

Internet of Things: Understanding the core challenges for the Gen Z and the Gen Alpha Consumer

1 October 2020 | 3:30 p.m. – 6:00 p.m. IST

The advancements of emerging technologies offer consumers new applications and systems aimed at providing assistance, efficiency, comfort, connectivity and entertainment. Although these new applications provide new capabilities and conveniences to consumers, there is a need to understand some of the core non-functional elements such as security, trust and privacy issues emerging from these systems including collecting sensitive data through these applications.

This workshop will provide insights and views from manufacturers, systems integrators, service providers and vertical implementations of consumer IoT applications.

Who should enrol?

- Architects and Decision makers mainly involved in consumer application industries
- Designers and Senior Program/Product Management professionals
- Network and Service Providers
- IT Organizations
- Researchers and Start-ups
- Policy Makers and Regulators
- Civil Societies
- The most important stakeholders: Users

Registration Link:

<https://ieee.webex.com/ieee/onstage/g.php?MTID=e95e733fcaeaf93e52922dea010bcc4d2>

Schedule

Internet of Things: Understanding the core challenges for the Gen Z and the Gen Alpha Consumer 1 Oct 2020		
Time (Indian Time)	Title/Description	Speaker
3:30 p.m. – 3:35 p.m.	Welcome and overview.	Sri Chandra
3:35 p.m. – 3:55 p.m.	A to Z of securing IoT in Enterprise Deployments	Subodh Gajare CISCO
3:55 p.m. – 4:15 p.m.	Home IoT: Authentication, Security and Privacy	Aloknath De Samsung
4:15 p.m. – 4:35 p.m.	The changing face of gaming: why privacy and inclusion matter	Nicholas Napp Xmark Labs, LLC
4:35 p.m. – 4:55 p.m.	Extended Reality Adoption in Industry Verticals and Challenges: A perspective	Mukesh Prabhu Wipro Technologies
5:00 p.m. – 5:30 p.m.	Panel Discussion: Data Governance Moderator: Ruth Lewis, Strategic IT Consultant Panel Speakers: <ul style="list-style-type: none"> • Brijesh Datta, Reliance Jio • Mahendra Prajapat, Samsung • Mohammed Misbahuddin, CDAC 	
5:30 p.m. – 6:00 p.m.	Q & A and Closing remarks and Vote of thanks	

A to Z of securing IoT in Enterprise Deployments

Abstract:

With an estimate of 30 to 50 billion connected device by 2025, the security of both applications and infrastructure remains a growing concern. In addition, the ability to manage IoT devices remains a strong challenge for Enterprises and IT administrators. To reduce the threat surface, we need to have a way to identify and provide the right access to these IOT devices with less manual intervention. Our next threat vector could be a motion detector camera in a workplace, or a smart building sensor.

This tech talk is field-aligned to share on the approaches and best practices adopted by leading enterprises for securing their IoT deployments. You will be introduced to the fundamentals of micro-segmentation in IoT deployments. Then, we will discuss industry standards, that on-boards devices in a novel way and provisions the right access to services the devices connect to automatically. Later, you will see how these technologies tie in to identify and protect devices. We will explore a few alternatives to on-board IoT devices and conclude with best practices adopted in IoT deployments – from cities to factories to connected buildings

Speaker:

Subodh Gajare

Lead Architect - Enterprise AI/ML IoT Security Service Provider, CISCO



Subodh Gajare has 15 years of core experience in CISCO in Platform Development, testing, designing, troubleshooting and developing solutions across technologies with key responsibilities of designing and implementing programmable networks for global customers. Subodh contributes as Research Mentor for incubating Cisco AI, 5G and IoT industry solutions He works as advisor for grooming future Technical leaders/Architects in Cisco. He represents Cisco at Cisco Live in Asia, Europe & US. He is a regular contributor to MPLS/SDN/NFV Congress, IoT SWF, Mobile World Congress, Google Cloud Next, KubeCon/Cloud Native Con. He is highly engaged with SDO bodies (IEEE, IETF, TSDSI, Smart City Council, Ethernet Alliance & SANOG).

Home IoT: Authentication, Security and Privacy

Abstract:

Many Business verticals have been leveraging Internet-of-Things (IoT) for productivity, predictability and other critical reasons. In the same spirit, Consumers at Home would also like to interconnect Digital Appliances appropriately and accrue benefits. Two key apprehensions that they have is interoperability and security pertaining to devices of various nature and sources. Over the years, we have resolved many interoperability issues through standards and forums. In this presentation, we would like to address how easy access and operation is possible while maintaining reasonable degree of Authentication, Security and Privacy for Digital Appliances at Home.

Speaker:

Dr. Aloknath De,
CTO, Samsung R&D Institute India



Dr. Aloknath De is Corporate Vice President of Samsung Electronics, S.Korea and Chief Technology Officer of Samsung R&D Institute India, Bangalore. Dr. De has over thirty years of industrial and research experiences including BEL, Nortel (Montreal), Hughes and with ST-Ericsson where he was R&D Director and Country Manager. During 2005-11, he has served as Visiting/Adjunct Professorship with IIT-Roorkee and IIT-Delhi. He holds B.Tech. from IIT, Kharagpur; M.E. from IISc, Bangalore; and Ph.D. from McGill University, Montreal. He is a recipient of 'Alexander Graham Bell Prize' in Canada. He has received 'IETE Memorial Awards' for distinguished contributions in Electronics and Communications, IDC Insights Award for Innovation in Telecom, Zinnov 2016 'Intrapreneur of the Year' award. He is a Senior Member of IEEE and a Fellow of IE, IETE and Indian National Academy of Engg (INAE). He is considered as one of 'Most Influential CIO/CTOs of India' and is cited in Marquis' Who's Who in the World (2016). He promotes science and technology linkage through IP creation, startup collaboration and innovative solutions.

The changing face of gaming: why privacy and inclusion matter

Abstract:

The past 20 years have seen massive growth in video games. The video game industry now generates four times the revenue of the movie industry, and it is far bigger than the music industry. But with such massive growth comes change and many new challenges. This talk will explore the nature of that change, the challenges it brings, and why those inside and outside of the games industry should be paying attention.

Speaker:

Nicholas Napp,
Co-Founder, Xmark Labs, LLC



Nicholas has brought over 40 products to market across a wide range of consumer and enterprise markets. He is a systems thinker with broad skills in business development; product development; innovation & technology; and strategic marketing and partnerships. He is particularly focused on the integration of strategy, technology and corporate narrative to accelerate business growth.

His prior roles include leading multiple startups; Lead External Technology Scout, North America for Sony Ericsson; and Vice-President, Animation, Rainbow Studios (sold to THQ, inc.). He is also Chairman of the Board at FabNewport, a non-profit makerspace for middle school and older students.

Extended Reality Adoption in Industry Verticals and Challenges: A perspective

Abstract:

Extended Reality (XR) adoption has been gaining momentum and expected to catch-up with the advancement in technologies. There is an anticipation that the current pandemic situation may help accelerate the demand of XR based solutions beyond Gaming and Entertainment industries. While creating XR application is no longer a Niche skill, thanks to the availability of commercial grade tools, deployment at scale and monetization of XR solutions has to overcome several challenges.

This tech talk provides a broad perspective of XR along with opportunities that are enabled through XR across industry segments. The session will cover some of the key technologies enabling the XR Adoption, opportunities /use cases that can leverage XR especially in Consumer & Retail industry. The session will highlight some of the challenges as well as opportunities in XR application creation and adoption.

Speaker:

Mukesh Prabhu,

Head - IP & Innovation, Industrial & Engineering Services, Wipro Technologies



Mukesh M Prabhu is a Distinguished Member of Technical staff and Head of IP & Innovation of Product Engineering Services at Wipro Technologies.

He received his MS from IIT Madras. M M Prabhu With over 25 years of Industry experience has extensively worked on embedded systems , mobile platforms and security. He is very passionate about incubating new technology for addressing real life business problems. His current areas of interest include Extended reality, Wearables, IoT devices security, 5G security, Video Collaboration. M M Prabhu is the co-inventor of couple of patents in the area of extended reality.

Panel Discussion: Data Governance

Moderator: Ruth Lewis

Ruth Lewis, BE (Elec), Grad Dip Digital Communications, Master of Strategic Foresight



Ruth is an experienced strategic IT consultant, qualified futurist and professional engineer, having worked across many industries, sectors and technologies with a particular focus on the innovative and ethical use of digital technology in business and in society. Ruth's career has spanned 30 years developing and designing IT solutions for her clients, as a network engineer, senior technical consultant, solutions architect, business analyst and Technology Foresight professional. Her expertise is in introducing new technologies to business, creating managed services and creating innovative governance models within organisations. Ruth's passion is to work towards the ethical development and use of technology for the good of society, enabling her clients to make wise and informed decisions and investments today to enable their preferred futures.

Panelists:

Dr. Brijesh Datta, Executive Vice President & CISO, Reliance Jio



Brijesh Datta has more than 25 years in Telecom, IT and Information Security. An ex-Army Officer and an IIT Delhi Alumini with a Master's Degree in Computer Technology, he was instrumental in defining Cyber Security practices for the Indian Army in the late 90's when this was a nascent field. Prior to joining the corporate sector in 2010, he was leading the Army's Cyber Operation's centre for 7 years and was awarded the prestigious Sena Medal on behalf of the President of India for his efforts. Brijesh is presently the CISO of Reliance Jio Infocomm Ltd, where he manages security of all Jio vertical's ranging from Telco, IT, Media, Jio Money and Payments Banking.

Mahendra Kumar Prajapat, Architect, Samsung R&D Institute India



Mahendra Kumar works as an Architect for IoT and 5G CPE Security and has an experience of 14+ years in Embedded Security. He has completed his M.Tech from IIT Delhi. Mahendra has participated in the security review panel for Indian Telecom Security Assurance requirements (ITSAR) for Mobile devices by TELECOMMUNICATION ENGINEERING CENTER(TEC), DoT. He is Involved in security discussions with UIDAI on L1 security specification and is involved in security reviews & interactions with multiple vendors (e.g. Verizon, Qualcomm).

Dr. Mohammed Misbahuddin, Joint Director, Centre for Development of Advanced Computing (CDAC)



Dr. Mohammed Misbahuddin currently works as Joint Director at Centre for Development of Advanced Computing (CDAC), Bangalore where he heads the Information Technology Systems and Services (ITSS) division. He's the Chief Investigator of Information Security Education and Awareness (ISEA) project for Karnataka State. He is the co-investigator of next generation PKI for Smart Application project. He is the initiator and co-investigator of National e- Authentication roject called "e-Pramaan" and was instrumental in drafting Standards for MeitY, Govt. of India. He has applied for 3 patents in the area of e-Authentication and has published 40+ research publications in International Journals and Conferences. His areas of interest include Information Security, Strong Authentication, PKI, Risk based Engines, Zero Trust Architectures, DNA Cryptography, DNS Security, Identity of Things.