SIG, the Continua Alliance and other medical and wireless standards bodies. He is the author of "The Essentials of Short Range Wireless" - a book attempting to explain the application of wireless technology to product developers. Nick can be contacted at nick@wifore.com

Antony Rix, 8power

Opportunities to transform what we do can be surprising and subtle. Dr. Antony Rix helps companies large and small create new business driven by technology, through his role as Senior Consultant in Communications and Wireless at TTP. Antony has been privileged to architect, manage and deliver major product development programmes, and give precise insight through consultancy and research, working with customers worldwide. He previously co-founded a start-up, undertook R&D and standardisation at a major network operator, and studied engineering at the universities of Edinburgh and Cambridge.

Tim Whittaker, Cambridge Consultants

Cambridge Consultants was started in 1960 to pioneer the delivery of independent design and development services in electronic, mechanical and product engineering: we are one of the founder companies of the high-technology Cambridge phenomenon. Our history of world-class services is augmented by our development of intellectual property in telecommunications, software, silicon and medical devices, and by more than 20 successful spin-out ventures. Today Cambridge Consultants employs 350 engineers, scientists, project managers and technicians with offices in Cambridge, UK and Cambridge, MA in the USA; we provide the full range of services for excellent product design to a worldwide client base in the wireless, consumer, industrial and medical markets. Tim Whittaker is a System Architect in the Wireless business unit, where he has taken the technical lead in projects using radio standards like Bluetooth, ZigBee, DECT, and in the creation of specialist communications schemes for new applications, or to use new spectrum allocations. For more information, visit www.cambridgeconsultants.com

Profile of speakers

Usman Haque, Thingful @IoT_Dobson

Usman Haque is founder of Thingful [https://thingful.net/], a search engine for the Internet of Things, bringing interoperability to millions of connected objects around the world. Earlier, he launched the Internet of Things data platform Pachube.com, acquired by LogMeIn in 2011 and now known as Xively. Trained as an architect, he has created responsive environments, interactive installations, digital interface devices and dozens of mass-participation initiatives throughout the world.

Nick Hunn, WiFore

Biography as above

Antony Rix, 8power

Biography as above

Paul Green, Iotic Labs

Biography as above

Kudzai Mungate, Skanska

Biography to be confirmed.