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Internet of Things

India expo 2018



EXP NEWS



Convergence • Connecting • Convenience

NEW DELHI | 07 MARCH 18

DAY 1



SHRI VENKAIAH NAIDU
Vice President,
Government of India

The Hon'ble Vice President of India is happy to learn that India Trade Promotion Organisation (ITPO) and Exhibitions India Group is organising the 26th edition of Convergence India 2018 expo and the 2nd edition of Internet of Things 2018 expo from March 7-9, 2018 at Pragati Maidan, New Delhi. The Vice President extends his greetings and congratulations to the organisers and the participants, and wishes the event all success.



SHRI NARENDRA MODI
Prime Minister,
Government of India

It is a pleasure to know that the 26th Convergence India 2018 expo and the 2nd Internet of Things India 2018 expo are being organized from 7th to 9th March 2018 at New Delhi by the India Trade Promotion Organization and Exhibitions India Group.

I hope that the exhibitions and expo will offer a productive platform for all the stakeholders to come together and deliberate on the emerging contours of the convergence technologies.

Best wishes for the successful organization of the expo.



DR HARSH VARDHAN
Minister
Science & Technology
and Earth Sciences
Environment, Forest &
Climate Change
Government of India

I am glad to note that India Trade Promotion Organisation (ITPO) and Exhibitions India Group is organizing the 26th edition of Convergence India 2018 expo and the 2nd edition of Internet of Things 2018 expo during March 7-9, 2018 at Pragati Maidan, New Delhi.

The Government of India is committed to make the Digital India programme a success. Convergence India and the Internet of Things expos support the Government's endeavour to transform the country into a digitally empowered society and a knowledge economy.

I extend my greetings to the organisers of the expos, and also extend my wishes to all the participants as well for a successful conduct of the expos.



SHRI MANOJ SINHA
Minister of State for
Communications,
(Independent Charge)
& Minister of State for
Railways
Government of India

It is my pleasure to extend support to the 26th edition of the Convergence India 2018 expo and the 2nd edition of Internet of Things India 2018 expo, which take place from March 7-9 at Pragati Maidan, New Delhi. I am happy to note that Convergence India is the only platform which demonstrates convergence of technologies in the telecom, IT, broadcast and digital media sectors.

Convergence is an extremely relevant subject for all stakeholders in these industries, since the marginal distance between them has been continuously shrinking. In fact, the day may not be far when all these sectors will seamlessly converge into one single sector. That is the future we should all be gearing up for. Our new Telecom Policy should aid such efforts, by facilitating the creation and deployment of an ecosystem that leverages emerging technologies to enable their productive and meaningful use in improving the lives of our people.

I congratulate India Trade Promotion Organisation and Exhibitions India Group for organizing an event such as this, which will provide an opportunity for relevant stakeholders to deliberate on technical challenges, and devise robust solutions that will drive the future direction of a truly Digital India.



The IoT revolution is set to transform and redefine the future of critical industries like automotive, agriculture, healthcare, manufacturing and many others. The NASSCOM Center of Excellence - IoT is the largest innovation platform in emerging technologies of IoT, analytics, AI/ML, AR/VR and robotics for digital transformation, and is pleased to be co-organizing and associating with the IoT India 2018 expo to help build and drive a collaborative IoT ecosystem.

SANJEEV MALHOTRA
CEO
NASSCOM Center of Excellence - IoT

‘Convergence India, IoT India are an unquestionable success’



What inspired you to organise Convergence India series of expos, and how has the journey been so far?

The first Convergence India expo was held in 1992, though we had actually launched the show in 1990. It was then primarily a telecom show. During that time, there were less than 4 million fixed line telephones in India and telecommunications was a state preserve, with no private players. However, there was a whiff of allowing private sector participation in the sector. The advent of VSNL's Gateway Electronic Mail Service in 1991, and establishing of software technology parks in the same year; CNN's live coverage of Desert Storm in 1990-91; issue of the first tranche of Indian private cellular licenses, with launch of mobile telephony in 1995, were compelling factors to metamorphosise the expo towards the convergence of technologies. We were able to pick up the nuances and foresee the impact ICT would have on our lives, and were amongst the first to visualise ICT as a catalyst for innovation and future growth. By 1996, we had introduced ICT to the expo. Back in those days, the business environment wasn't as dynamic as it is today, but people were

beginning to recognise ICT as key to help enterprise reduce costs, improve processes, boost innovation, and increase productivity, etc.

Our primary objective was to accelerate the use of ICT and the uptake of services enabled by the private sector and government's considerable investments in telecommunications. Till date, the expo continues to enhance trade by attracting investments, draw more overseas companies to set up their regional offices here, spur exports and help improve the country's foreign exchange earnings, create job opportunities, etc.

Now, we are focussing on new areas like M2M, Internet of Things, artificial intelligence, robotics, AR, VR, smart home technologies, autonomous vehicles, etc.

Why did you expand Convergence India expo, and co-locate the Internet of Things India expo with it?

IoT is changing the world around us, and its implications on every aspect of life is profound. In India, IoT has become increasingly pervasive in the context of smart cities, which use technology to offer services that are intelligent, efficient, sustainable, accessible and affordable. Smart city

solutions such as smart transportation, smart infrastructure, smart energy, smart communication, smart water, smart lighting, smart metering, smart parking, etc., are provided by integrating technologies like IoT, cloud computing and AI. These solutions are set to reduce costs for governments, citizens and enterprises alike. Research reveals that smart city and IoT technologies have the potential to save governments, enterprises and citizens globally over \$5 trillion by 2022.

The IoT India 2018 expo, which began last year, seeks to advance India's global leadership in IoT, and increase the adoption of high quality IoT technologies and services throughout businesses and the public sector. It is projected that in 2020 more than 20 billion devices will be part of IoT. So, the possibilities that IoT offers are by far greater than you can imagine.

What are your thoughts on the Convergence India 2018 expo in its 26th year?

As a concept, Convergence India has come a long way since it was initiated. It was a tough challenge then, but 26 years on, it's an undeniable success. Having established a further leading

platform covering the Internet of Things, which incorporates smart cities and connectivity, Convergence India has evolved into a leading South Asian stage for connectivity and interoperability for tomorrow's technology.

What are the highlights of the expo?

Convergence India 2018 expo, and the co-located Internet of Things India 2018 expo, explore what lies ahead for information communication technology and IoT, respectively. The expos complement the Government's Make in India and Digital India campaigns, while affirming full support for creative thinking. We cover many innovative cutting-edge technologies related to telecom, broadcast, cable and satellite TV, cloud and big data, digital homes, mobile devices, film and radio, content creation, management and delivery, manufacturing, cloud, electronics, smart devices and accessories, etc. The IoT expo promises to spark that enormous wave of change in the IoT space, and is expected to enhance the focus on IoT in tackling rural and urban challenges, even as global technology firms collaborate with Indian corporates to develop new IoT and M2M solutions.

There will be a host of opportunities for startups and corporates to engage global solution providers at the IoT Ramp, Investors Forum and Start Up Planet. I am looking forward to these forums that will offer IoT startups an opportunity to demo their products and introduce their innovations to the business community, and enable these firms to pitch their ideas to leading angel investors and venture capitalists.

Has the scale of the IoT India 2018 expo expanded in its second edition?

Well, the scale of the IoT India 2018 expo has expanded significantly in its second edition. The expo is co-organised by the NASSCOM Centre of Excellence - Internet of Things (CoE-IoT), the India Trade Promotion Organisation (ITPO) and Exhibitions India Group. It is supported by the Ministry of Electronics and Information

Technology (MeitY), the Ministry of Science & Technology, and the PHD Chamber of Commerce. The Institute of Engineering & Technology (IET) is a conference partner. That's quite an achievement!

Moreover, the event brings together people who want to know more about how the devices and the infrastructure are connected; the evolving IoT market; the many industries deploying IoT projects; the various products and services that are being modernised and restructured using smart technologies, etc. The expo is attended by the best in the industry including decision makers in the industry and governments, IT companies/start ups, software platform developers, security companies, service providers, telecommunication providers, industrial automation companies,

IoT R&D organisations and incubators, and so on and so forth.

What will the expo be like this year?

Convergence India has clearly become a global stage for innovation, setting the tone for the telecom, IT, broadcast and digital media sectors for the coming year. At IoT India 2018 expo, one gets to learn exactly why IoT is relevant today from an economic, business and technology standpoint.

Last year, there were 635 participating companies across 18,000 sqm exhibit space with a record footfall of 19,000 visitors over three days. This year, too, we expect the expo to be a record setter with 684 participants from 28 countries spread over 25,000 sqm of exhibit space.

Do you draw exhibitors back to

Convergence India year after year?

Yes, we have a very high percentage of repeat customers for Convergence India from across the world. Our dedicated executive team understands the value of creating repeat customers, and that is why they are always available to help participants take better advantage of the opportunities which the expos present. The shows enable companies to find domestic and international partners, and get in front of the press. We have exhibitors who started coming with us years ago. Then again, we are always eager to welcome new clients each year. The expo provides a platform to establish a network with the local and regional/ global IT industry leaders and experts to share their best practices and experiences. The

conference sessions have cutting edge, dynamic agendas and the best speaker line-up from government and industry. People attend Convergence India looking for more business opportunities, looking for new collaboration opportunities, and for establishing their brand.

Do you think the venue plays a role in drawing exhibitors?

Yes it does, and I can't thank enough the ITPO, our co-organiser of the 11 exhibitions and conferences that we are promoting in India, including Convergence India expo and Internet of Things India expo. Pragati Maidan, which is being redeveloped into a world class Integrated Exhibition-cum-Convention Centre (IECC), will be, without doubt, one of the best venues for trade fairs globally. [E]

Cracking the code for monetization of Internet of Things



DR RISHI BHATNAGAR President Aeris Communications, India & chairperson IET-IoT Panel, India



With the advent of converging technologies, we are witnessing huge disruptions in businesses and our lives. With 50 billion devices connected worldwide, generating some 44++ zettabytes of data by 2020, this data explosion is creating a huge opportunity to capitalise on behavior of systems and people.

The question, however, remains, how much of the data generated using the IoT technology can be monetized? Is there a real market in emerging India as IoT still remains a puzzle for many?

Let us not lose all hope, after all, there is always light at the end of tunnel. According to NASSCOM, the global market for IoT in 2020 will be

worth \$373 billion in revenue, with \$194 billion from hardware and \$179 billion from software. India will account for \$10-15 billion of this total revenue. Yes, the Indian IoT market is burgeoning.

In India, there is a huge business opportunity in IoT, and given the economies of execution our nation demands, it would not be wrong to say that India will soon drive the world market for integrated solutions, in the near future. Cracking the code for the monetization of IoT requires embracing the three fundamental 'C's, that is,

- 1 Change in the project lifecycle: IT companies can no more survive on specializations, build in verticals and legacy IT competencies. Building IoT competencies, consulting practice and IoT frameworks is a must. This demands investing in reskilling. Another aspect is to move quickly from demonstrations in the Incubation Factories to Proof of Concepts (PoCs) which address the real world problems. Maturing the

PoCs to large implementations which are scalable, efficient and affordable is the key to success.

- 2 Change in the existing business model: IoT is so disruptive that even the models of doing business have not been spared. 'Per device, per month recurring fee' and 'subscription based models, are now in practice. This changes the dynamics among the suppliers and nature of contracts, risks and margins among them.

- 3 Creation of consortiums –The demand for integrated IoT services with embedded professional and managed services from clients, requires seeing competition in new light as co-opetition (a neologism coined to describe cooperative competition) where collaboration with big and small players in the IoT ecosystem defines the road to success. The paradigm shift from the

'product-centric' approach towards 'connected-services' approach is real. The higher margins we see today in connectivity and network hardware will diminish, and in the future, will not be in products at all, but in data management and related services. The products will continue to exist, but only as "portals" into the valuable services offerings, not as ends in themselves. This is creating a huge market for smart services like business intelligence, security, analytics which are predicted to corner a larger share of the overall revenue pie than they did before. Sectors, such as, power and electricity distribution, manufacturing, logistics and supply chain, automobiles, FMCG, insurance and retail can effectively utilize this data created by the IoT to gain a strong competitive advantage. [E]



Combining NAS' metering technology and applications with SenRa' network services



ALI HOSSEINI
CEO
SenRa

Two LoRaWAN companies have announced that they have set their collective sights on bringing connectivity to India, tackling some of the country's most pressing challenges – resource management and public safety and well-being, through better lit communities and cleaner, better managed water.

Nordic Automation Systems (NAS) tapped SenRa for access to the massive Indian market, as a local service provider given the LP-WAN networks SenRa has been rolling out over the last year.

NAS will combine their metering technology and applications with SenRa's network services, leveraging experience building service networks in other parts of the world (with products distributed in over 25 countries).

Headquartered in Estonia, NAS started out a few years ago as a small company creating industrial tool sensors, but grew along with the Industrial Internet of Things, becoming a provider of vertical LoRaWAN™ solutions including end-nodes, gateways and a cloud platform. They have implemented end-to-end technologies including smart metering and monitoring, smart city and industrial IoT applications, many with Semtech chips.

While NAS brings the hardware/software they manufacture and license to projects, SenRa, which is a pure-play network service provider – or Network as a Service provider (NaaS) – will handle the connectivity, and help market combined solutions throughout



India, which is the only country SenRa serves.

Both companies are part of the LoRa Alliance, a non-profit membership association initiated by industry leaders with a mission to standardize Low Power Wide Area Networks (LPWAN) being deployed around the world. The Alliance members collaborate to drive the global success of the LoRa protocol by sharing knowledge and experience to guarantee interoperability between operators in one open global standard, and their open community ecosystem continues to produce partnerships like this.

LoRa network technology is designed to connect low-cost, battery- operated sensors over long distances that were previously too challenging or cost-prohibitive to connect and is being used by many companies in India to build networks (including Tata Communications, which has a \$100M program rolling out to hundreds of cities).

With its unique penetration capability, a LoRa gateway deployed on a building or tower can connect to sensors more than 10 miles away, including electricity and

water meters.

For SenRa, the partnership with NAS accelerates their path to revenue with cost-saving and even life-saving solutions.

"We are very happy to work with NAS and have seen first-hand the finesse NAS brings into the product design and execution," said Ali Hosseini, CEO of SenRa. "At the same time, we are offering NAS access to the fastest growing IoT market in the world."

As the problem of water scarcity is growing in India, Viljo Veesaar, CEO of NAS, believes this is a mission as much as a business opportunity. "Our metering products are very simple to use and will bring first-hand awareness to people in India about their water usage, enabling them to manage their consumption and control their costs."

"We see extensive opportunities in the Asia-Pacific region and having a strong local service provider like SenRa as a partner in India is a turning point for us," Veesaar continued.

There has been a tremendous increase in the smart metering market so far and the growth does not seem to be ending at any time in the coming years. The Asia-Pacific is estimated to be the fastest growing market for smart meters.

The main factors of growth are largely driven by energy conservation, government policies,

need for more accurate billing as well as increasing smart grid deployments globally.

"We see huge growth potential in smart water metering in general, and specifically, in India, in the areas of retrofit, volumetric and ultrasonic meters," Hosseini said. "We are focusing together with NAS to progress on all three fronts and are honoured to help India with digital tools that can scale up to impact many communities and improve millions of lives."

The companies are also focusing on street lighting. "India is planning to replace most conventional street lights with LED lights across the country in the near future," Hosseini said.

"We are collaborating with NAS to connect smart luminaire controllers into street lights to increase energy efficiency while also ensuring streets are well lit and safe. We are working with community leaders to help improve operations, management and fault correction control at the individual light level and are getting very positive feedback that new initiatives by these municipalities show real progress to the citizens they serve."

The two companies will be demonstrating both water and light solutions at the IoT India 2018 expo in New Delhi from 7-9 March 2018.

Leverage manufacturing machine data for IoT analytics

The Internet of Things presents a large opportunity to fuel both business transformation and innovation acceleration. Over the past decade most of the data available is user generated, whether through email or web content and almost 90% of this data has come from the past two years, according to an independent study. But this is quite miniscule when compared to what is coming through machines. Data collected from machines is the next step in evolution of Big Data. IDC estimates that around 42% of world's data by 2020 will come from machine data. There is an opportunity to tap into the stream of data generated through these machines and applying analytics could help increase capacity, reliability, production and efficiency. Information from sensor data combined with log data is the Holy Grail for IoT Analytics.

The core philosophy that drove every Industrial Revolution has been to find the best way to boost efficiency.

This is the biggest challenge that factories today also face and IoT analytics provides the answer. IoT analytics leveraged through a platform like PTC's ThingWorx helps detect patterns automatically, provide real time anomaly detection and has predictive analytics and simulation capabilities. Implementing IoT at the factory allows for elimination of waste and optimal utilization of resources which leads to improved productivity and ultimately, a sustainable system of manufacturing.

For instance, Blue Star Limited was looking at improving its operational efficiency across its five modern manufacturing facilities in India. After an exhaustive due diligence process, during which various software vendors were evaluated, Blue Star Limited selected ThingWorx IoT Platform for its rapid application enablement, connectivity, machine learning capabilities, augmented reality, and integration with leading device cloud offerings.



With Blue Star Limited being powered by PTC's ThingWorx IoT Platform, the company will be able to utilize the latest Industry 4.0 technologies and significantly improve their productivity, innovation, operational efficiency.

The major benefit that ThingWorx provides is reduced time to deploy, CAPEX and OPEX. As a result, by leveraging ThingWorx, Blue Star Limited will deliver more robust solutions and serve their customers with preventive maintenance solutions. Thus successfully



embracing the upcoming Industrial Revolution – Industry 4.0.

The Factory of the Future represents the zenith of technological and manufacturing development. It is the perfect integration of high-tech tools and high-tech workers working together in quiet harmony to deliver maximum productivity.

EnergyBots introduces AI based ChatBot for better energy management

EnergyBots is an IoT based start-up, in pursuit of making its customers (manufacturing units, buildings, infrastructure) smart. The R&D unit at EnergyBots has been researching and building products and sensors to help customers manage their equipment and energy consumption, allowing for a more proactive and real time energy monitoring using our cloud based eBots mobile and web app.

The main objective is to bring real-time consumption information on the palm of the customer and provide means to reduce energy consumption. Our integrated app will allow customers to plan and schedule shutdown and switch on/off the equipment using our scheduler, helping the organisation to not only preempt problems but also to minimise risk.

Our products help you achieve the following:

- Track equipment level energy consumption by using our IoT products & eBots app



- Operates over wi-fi and mobile internet
- Get hourly, daily, weekly and monthly equipment reading/ consumption
- Define your own custom thresholds of equipment/energy usage
- Notification/alert on your smart phone when usage goes beyond thresholds defined

Our new app version ebotspro built on our existing cloud platform, is raising the bar by introducing artificial intelligence and conversational chatbots. These new

features ensure a constant flow of information and keep the customer apprised of the varied consumption matrix. Via our conversational chatbots we offer an "always-on" connection to our customers, eliminating fears of unresponsiveness.

EnergyBots is changing the way users of its app access information. Instead of logging into an app, seeking information on a room/area, we are using complex algorithms and behavioural trends to prompt users of any exceptions, giving trend analysis, pro-actively mining and providing advance alerting.

Customers can automate the most repetitive requests by allowing our bot to auto schedule and take over control of such repetitive tasks. Customers still have a choice to switch back to the manual mode and retain control. Our objective is to offer a transparent, direct, solution-driven and interactive communication that modern consumers have come to expect.

We strongly believe that when customers feel connected, safe and informed, the quality of the relationship is elevated, increasing opportunities of reducing consumption.

Our embedded chatbot (also known as Artificial Conversational Entity) is a complex computer algorithm and logic that adapts to machine learning, data mining, queries. It conducts a conversation via voice or textual methods through an instant messaging interface.

They can automate human tasks by translating gracefully between unstructured language and structured data. Data analysis is made easier and more interactive by our chatbot. For example, the user can simply ask: "Compare my energy consumption of last 2 weeks" and our bot picks the key words "Compare", "Energy", "Consumption", "Last", "2", "Weeks", mines the data and brings the results. Additionally, our deep learning watches for patterns, provides users with results pro-actively.

EnergyBots is providing a free download of its conversational chatbot app ebotspro along with the purchase of its products.

Launch of the lovable tea making robot – Arya

Does your tea taste the same every time? If not, meet Arya, the lovable tea making robot. Arya is the world's first tea making robot that uses fresh and real ingredients to make your custom tea. Arya will be launched at the 2nd IoT India 2018 expo at Pragati Madan, New Delhi on 7 March 2018, where it will brew your type of tea. Make your recipe online from your phone or a computer at hiarya.com. Choose the exact amount of ingredients you want. Let Arya make the perfect cup of tea for you. One can also talk to Arya by simply saying, "Hi Arya, Make me my favourite tea." and it will start making your tea. Get creative with the many flavours of tea by modifying your recipe from your phone. Arya can make tea using ingredients like *adrak* (ginger), *elaichi* (cardamom), *saunf* (fennel), *dalchini* (cinnamon), *chai masala*, *long* (cloves), *kahwa*, milk, sugar and water. Once you

perfect your tea recipe, Arya will remember it. Arya is integrated with a natural language processing engine to allow the user to talk and make a cup of tea. Imagine you're about to reach your office or home, and you want someone to make your type of tea. All you do is press a button on your phone and Arya will have your tea ready when you arrive. "Tea is one of the most important drinks - having a good cup of tea can make your day. Our mission is to make it possible for every person to get their favourite cup of tea at home, office, hotels, and malls. Advanced smart home technology allowed us to simplify the process of making a perfect cup of tea," said Akash Takyar, CEO at HiArya. With Arya, you can perfect your recipe and once done; you always get your precise flavour. Aashima Dhankhar, product manager at Yatra, said, "I have never seen a machine that you can talk to or



your kind of tea. I think, this is a new invention. I ordered my tea from my computer, and for the first time, I saw Arya make it. Wow! I am impressed." Arya is the next generation smart home product, integrated with Google Assistant, Video streaming and Natural Language Processing. Without leaving the desk, a user can watch live stream video to see how their tea is being made. "Arya is built on a propriety KernelCloud technology which will allow the robot to update new skills. With Google Assistant integration, Arya is enabled with 1000s of skills for home automation," said Jayesh Chaudhari, CTO at HiArya. "We invite everyone to come and taste the tea made by Arya. We are excited about its first public appearance," said co-founder, Rajesh Takyar. So if you want to taste your first robotic cup of tea? Just stop by at the IoT India 2018 expo.

BizRTC - A global real time communication solutions provider

BizRTC creates global real time communication (RTC) solutions, namely uMoiblity for businesses. uMoiblity Cloud communication not only meets your global communication needs today but also enables your apps and websites for communication through unique API. The solutions are supported on:

- Android,
 - iOS,
 - MacOS
 - Windows
- BizRTC Pay As You Go pricing combined with modular uMoiblity solutions allows you to pick and choose the part solution that fits your needs today and grows

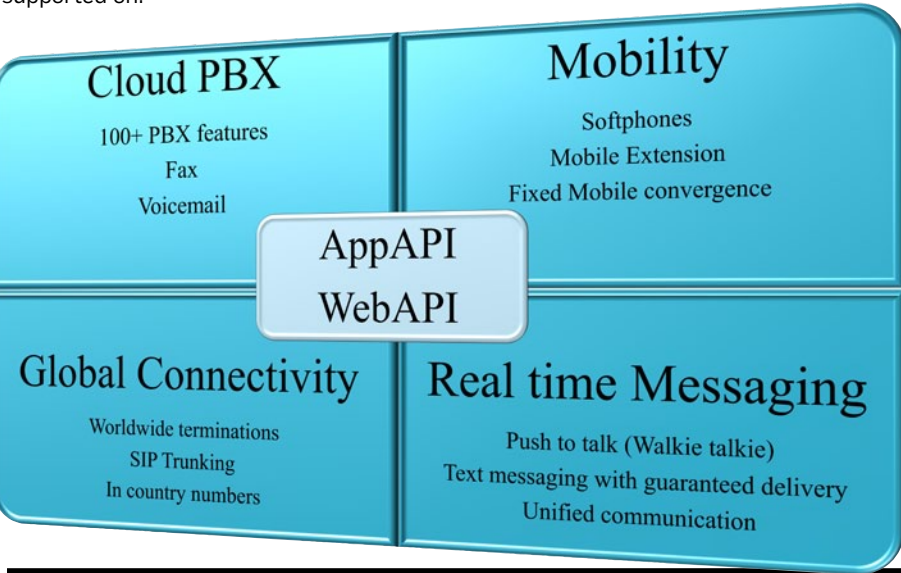
with you. Businesses select uMobility for:

- Versatility- Multiple device / OS choices,
- Global availability backed by unparalleled support in all time zones
- Flexibility – Solution components, deployment, payment and more.

Cloud PBX
Cloud PBX works with data centre gateway for scalability, reliability, ease of use, privacy and visibility. Our support for several deskphone hardware choices from Yealink, Polycom, Grandstream, Cisco and others as well as softphone platforms make up for the most cost effective solution.

Global Connectivity
No matter where you are located, uMoiblity provides you a global presence with a local number in most countries in the world. In addition, BizRTC promises the best outgoing rates for toll quality voice in the world. Moreover, incoming calls can terminate on choice of your devices –deskphones, smartphones, softphones or any combination thereof.

Real time Messaging
This business critical solution lets you connect anytime, anywhere for any content. Push to talk over mobiles is one such utility that gives you global network for secure real time text, and voice communication combo eliminating need for voice calls in most cases.



ITI Ltd offers a range of telecom products covering the whole spectrum of switching, transmission



ITI Limited is independent India's first public sector undertaking and a premier telecom equipment manufacturing company. Ever since its inception in 1948, the company is a total solution provider in telecommunications segment with a world class manufacturing facility at Bangalore. The firm has expanded to five other locations in Naini, Rae Bareilly, Mankapur, Srinagar and Palakkad. The company is successfully running an in-house R&D centre in Bengaluru, and marketing-cum-service outlets are spread across the country offering complete range of telecom products covering the whole spectrum of switching, transmission, access and subscriber premises equipment. ITI is focused on manufacturing of diversified products in defence, railway sectors and the manufacturing of solar equipment, NGN products, GPON, LED Lighting Systems, optical products, PMP microwave along with other allied products like HDPE, OFC, LI-ION batteries, smart cards, defence equipment, wi-fi, etc. ITI has proved its existence by winning a Rs 7000 crore deal of Army Static Switched Communication Network (ASCON) from the Ministry of Defence for deploying and maintaining strategic communication network across the country. The company has been honoured by Union Minister of Communications Manoj Sinha with a Certificate of Appreciation for outstanding contribution in the Government of India's flagship project,

BharatNet. The project has achieved a significant milestone by connecting over 1 lakh gram panchayats across the country with high speed optical fibre network. The tenders for phase II project are already announced and ITI is making all efforts to participate in all the tenders. The company has recently bagged an esteemed order worth Rs 800 crore for the supply of smart energy meters from Energy Efficiency Services Limited (EESL), and is planning to start the supply of equipment shortly. ITI stands at the L1 position in the BNG tender of BSNL where we are expecting an order worth Rs 279 crore. within this financial year. The company is also expecting another RQ order worth Rs 70 crore from BSNL for supply of wi-fi equipment in the coming time. ITI's Palakkad unit has successfully manufactured electronic assembly for ISRO's GSLV Mark III, providing a giant leap for India's space programme. Under the Swacchh Bharat Mission, ITI in association with the Ministry of Urban Development has started manufacturing and installing feedback devices at public toilets to regularly monitor and maintain cleanliness of toilets with support from district municipal corporation bodies. The company has already launched a website www.italtd-swacchhthafeedback.co.in to provide a real time feedback data from public toilets to concerned authorities at local, state and national level. About 1000 devices have already been

installed in municipal corporations of Delhi, Karnataka, Tamil Nadu, Gujarat and Telangana. The company is planning to explore business opportunities in the IoT, e-Governance and ICT areas in addition to telecommunication and defence projects. With the CAPEX funds, ITI is setting up a data centre with a rack space of 24,000 sq. ft. and have plans to make 150 racks space ready by March 2018. A 3D printing facility is also installed at Bangalore



plant and HDPE pipe manufacturing line at Rae Bareilly plant. These initiatives along with GPON manufacturing will make the company a strong contender to execute BharatNet Phase II project. ITI is also committed to Digital India, Make in India and Skill India initiatives, and has launched its own mobile application, ITI TAG-WALLET, to provide cashless transactions within and outside the premises. The Indian telecommunications sector being second largest in the world has witnessed an immense growth in the last two decades. The rising demand of broadband services coupled with government initiatives is driving connectivity in urban and rural areas and ITI in collaboration with the government and other regulatory bodies will surely do wonders in the coming time.





Helios Wire: The Internet of Things is ripe for democratisation



SCOTT LARSON
CEO
Helios Wire

In under a decade, the IoT is set to trigger the next industrial revolution — one that's in many ways already upon us. The market as a whole is anticipated to balloon to \$6 trillion by 2020, when it's anticipated there will be as many as 30.7 billion IoT trackers worldwide. But many of those trackers are expensive, as is cellular bandwidth.

The Helios IoT service, enabled by its satellite constellation, can provide connectivity to parts of the world where cell service and wi-fi

isn't an option. "Most IoT devices are connected through cellular service, or wi-fi, or wired internet connections," explains Scott Larson, CEO of Helios Wire. "However, much of the world doesn't yet have those options available because many places are simply too remote for that kind of infrastructure to be established."

"The problem is that up until recently, satellites have been expensive, hard to build, and hard to get into space. And as a result, satellite-enabled IoT has been equally expensive and difficult to use," Larson explains. "Helios is building a low-cost, easy-to-use product that will service markets that don't necessarily need always-on connectivity, or the ability to transfer large data sets."

Helios expects to be able to monitor up to 5 billion IoT devices, for as low as \$1 per month. "At this low price point, we can open new markets. Our anchor industries are going to be precision agriculture, logistics, oil and gas, and asset monitoring." The aim is to increase accessibility and affordability to serve small-to-mid sized customers, not only governments and fortune 500 companies.

For instance, in a democratized-IoT future, farmers with only a handful of farms could place inexpensive tags across their fields, which would allow them to monitor soil temperature, pH balance and cattle count, etc., while optimizing watering and fertilization schedules. Stored in the Cloud, that data would be housed in an app to help farmers improve returns and better prioritize resources.

In many ways, IoT is primed for this democratization. The future is now, as they say.

NASSCOM Center of Excellence – IoT aiding innovative start ups



SANJEEV MALHOTRA
CEO
NASSCOM Center of Excellence - IoT

The IoT revolution is set to transform and redefine the future of various sectors like automotive, agriculture, healthcare, manufacturing and many others. The NASSCOM Center of Excellence – IoT is the largest innovation platform bringing together enterprises and startups / SMEs in emerging technologies of IoT, analytics, AI/ML, AR/VR and robotics for digital transformation, and we are pleased to be co-organizing the 2nd IoT India 2018 expo to help build and drive a collaborative IoT eco-system.

NASSCOM Centre of Excellence – IoT was setup as part of the Digital India initiative of MeitY, with the objective of aiding innovative start-ups in the emerging technologies and was inaugurated by Union Minister for Electronics and IT Ravi Shankar Prasad and Minister for IT, BT & Tourism Priyank Kharge in Government of Karnataka. The center has a fully functional #InnovateLab with high end

equipment available to the innovators. CoE-IoT has incubated 40+ start-ups till date with 500+ virtually connected entrepreneurs in the emerging technologies space. We also help build solutions in our innovate2build program for the industry and government use cases.

To mark effective collaborations and endorse emerging technologies in different countries, CoE-IoT has enabled start-ups to participate at a global level in Germany, Singapore, China, Japan etc. The corporates in the Indian technology industry collaborate with CoE-IoT to access the innovative solutions being developed by startups / SMEs. Relevant innovators are given fully paid trips to different countries to explore the market for their product worldwide – China (big data), ZF Germany (automotive), AIRmaker Singapore and many others. We facilitate product showcase of start-ups at forums like, NILF, NPC, Connected Vehicles, Unilever IoT Week, CEATEC Japan, NASSCOM Emerge 50, Elevate 100(GoK). 10 CoE-IoT start-ups were finalists in Elevate 100 Startup meet with Taiwan.

New centers are being set up at Gurugram, Vizag and Ahmedabad in partnership with the respective state governments to surge forward in our efforts to accelerate the Indian startup eco-system and make them globally relevant.



How IoT can revolutionise field service using AR/VR



RAHUL GANAPATHY
CEO
Atusya Technologies

Maintenance and repair of complex industrial machinery is typically an expensive and time-consuming process. But now, thanks to Internet of Things (IoT)-based AR/VR, field servicing is getting more effective and cheaper.

Anyone who has worked on a manufacturing shopfloor would be familiar with the following situation: a critical machine goes down without any warning, the equipment vendor's service team arrives, but late, without the required spare parts and little experience. You end up being stressed. But such scenes could fast become a thing of the past, thanks to

industrial IoT-based field service solutions that leverage AR and VR. Until recently, AR and VR were confined to the entertainment industry and for good reason. Immersive experiences of the sort that VR offers work best when the sensory stimulus is rich in visuals, colour, and sound.

But the relentless march of technology and innovative applications by engineers have brought IoT-based AR/VR to one of the most humdrum bits of the manufacturing value chain: field servicing. With smart devices, it is now possible to get real-time data round the clock on equipment health. Start crunching the voluminous data that the devices constantly churn out, and you have the power to understand and even predict equipment behavior. An equipment with an increasing frequency of deviation from its normal functioning is telling you that it is going to go down shortly. Marry connected smart devices and big data with AR or VR technology, and you have the ability to not just monitor and predict equipment behavior, but also to fix it remotely.

Going back to our shopfloor

example, an inexperienced service technician need not waste precious time learning "on the job". Instead, he can simply connect with a senior technician in the headquarters who, using a VR headset, can virtually see the machine and walk his junior colleague through the repair steps. Using AR, the equipment maker can ensure that their technicians are properly trained for all kinds of situations. A difficult-to-repair situation can be simulated in the training room, where the technicians try their hands on fixing it virtually

using VR and AR.

The benefits to the shopfloor customer and the equipment vendor are many. Using IoT-based AR/VR technology, the vendor can drive down the cost of servicing and repair, increase the effectiveness of every visit, and minimize the downtime of equipment. For the manufacturer, there's now predictive data available on critical machinery, the most qualified technician is just a mobile application away, and the overall health of the plant improves dramatically.



Wear Soulfit Sonic to improve your health and fitness goals

Brandworks Technologies, says, "With Soulfit Sonic, the need for owning multiple gadgets is negated. We want our fitness conscious customers to track all possible fitness activities without any difficulty.

They can also wear their 'phone on their wrist' and away from carrying it all the time."

"Smart wearables are going through an interesting phase worldwide. Watches only met a specific need until now, but in our fast paced world, we seek more economical and highly functional simple gadgets," she adds.

The band is equipped with basic fitness metrics which include steps taken, calories burned, active minutes and distance travelled via the in-built pedometer. To help you stay active throughout the day, you get

notifications on the go! The Soulfit Sonic's low power sensors monitor your body, even when you are asleep. You get bed time alerts, based on your personalised sleep goals. The alarm clock wakes you up with its vibration in sync with your fitness goals.

The ideal combination for your busy and healthy lives, you can 'talk as you walk' with the handsfree calling, letting you to track fitness and attend calls. You no longer need to hold your phone at all times! Focus on enjoying your health! The Bluetooth is complemented with a 2mm speaker with a definitive sound of the music feature!

The on point algorithm of the gadget lets you keep tab on your everyday log of low and high blood pressure. You have to calibrate your blood pressure once, and then you never have to worry again. It can check your blood pressure every few seconds.

To improve your exercise routine further, the smartwatch has the heart rate monitor! State-of-the-art bio sensors from OSRAM permits to accurately measure the heart rate at all times. All information can be seen in infographics and reports on the smart phone app.

The gadget is fueled by the phone tracking feature that conveniently assists you to locate your phone during the SOS situations. Lastly, with the remote camera shoot, you can also snap the photos on your smartphone with a touch on the screen. Didn't we say the smartwatch could do more than just improve your health! To get started, all you need to do is download the HBand App (Android & IOS) and strap your band on the wrist. With a simple sign up, the data on the device can be synced to the app. The band is available in a lustrous black and can be purchased at the special price from the official website.

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Aeris is a pioneer and leader in the market of the Internet of Things. We are a leading technology provider of end-to-end IoT and machine-to-machine (M2M) services. We are the global technology partner to enterprises, with a proven history of helping our clients unlock the value of IoT. Built from the ground up for IoT and road tested at scale, Aeris IoT Services are based on the broadest technology stack in the industry, spanning connectivity up to vertical solutions. As veterans of the industry, we know that implementing an IoT solution can be complex, and we pride ourselves on making it simpler. For more than a decade, we've powered critical projects for some of the most demanding customers of IoT services today, including Hyundai, Acura, Rand McNally, Leica, and Sprint. Through our technology platform and dedicated IoT and M2M services, we strive to fundamentally improve their businesses – by dramatically reducing costs, improving operational efficiency, reducing time-to-market, and enabling new revenue streams. In India, we have partnered with leading telecom players, both state owned and private, and, Indian IT Services Providers with global presence. We are offering a rich portfolio of IoT platform services and solutions for multiple industries, including, Manufacturing, Insurance, Automotive, Fleet, Telecom, FMCG, Healthcare and Education in India, APAC and Middle East and African region.

AM Telecom has been developing and manufacturing a variety of telecom products such as LTE/3G Routers, PTT Phones, personal/vehicle tracking devices, IoT/M2M & Telematics modules, etc. We have approx. 140 R&D engineers having full experience in developing LTE/3G products and solutions enable cumulative business records with top tier operators and world-class manufacturers around the Globe. We retain very stringent quality assurance system for all of our products from the automotive business background with our Telematics solutions for various OEMs. Thus AM Telecom is rapidly expanding the business coverage to the global markets including Japan, India and multiple SE Asian countries.,
Principal / Agent

- AM Coretek India, India

From idea to design and from prototype to production, Avnet supports customers at each stage of a product's lifecycle. A comprehensive portfolio of design and supply chain services makes Avnet the go-to guide for innovators who set the pace for technological change. Avnet's position at the heart of the technology supply chain allows us to design, make, supply and deliver for customers of every size in every corner of the world. Our services span the entire spectrum of the technology product lifecycle – whether your product is still a notion on a napkin, already in production or at any point in between. For nearly a century, Avnet has helped its customers and suppliers around the world realize the transformative possibilities of technology. Learn more about Avnet at www.avnet.com.

BaseApp helps you in addressing rapidly changing technology challenges by defining, designing and building applications tailored to meet your product requirements. We follow industry standard processes, quality frameworks, using rigorous methodologies and the expertise of our engineers to reduce risk and deliver cost and time-to-market. Our Expertise: Internet of things, Computer Vision, Machine Learning and SaaS Web Applications. Our Products : NodeSense Sensing Platform , SwarmSense IoT Platform , DeepSight Computer Vision SDK.

We are an IoT solutions startup with a focus on creating smart energy monitoring & control solutions for end consumers & businesses. Our capability lies in developing end-to-end complete IoT solution viz., the IoT application stack running the solution, the Smart Device and the user interface (Mobile App or Web) for operating it. As early movers in this domain, we have rolled out some innovative smart devices the success of which have lead to us being featured in leading publications and media such as Economic Times, Your Story, NDTV Prime, The Hindu etc. Our home IoT product –Betty(a smart plug), is the highest reviewed & rated product in Amazon. We are now working with Consumer appliance OEMs & enterprises providing them simple plug & play smart remote energy management control solutions. We also have knowledge exchange industry partnerships with EU-India & IIT Delhi, for the Future Internet project that allows the team to focus on research alongside product development at the same time helping the company to stay in the forefront of technology.

BizRTC's uMobility is Business-class Voice, Fax and Push to talk (Walkie-Talkie) solution with Web API that seamlessly enables all other business applications for real time voice, video and messaging communication. BizRTC products include Voice, Video, Mobile PBX, Push to talk over IP and world class Web API for enabling Apps for real time communication. Our Patented uMobility technology is unique in supporting Voice, Data, Push to Talk (aka Real time UC) as well as business process integration. Our Patents precede all the patents granted in Fixed and Mobile space dating back to 2004 through acquisition of patent and technology portfolio. BizRTC, provider of business real time communication software, is developer of real time messaging software including voice, video, text, arbitrary objects, files and other such communication content as well as industry defined standard based protocols. BizRTC software interoperates with business systems and services provided by social media and can be deployed either in business premise or in the Cloud. BizRTC also offers rugged mobile IOT appliances. bizRTC is globally partnered with BT, Vodafone, IDT, NEC, Cisco, Polycom, Meru, Aruba, Samsung, Motorola, T-Mobile, and many others. bizRTC uMobility solution is preferred for Software as a solution, Security, Multiple device & OS support (Android, IOS, MAC, Windows) , Multiple Global Customers and Partners such as NEC distributes uMobility globally, Certifications (uMobility is the only solution for Yealink, Polycom, Cisco, Grandstream and other SIP phone manufacturers for your needs) and Global support assistance.

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EFFTRONICS SYSTEMS PVT. LTD.

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ENERGY BOTS PRIVATE LIMITED

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Brandworks Technologies was established in 2017. A new entrant in the fitness band business, the company promises to deliver innovative wearable gadgets to empower day-to-day health and fitness requirements, right from their first product itself.

Ebyte is an experienced and professional developer of various wireless modules located in Chengdu, China. As an ISO9001 QMS & ISO14001 EMS certified company, Ebyte has obtained various patents and software copyrights. And all Ebyte employees are committed to excellent quality which is our first priority. Most of our products have been FCC, CE & RoHs certified and we have been doing business in over 80 countries and areas over the world.

DynApt is purebred “Born in the Cloud” company founded by Microsoft Cloud professionals. At DynApt we do only Public Cloud and Mobility – and do it with great passion. Our Products and Accelerators personify our deep expertise in writing multi-threaded, massively parallel and scalable apps that leverage infinite scale of Public Cloud at back-end with Mobility at the front. Dynapt has products, exclusive Solution Accelerators and services for enterprise customers. Products – Kaza Suite
Dynapt has products in Analytics, IOT and Multimedia domain named as Kaza suite of products. Kaza offers enterprise grade Intelligent Remote Monitoring service using Video & IoT Sensory Data with Realtime Analytics to Uncover Actionable Insights. Key value proposition, apart from Surveillance & Security is ability to leverage existing in-store cameras to understand store layout, inventory placement and customer flow through the store helps find opportunities for maximizing upsell & cross sell opportunities by delivering customized offerings.

Established in 1985 with LED based digital display as initial product, Efftronics has now grown into one of the India's credible IOT Solution Provider with a team of 600+ Professional Employees. Backed by its own Research & Development team, Efftronics build, deployed and maintaining one of India's largest IoT network monitoring 60 Lakh signaling elements in real time spread across 9000 locations. The solution is now generating more than 22 million records per day on top of which customized real time contextual algorithms are running identifying exceptions, anomalies and patterns from the data and giving valuable insights to the customers to knowledgeable decisions. This solution brought tremendous improvement in availability of signaling assets, improved discipline in train operations and safety. Efftronics solutions for Railways include Passenger Information Systems, Digital Clocks, Remote Condition Monitoring of points, tracks, signals, LC gates, digital axle counters, power supplies, batteries and solidstate signalling assets. Efftronics has also developed fail safe equipment like LED signal lamp and Solid State Block Proving by Axle Counter confirming to Safety Integrity (4) as per European Standards. Efftronics is first to do so in India
Powered by analytical contextual algorithms, Efftronics has developed smart water distribution monitoring system for urban cities & towns. This solution enables municipal administrations to provide potable drinking water to households at right time and for sufficient duration meeting 135 LPCD guidelines of WHO. Solution provides insights for bringing down unaccounted for water to less than 15% by pinpointing overflows, probable leakages, infrastructure issues etc. Efftronics also provides solutions for Intelligent Transportation System solutions like Bus Destination displays as per urban bus specification 2.0 with E-Mark, Bus Stop Displays, Variable Message Signages as per EN 12966 compliance, Adaptive wireless traffic signaling systems, Public Announcement System etc. Efftronics has over 30 years of experience in working with LEDs. With that knowledge, Efftronics ventured into LED lighting solutions. With world class efficacies of more than 110 lumen/Watt and unconditional warranty of 5 years, Efftronics lighting solutions comes with variety of options including customizations and smart controls. Now, Efftronics also provide solutions like weather station, air quality monitoring systems for indoor and outdoor purposes. With all these years of rich experience, Efftronics is now offering IoT services for industries. The services include consultancy, implementation and managed services.

Energy Bots Private Limited.
“Conserving Energy for a green tomorrow “
Energy Bots is an IOT based organization in the business of making smart devices and designing solutions for Energy Efficient Infrastructure Management. Our sensors and smart devices, combined with the EBots app provide energy consumption data, enabling end users to understand their energy consumption, providing energy saving tips, resulting in reduction in utility bills & lowering the carbon footprint. We provide the most actionable data & insights using our products and mobile app eBots. Energy Bots has developed innovative smart devices embedded with digital intelligence that help individuals and businesses to monitor, manage and conserve energy, remotely. Our products communicate with our servers in the cloud to provide real time data on your energy consumption. Custom built Solutions from Energy Bots cover a comprehensive range of market segments from small & large business offices, Buildings, Malls, Manufacturing units, to streets and cities & homes as well.

- Product range:**
- ePlugs-6 & 16amp
 - eSwitches: Configurations of 1 to 7 -6 & 16amp with/without Motion sensors
 - Light Dimmers/Fan Regulators
 - Industrial 3 Phase meters

<ul style="list-style-type: none">Single phase metersAutomated CurtainsWater Level ControllersWater management solutions like Drip irrigationPeople counting solutions	
“Making life simpler “ Energy Bots	

EYEDENTIFY SYSTEMS PVT. LTD.

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Hongdian Corporation, founded in

Eyedentify is an automotive IOT solutions company focussed on in-vehicle occupant security. The company provides an intelligent occupant security system in vehicles that detects unwanted situations, enables real-time help, provides evidence and most importantly acts as a deterrent to crime inside vehicles. The system is designed considering all possible situations & scenarios that can happen when something is going wrong. It is intelligent enough to detect any tamper attempts and sends out alerts. Eyedentify aims to make commutes safer & worry free for passengers, drivers and family members and be an enabler for smart cities, while also making them safer.

1997, is the largest National High-Tech Enterprise in wireless IoT/M2M telecommunications field, with its core value of “Developing by cooperation and enlightening future by innovation.”concentrating on M2M/IoT research & development, after years of development and with sophisticated IPD(Integrated Product Development) process, reliable product design and complete & excellent human resource management system, Hongdian passed CMMI-3 as well as ISO 9001:2008 and obtained many certificates in System Integration and Security industry. After 20 years of development, Hongdian is now the leader of IoT/M2M industry, with many high-end products and solutions, with M2M/IoT product line(Industrial Routers, Media Wi-Fi Routers and DTU), Mobile DVR product line, intelligent water resources, and disaster predicting & early warning solutions, smart home & green energy, smart biological watch, etc.!

With the efforts of more than 300 employees, Hongdian is now playing a more and more important role in the modern society, serving customers for over 120 countries or areas till Dec, 2016!

I&C TECHNOLOGY CO., LTD.

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I&C Technology founded in 1996, It commercialize T-DMB SoC in Korea first. It accomplished design-win at the application like as smart-phone, feature phone and mobile device of SAMSUNG and LG. I&C Technology listed in KOSDAQ in 2009. In 2012, It developed Wi-Fi and PLC SoC domestically. I&C have been developing and manufacturing Wi-Fi SoC and modules for IoT devices, and AMI Infrastructures for KEPSCO.

INDUSTRIAL DEVELOPMENT BUREAU

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The New Southbound Talent Development for the Semiconductor Industry Project is together with the “Smart Electronics Industry Development and Promotion Project” platform and industrial-academic interfacing/cooperation, to promote Taiwan’s industries advantages and Job opportunities, Taiwan has introduced professionals from South-East Asia/South Asia to enter the country’s semiconductor and smart electronic industries. Taiwan has a complete semiconductor industry chain and has adopted the specialization and labor division strategy. The world’s No. 2 player in terms of total IC Industry output. With the advantages of upstream and downstream clusters of its IC industry, Taiwan is now developing a sound IoT application industry chain. International ICT and IC leading companies (such as Apple, Broadcom, and Qualcomm) have all selected Taiwan’s IC foundry and packaging/testing OEM services for the global smart system and IoT technology development.

Principal / Agent

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INXEE SYSTEMS PRIVATE LTD

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Inxee Systems Pvt Ltd is an embedded technology-centric Design House and Manufacturing company head-quartered in Delhi-NCR, India. Inxee has completed many successful projects in the domains of Automation, Automotive, Medical, Consumer and Defense Electronics. Inxee is currently executing turn-key projects in various Internet Of Things (IoT) applications such as – Smart City, Smart Home, Smart Factory, Smart Healthcare and Smart Wearables and Trackers. Inxee is creating waves in the Embedded-IoT Technology R&D services and product landscape, and has vehemently designed, manufactured and deployed embedded hardware and software products that are reliable, along with providing installation and maintenance services support seamlessly. We at Inxee believe that the Internet of Things is bringing a transformational shift to the world as we know. IoT has the potential to be the engine that powers economies for decades to come. Hence, Inxee now builds IoT products and provides services to partners and consumers, that are reliable, intelligent and ubiquitous. With the IoT market demanding fast development and deployment cycles, Inxee is shedding traditional industry practices and putting together generic IoT solutions in the form of Smart PCB modules that can be quickly customized to the target applications. Above and beyond, not only is Inxee an innovation-driven company but is also an organization that strives to build a prosperous ecosystem with its partners and helps empower people, build a better World with a better connected society - through “Design in India, Make in India”!

IOT-NCR Workshop Partner

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IOTREK TECHNOLOGY

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IOT-NCR is an open community with a focus to enable IOT/M2M enthusiasts and evangelist to learn from workshops, webinars, seminars, open projects and knowledge sharing sessions. It aspires to be India’s largest, open learning and development platform for IoT and Digital Technologies. We are only 2-year-old with 4500+ members (& counting), run as a not-for-profit and partners with likes of Microsoft, IBM, SAP, Airtel, Nagarro, Mouser, and 91SpringBoard.

IoTrek is working aggressively in developing Smart and Safe infrastructure. IoTrek commands over Low Power Sensors Technology and Machine Learning Based Application Software to develop innovative solutions for infrastructure companies. IoTrek is backed by Silicon Valley-based Alchemist Accelerator and a large FMCG Company in India.

ITI LIMITED

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India’s first Public Sector Unit (PSU) - ITI Ltd was established in 1948. As a pioneering venture in the field of communications, it has contributed to 50% of national telecom network. With state-of-the-art manufacturing facilities spread across six locations and countrywide network of marketing/service outlets, the company offers a complete range of telecom products and total solutions. Major customers are Defence, Railways, BSNL, MTNL, state governments. The company is consolidating its diversification into ICT, IoT and smart infrastructure

KRYP MEDIA PVT. LTD.

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Kryp Media aims at revolutionising the way conventional advertising is being done. Introduction of Holographic technology in the realm of Indian Advertising is not only novel but also immensely mesmerising. We create brand experiences using our ingenious holographic technology and then the result is canvassed on our bright 4k enabled high definition products, HOLOVSN and DIGIPLAY

HOLOVSN:

- Holovsn is an innovative technology that accentuates your brand by using its ingenious holographic hi-tech videos which create a floating illusion of 3D visuals in mid-air.
- Holovsn is cost-effective, Provides high resolution 3D visuals and creates a ‘Floating in mid-air’ effect DigiPlay:
- It is the next big thing in displaying adverts on facades, transforming your display space into an animated, high definition, super catchy product showcase.

• DigiPlay offers unsurpassed brightness, contrast and viewing angles making it the best choice amongst various display options.

LANTRONIX

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Lantronix, Inc. is a global provider of secure data access and management solutions for Internet of Things (IoT) assets. Our mission is to be the leading supplier of IoT solutions that enable companies to dramatically simplify the creation, deployment, and management of IoT projects while providing secure access to data for applications and people. With more than two decades of experience in creating robust machine to machine (M2M) technologies, Lantronix is an innovator in enabling our customers to build new business models and realize the possibilities of the Internet of Things. Our connectivity solutions are deployed inside millions of machines serving a wide range of industries, including industrial, medical, security, transportation, retail, financial, environmental and government. For more information, visit www.lantronix.com.

LEEUYHERTZ TECHNOLOGIES PVT. LTD.

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At HiArya, we believe technology has a power to simplify life and bring happiness. Our mission is to make a perfect cup of Chai, every time. Every individual has their preference of how they want their chai to taste. Chai is an essential beverage to keep a person active, energetic and focused. Making a good cup of chai takes time and skills. We have built the world’s first Robotic Chai Maker that uses real ingredients and your custom recipe. We are a technology company based out of Gurgaon, India.

LUMIUM DESIGN ENGINEERING PVT. LTD.

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LUMIUM Design Engineering Pvt. Ltd. is leading Product design, Engineering and Manufacturing Services firm based in USA, India and Japan. With 11 years of industry experience, LUMIUM has developed more than 350 products across various product segments/domains. From Concept to Final product, LUMIUM helps convert an Innovation brief into Value engineered and commercially viable product through Industrial designing, engineering (mech./elec.) and manufacturing services.

MCCI INTERCONNECT SOLUTIONS PVT. LTD.

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MCCI is doing LoRaWAN work (in stealth mode) since 2016, and member of the LoRa Alliance. MCCI developed a series of IoT and LoRaWAN devices named Catena 4450, Catena 4551 and Catena 4460. Nerve circuit by MCCI is for monitoring buildings' energy usage. Nerve circuit makes live utility usage monitoring simple and affordable. MCCI offers end to end solutions for building power monitoring and remote environmental sensing for smart cities and smart agriculture. MCCI-India is the distributor and partner for RedwoodComm's RWC5020A LoRa Tester in India. RedwoodComm's RWC5020A LoRa Tester is a compact all-in-one tester, providing a perfect solution for test and measurement of LoRaWAN technology, which is fully suitable for R&D, QC, and manufacturers. MCCI India is a subsidiary of MCCI Corporation (MCCI), USA. MCCI is a systems company with about 20 years' of experiences. MCCI is best known for our work in USB, almost all of which has been done for Fortune 1000 companies in the US and Asia. MCCI licensed its USB stack to Microsoft for Windows 10 IoT on the Raspberry Pi, and did the full integration. RedwoodComm-(www.redwoodcomm.com) is a provider of wireless communication test solutions. They develop and provide measurement system for R&D, mass production of broadcast system and wireless communication such as DAB, DRM, RDS, BT, GNSS and LoRa technologies.

MOBICO COMODO PRIVATE LIMITED

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Mobico Comodo, a technology product company, was founded in anticipation of the growing need throughout the urban world for a secure and convenient tool for identity and access management. Mobico is passionate about technology and have worked upon several of them to fine tune a platform that works across a multitude of identity and access management products. In truMe, we have developed a supremely secure platform on which a variety of products can be mounted to meet the identity and access needs of both the businesses/ organizations and the users in a targeted manner. TruMe is a robust platform that offers solutions across multiple access needs - Business Parks, Residential Complexes, Airports, Conferences, Stadia, Government Offices/ Vital Installations...the list is endless.

MOTHERSON INVENZEN XLAB PRIVATE LIMITED

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Motherson Invenzen XLab is a leading provider of Hardware, Software, Cloud-based Vehicle Tracking and Telematics Solutions with strong in-house R&D, Hardware fabrication and assembly capabilities and pan-India distribution channels. MI-XLAB is a subsidiary of Samvardhana Motherson Group (SMG), an \$8 Billion group with a diversified industry-leading portfolio of auto ancillary products and services. Founded in 1975, the group has 230 facilities, 24 design centers, and over 100,000 employees spread across 30 countries. Rollr is the Telematics Brand of Motherson Invenzen XLAB. Rollr Mini is the flagship product from Rollr and has been comprehensively tested on 100's of vehicle models. At Rollr, we believe in providing best in class technology and user experience to our customers. Motherson Group engineers hundreds of components that go into a making of a car and the same high level of product quality is ensured across all of our products. Our product portfolio includes wiring harness, mirrors, dashboards, door trims, bumpers, several rubber, metal and electronic components.

MRINQ TECHNOLOGIES

HALL 7B, BOOTH # POD 10

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Mrinq Technologies is a product development start-up focused on developing IOT products which will change the way we do things. Mrinq has developed innovating IOT platforms which are easy to deploy and makes the adoption of IOT easier. Mrinq is backed by a rich industry experience for 15+ years from Silicon Valley experts. Mrinq aspires to be the leader in the IOT hardware space in India.

NASSCOM CENTER OF EXCELLENCE - IOT

HALL 7C , BOOTH # 7C3

Country : India
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Website : www.coe-iot.com

NASSCOM Center of Excellence-IoT is a Digital India Initiative by MeitY, ERNET and NASSCOM to jump start the IoT ecosystem in India taking advantage of India's IT strengths and help the country attain a leadership role in the convergent areas of hardware and software. The NASSCOM Center of Excellence – IoT is the largest innovation platform in emerging technologies of IoT, Analytics, AI/ML, AR/VR and Robotics for Digital Transformation. The main objective of the CoE-IoT is to help the Indian IoT Startups leverage cutting edge technologies to build market ready products. Through the Startups Program , we aim to build industry capable talent in an entrepreneurial ecosystem by providing Incubation, Funding, Acceleration, Industry Connect and Mentoring.

NETFOUNDRY

HALL 7B, BOOTH # 7B7

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NetFoundry puts you and your apps in control of the network. Your apps can now go everywhere the Internet goes - with leading security, reliability and quality. Scale and extend to the needs of modern apps, without being held back by telcos, custom SD-WAN hardware or expensive MPLS circuits. NetFoundry's platform makes it simple to deploy on-demand, application-specific networks which have the security and reliability of a private enterprise WAN but can now extend anywhere. Each NetFoundry overlay network can be standalone, or be added to your existing WAN to meet needs such as hybrid, cloud, IoT, XaaS, B2B extranet, connected supply chain and B2C without provisioning private circuits or VPNs. NetFoundry APIs, IAM, app and platform integrations put you in control. NetFoundry networks are independent of the underlying network provider, and are accessed via NetFoundry software on cross-platform user devices and gateways. NetFoundry is a Tata Communications business. Tata Communications is a \$2.9 billion annual revenue company.

NINEBOT(BEIJING) TECH CO., LTD

HALL 7B, BOOTH # 7B18

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Website : www.segway.com www.ninebot.com

Ninebot is a privately held company headquartered in Beijing, China. Recently Ninebot strategically merged with Segway, headquartered in Bedford, New Hampshire. The combined company focuses on the research and development, design, manufacturing, distribution and sales of short-distance transportation products. The ultimate goal is to promote the evolution of our products to become the world's leading provider of mobile robotics solutions. Ninebot is well-known in Asia and Europe. Its investors include Sequoia Capital, Xiaomi Corporation and ShunWei TMT Capital. Segway boasts an international distribution network of more than 250 retail points in 80 countries. The combined company has strategic hubs in the US, Netherlands and Beijing as well as manufacturing centers in the US and China. Segway and Ninebot will also devote a great deal of attention to seamlessly connecting robotic solutions to smart phones and integrating existing technologies and future concepts, such as voice interaction and facial recognition with its robotic products – products that will be highly interactive and encourage smarter living.

OMR INDIA OUTSOURCES PRIVATE

LIMITED

HALL 7C, BOOTH # 7C26

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India Outsources ,ISO 9001:2013, ISO 27001 Certified, MSME /NSIC Approved Vendor, is a group forming diversified business solutions from Outsourcing of IT Services to Media Consultancy. We are a 15 year Old Company with Global customers of High repute. We are a Market Driven Company and believe in Mantra of 'Get it done'. IOS is equipped with worlds best Digitisation Scanners Called OPEX FALCON Scanners which are known for 40 years in terms of providing the Workflow and Quality Scanned Images. As a distributor of Opex Scanners, we have our own service team for Mission Critical and Time Framed High volume digitisation We also provide Data Entry and Conversion services for data which cannot be automated. Our Data Entry services include both Direct Manual as well as automatic Data Entry using OMR and ICR Systems, Booklet Scanning, Answer Scripts Scanning etc. In the world of Internet, We provide Location Tracking solutions of Document as well as the Scanned data of the same Document. Provides Consultancy and total solution service that can deliver a high-quality VR experience. Extensive research and development has been carried out, covering several technological factors including high quality 3DVR content creation, applications and viewers to run the content, and evaluation of vital stability during viewing. Each element has been integrated into the production system to ensure the highest quality VR experience. IN a brief following are the part of our solutions ,
Products and services
• Offline and Online Examination Solutions & Consultancy
• Digitisation Solutions
• Printing Solutions
• RFID Solutions & Consultancy
• Films VR 360 Solutions & Consultancy

PTC Conference Session Partner

HALL 7C, BOOTH # 7C2

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PTC helps companies around the world reinvent the way they design, manufacture, operate, and service things in and for a smart, connected world. In 1986 we revolutionized digital 3D design, and in 1998 were first to market with Internet-based product life-cycle management. Today, our leading industrial innovation platform and field-proven solutions enable you to unlock value at the convergence of the physical and digital worlds. With PTC, manufacturers and an ecosystem of partners and developers can capitalize on the promise of the Internet of Things and augmented reality technology today and drive the future of innovation.

QUECTEL WIRELESS SOLUTIONS

HALL 7C, BOOTH # 7C1

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Quectel Wireless Solutions is a leading global supplier of GSM/GPRS, UMTS/HSPA(+), LTE and GNSS modules. Leveraging Quectel's strong R&D capabilities, comprehensive expertise, wide variety of high quality products and consistent philosophy of putting the customer's demands at the forefront, Quectel has established itself as a reliable and trustworthy provider of wireless modules since its establishment. To completely satisfy customer's needs, Quectel not only provides a wide product range with numerous integrated features which are capable of meeting the most sophisticated requirements from all market segments, but also offers comprehensive technical support to clients in the development and testing phase. Additionally, timely help is always available from Quectel's software and hardware team throughout customer's development via phone, email and face to face meetings when necessary, which significantly reduces customer's product development time and achieves short time to market. Quectel modules can be ideally suitable for any M2M applications from Telematics, smart metering through to wireless POS, security, mHealth right up to networking and other fields. Global presence is key to the way we serve our customers, with two R&D centers, 20+ local offices, 30+ senior sales managers and 70+ distributors strategically spreading worldwide.

REDANDBLUE APPLIED INNOVATIONS PRIVATE LIMITED

HALL 7B, BOOTH # P2

Country : India
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RedandBlue LLC is a New York-based company established in the year 2007. For over 9 years, RedandBlue has been very successful in the industry through various projects. This success track motivated the company to go global, which lead to stepping into Indian market, where it established RedandBlue Applied Innovations Pvt. Ltd. The company is based at 2nd Floor, Oval Building, iLabs Technology Park, Inorbit Mall Rd, Hyderabad TG 500081 IN. RedandBlue Applied Innovations is a private limited company, which provides services such as Software Solutions, Product Development, IT Services and Consulting. Established in Jan 2016, the company has been providing various software solutions that contain different types of applications related to operating systems, computer games, business operations and more that can be used in a variety of platforms. Traveling worldwide and providing the IT needs of our clients, the company delivers the solutions that individuals and business owners can use in their day-to-day operations. In addition, our consulting services embrace the best resolves that can evaluate the issues and necessities that our clients need and face. Our mission is to provide the wide range of services that will meet the needs of our clients. Nevertheless, the company helps our clients by providing them the software that they require and it also helps them to choose the right technology and environment that best fits their needs.

RIYANIX PRIVATE LTD.
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SAP INDIA PVT LTD
Conference Session Partner
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SENRA TECH PRIVATE LIMITED
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SHENZHEN ATELEMATICS TECHNOLOGY CO., LIMITED
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SHENZHEN NEOWAY TECHNOLOGY CO., LTD
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SMART MACHINES AND STRUCTURES
HALL 7B, BOOTH # P6

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Riyanix is a full service IoT firm with a true understanding and love for product development and services. The organization is a team of innovative engineers and management specialists with a combined experience of more than 200 years.We specialize in IoT with a focus on machine to machine (M2M) communications along with database development, embedded engineering, software development, archival digitalization. Riyanix thrives on challenges that call for creative thinking and technical innovation. The company works with variety of partners and clients, ranging from established companies, independent startups, national retailers, growing nonprofits, global agencies, and indigenous groups. . We pride ourselves in creating smart systems for manufacturing industries, logistics, agriculture, transportation, government, medical arts, and in the home. In all this, our focus is a customized solution to clients' problems. And therefore, we don't build products alone, we produce answers. We make products which are specific to the client's needs and requirements, as well as those which are generic and can be used by any IoT manufacturer to augment and assist her invention. We conceive and build hardware software modules and end-to-end solutions. We focus on very high degree of innovation and craftsmanship. The products are conceptualized in our collaborating labs both in India and the US and their R&D takes place in the US. The aim is not to churn out products, but to build ideas and partnerships.

As market leader in enterprise application software, SAP (NYSE: SAP) helps companies of all sizes and industries run better. From back office to boardroom, warehouse to storefront, desktop to mobile device – SAP empowers people and organizations to work together more efficiently and use business insight more effectively to stay ahead of the competition. SAP applications and services enable more than 365,000 business and public sector customers to operate profitably, adapt continuously, and grow sustainably. For more information, visit www.sap.com

SenRa, is a PAN India Low-Power Wide-Area Network (LPWAN) provider for long range (LoRa®-based) Internet of Things (IoT) and Machine-to-Machine (M2M) applications. SenRa is a contributing member of the LoRa Alliance™ and is currently deploying LoRaWAN™ networks throughout India for projects which require secure, reliable, long distance communication at low cost. SenRa is uniquely positioned in offering PAN City solutions on a uniform network layer covering a gamut of use cases (Smart Water Meters, Smart Gas Meters, Smart Street Lighting, Smart Parking, Smart Environmental Sensors, Smart Agriculture Sensors, Smart Bins, Smart Trackers, and Smart Buildings). With SenRa's robust network platform, customers are able to easily manage their deployed devices and securely route data to their preferred application servers leveraging Cloud based IoT Platforms such as Amazon Web Services, Microsoft Azure, Thingspeak, myDevices, and Yodiwo. Protocols such as HTTP, MQTT, TCP are also supported on our network platform for easy data routing. SenRa welcomes partnerships with device developers and potential customers exploring smart solutions for their use cases. For general information you can visit our website at www.senraco.com. Developers can visit our developer portal at https://portal.senraco.io and register for a free account to explore the opportunities of joining the LoRaWAN ecosystem. For technical support you can visit our online documentation at http://docs.senraco.io or email us at support@senraco.com.

A-Telematics Technology Inc. specializes in GPS telematics hardware designing and manufacturing with more than 13 years international experience and has a product portfolio including solutions for cars, trucks, containers ,E-lock tracker & non-powered assets, trailers, and motorcycles. In addition to a line of stable and robust hardware, A-Telematics owns one of the most cost-effective and easy-to-install solutions, enabling rapid deployment of tracking capabilities for mobile assets.

Neoway Technology is dedicated to developing industrial IoT communication solutions and services. They provide wireless communication modules that support 2G, 3G, 4G, NB-IoT, and eMTC. Our products are widely applied to automatic meter reading (AMR), automotive electronics, intelligent handheld terminals, industrial/commercial equipment, security monitoring devices and other smart terminals to help customers build the most reliable IoT systems. In China, Neoway ranks top 1 in the AMR communication market for 8 years. Neoway is one of the biggest players who shipped the most 4G modules in 2016/17. Neoway focuses on customer demands and provides customer satisfactory products by making full use of our 20-year R&D experience and accumulated resources.

Srinivas Aluri, the founder of SMS has close to 20 years of experience in Structural Engineering, Rotordynamics, and Structural Health Monitoring having worked as an Engineering Scientist at West Virginia University, USA, and as a Rotordynamics Engineer at GE, Aviation, USA. Smart Machines & Structures has been established with a goal to provide superior products, services, and training for our customers in the fields of Machinery Condition Monitoring (MCM) & Structural Health Monitoring (SHM). Our MCM & SHM monitoring solutions are based on software and hardware from National Instruments™ – A Global Leader in Test, Measurement, and Solutions. SMS offers condition monitoring, modal analysis, and structural testing services. We deploy portable and multi-channel data acquisition systems, sensors, and cables required for testing. Condition monitoring data collection and analysis will be done by ISO 18436 certified analysts as required by the clients. It also offers standard and custom products based on National Instruments™ hardware & software for Machinery Condition Monitoring (MCM) & Structural Health Monitoring (SHM) applications

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XIAMEN FOUR-FAITH COMMUNICATION TECHNOLOGY CO., LTD.
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CREVAVI TECHNOLOGIES
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What is a Smart Machine or a Smart Structure?
A Smart Machine or a Structure, is one which has in-built network of sensors and associated algorithms to remotely monitor the critical performance parameters of the systems to enable its maximum performance and safety. Why Smart Machines or Structures?
Smart Machines and Structures will have lower life cycle costs due to inbuilt monitoring mechanisms that prevent catastrophic failures and costly shutdowns. Maintenance will only be done when required.

Trident Information Systems Pvt. Ltd., is one of the leading Microsoft, IBM, and ACL, partner in India, Middle East and Asia Pacific. With approx. 2 decades of experience and 250+ customers across the world, the company has a reputation of executing end-to-end implementation for ERP, CRM, mobility, IoT and Business Intelligence products, having a high degree of customer retention, and one of the firsts in certain industry verticals in India. Trident's expertise lies in trading and distribution, manufacturing, retail, logistics and services verticals. Trident has developed IoT enabled solution for Inventory Tracking, Preventive Maintenance, Mobile Asset Tracking, Energy Management, Fuel Management, and Logistics etc.

Vintech is leading IT Systems Integrator from Pune, India. It has consistently grown over last 21 years with its customer-centric approach, service commitment and best practices. It boasts of 3000+ customers across verticals like manufacturing, IT/ITES, healthcare, education & government. Professional management, 100+ qualified team, open culture and quality processes have helped Vintech maintain its leadership and win many accolades. It was recognized India's Top100 SME in 2014 by NDTV Profit-India SME Forum. In line with current trends, Vintech started investing in IoT technology. After two years of research, a complete ecosystem is developed to offer one stop IoT solution to customers, be it capturing data from things, transporting to cloud, managing devices and providing analytics. Eurotech Italy, one of the world's top 10 IoT companies, appointed Vintech as its IoT Solutions Partner for India to promote their IoT Gateways and Everywhere Cloud Platform. Vintech has invested in two start-ups to augment its IoT story – Vertaxis Futuretech and Viotal Works. Vertaxis has expertise in handling different sensors, communication and connectivity protocols. It also builds Smart Displays & Industrial Automation Solutions. Viotal Works caters to IoT & Mobile Apps, data analytics, visualisation and platform integration. Vintech also partners with Microsoft Azure, PTC Thingworx, HPE Aruba Networking and AWS. Vintech is now ready with solutions for Traction Battery Monitoring, Production Plant Monitoring, RTLS, Indoor Wayfinding, Environment Sensing, Smart Transportation etc. Principal / Agent

- Eurotech S.p.A., Italy
- HPE Aruba., United States
- Microsoft., United States

Four-Faith is a famous registered company within the Fujian Province, China. They are renowned as a science and technology innovation leader, Xiamen City key support high-tech enterprise, Internet of Things industry pioneer, Internet of Things communication technology solutions provider, smart power, smart city, intelligent water conservancy, intelligent disaster prevention and other industry solutions provider. They are focused on the Internet of Things communications equipment and intelligent terminal R & D, including production and sales for industry users, systems integrators, and mobile operators to provide competitive products, technology, programs and services. Their products are being used by customers in over 50 countries and regions around the world. They have obtained SGS certification and are ISO9001 certified, along with CE, FCC, EMC, ROHS, environmental testing and National Network Center certifications. They are focused on the world of IoT and provide an open concept of cooperation. Four-Faith, they are committed to making everything around us more intelligent and connected.

Crevavi Technologies was founded in 2012, with a vision to create innovative products and solutions in Embedded Technologies domain. The founders of Crevavi have collective industry experience of 60+ years in Robotics, Automotive, Cellular modem and Industrial products like Solar and UPS. The company has been creating IP and also delivering value added ODM projects since inception. The name “Crevavi” was coined by combination of two Sanskrit words – ‘Kriya’ (work) and ‘Bhavishya’ (Future), which in essence means “work for the future”. We keep this philosophy in our product development, focused on futuristic products. Crevavi has focused in following domains

- Embedded Design Services
- Automation
- Automotive

Embedded design – In embedded design, Crevavi offers end to end product development and has already delivered many products in Retail Billing, Tracking solutions, Solar and UPS products. **Automation** – Crevavi has products and services in “Industrie 4.0” – the new Industrial revolution, which predominantly focuses on the “cyber-physical systems”. Crevavi has developed state of the art Machine-to-Machine (M2M) IoT (internet of things) platform, to remotely diagnose and control wide variety of industrial equipment in real time, thus enabling high efficiencies in industries and service segment. Crevavi has developed products for Home Automation segment as well. Crevavi Smarty - smart switch series provides basic automation for people with smart phone. The enhanced automation is possible with Crevavi IoT products, to connect home from anywhere in the globe through internet. Crevavi is also working on development of Industrial Robotic Arm and Warehouse automation products **Automotive Electronics** – Crevavi's automotive segment addresses development in Automotive domain such as development of Immobilizers, Sensors for critical applications and solutions involving Engine management software, Cluster Board Support Package (BSP) for various automotive companies. Crevavi has catered to esteemed clients like Robert Bosch, Sogefi MNR, WeP, TVS-e, Orion, Skanray, Consul Neowatt, MicroFuzzy-Germany, Lumascape-Australia, L J Smith – (Walmart - USA) etc.

DAY 1: 07 March 2018 (Wednesday)

0945 - 1045 hrs **Opening Ceremony**

Welcome Address:

- **Mr. Prem Behl**, Chairman, Exhibitions India Group, India

Knowledge Partner Address:

- **Ms. Vidya Subramanian Nath**, Senior Research Director, Digital Media Practice, Frost & Sullivan, India

Guest of Honor Address:

Shri. Alphons Kannanthanam, Minister of State for Electronics & Information Technology and Tourism, Govt. of India

Chief Guest Address:

Shri. Manoj Sinha, Hon'ble Minister of State for Communications (Independent Charge), Ministry of Communication, Govt. of India

Concluding Remarks:

Mr. Umang Das, Chief Mentor, American Tower Corporation India

1100 - 1130 hrs **Networking break**

1130 - 1300 hrs

Conference Inaugural Session--Digital Convergence India

Discussion Points:

- The government's Digital India vision is one of the most exciting initiatives the country has embraced to leapfrog us to the 21st century. What was once a visionary notion is now the new normal: technology is really as essential utilities. Our government leaders have made it clear that broadband highways are as important as national highways. Through the government's Digital India program, infrastructure will be offered as a utility to every citizen, governance and services will be on demand, and citizens will be digitally empowered. The implementation of the Digital India program will help the country in overcoming our challenges, seizing our opportunities and providing citizens with access to better infrastructure and quality of life.

Chair: **Shri. RS Sharma**, Chairman, TRAI

Keynote Address: **Ms. Urve Palo**, Minister of Entrepreneurship and Information Technology, Republic of Estonia

Industry Address:

- **Mr. BVR Mohan Reddy**, Executive Chairman, Cyient, India
- **Mr. Pankaj Mahindroo**, Chairman FTTF & National President, ICA
- **Mr. Rajan S. Mathew**, Director General, COAI
- **Mr. Sanjay Kaul**, Managing Director – India and South Asia,Global Services Provider Business Group, Cisco
- **Mr. Alok Nath De**, CTO, Samsung
- **Mr. Sunil Bajpai**, Principal Advisor, TRAI

Conference Inaugural Session: IoT Revolutionizing India

Discussion Points:

- IoT an Ecosystem Game stem Game
- Need of eco-partners required to deliver an IoT solution (Semiconductor industry, Device & Sensor Manufacturers, Connectivity Providers, Platform Players, System Integrators)

Chair: **Mr. Raman Roy**, Chairman & Managing Director, Quattro, & Chairman, Nasscom, India

Keynote Address: **Smt. Aruna Sundararajan**, Chairman, Telecom Commission & Secretary,Dept of Telecom, Govt of India

Special Address:

- **Mr. Jim Morrish**, Head of Strategy & Partnerships, Nokia,
- **Dr. Neena Pahuja**, Director General, ERNET, India
- **Mr. Barun P Lala**, Director, Industry Vertical Sales, Hewlett Packard Enterprise, India
- **Dr. Rishi Bhatnagar**, President, Aeris India
- **Ms. Farhana Haque**, Vice President & Business Head- IoT, Vodafone India Ltd

1300 - 1400 hrs **Lunch Break**

Conference Hall “Telecom”

1400 - 1530 hrs

Session: Digital India-How the Digital Revolution is disrupting your business? Time to act & align with the new trend

Discussion Points:

- India as an economy is embracing digital technologies while reaping the ensuing benefits especially in the areas of broadband expansion, electronics manufacturing, eGovernance and citizen services delivered electronically. Big data, connected devices are transforming the way we do business today.
- Impact of digital revolution & deployment of technology
- Strengths, challenges, opportunities of the digital wave
- Education, awareness, training & empowering citizens
- Roadmap ahead

Chair: **Shri. Ashutosh Vasant**, CMD & D(POM), RailTel

Keynote Speaker: **Arvind Gupta**, Founder, Digital India Foundation

Panelists:

- **Mr. Vipin Tyagi**, Executive Director, C-DOT
- **Mr. Dev Kumar**, Chief Technical Officer, Neron Informatics
- **Mr. Sayantan Chatterjee**, Associate Director Consulting, PwC
- **Mr. Raymond Lai**, Director, Applications Engineering, EXFO Asia Pacific Pte Ltd
- **Mr. Hemant Joshi**, Partner, Deloitte Haskins & Sells LLP
- **Ms. Shikha Sayal**, Director – Sales, GSP , Cisco India

1530 - 1545 hrs **Networking Break**

1545 - 1715 hrs

Session: What is going on in the 5G World so far? Where it is leading us to?

Discussion Points:

- What does the 5G transition/disruption mean for Mobile Networks (Infrastructure/regulators, customer experience)?
- Rapid growth of Mobile Data and its impact on consumer services.
- What is the impact of various mobile devices/connections (Smart phones, tablets. PCs and M2M) on traffic? What shift is taking place between various devices/ connection types
- Rapid growth of Mobile Data and its impact on consumer services?

Chair: **Mr. Vimal Wakhlu**, Former CMD, TCIL

Special Address: **Mr. N Sivasailam**, Special Secretary, Telecom, DoT

Panelists:

Conference Hall “Broadcast”

1400 - 1530 hrs

Session: The winning formula to increase ARPUs for PayTV services

Discussion Points:

- India represents one of the largest Pay TV user base in the world. What can drive the market forward?
- What is the typical ARPU in India and how does it compare to the world?
- Within India, what are the differences we see in the viewers across the North and the South?
- What are the Value Added Services that can be provided by MSOs? (broadband, voice, OTT video, HD)
- How can QoS and QoE be enhanced to reduce churn and increase ARPU?

Chair: **Mr. Vynsley Fernandes**, Director, Castle Media Pvt Ltd, India

Keynote speaker: **Mr. Coen Vanbaar**, Senior Product Director, HansenCX, USA

Panelists:

- **Mr. Ravikant Sharma**, Solution Expert, Conax, india
- **Mr. Amit Kharbanda**,Managing Director, MYBOX Technologies Pv Ltd, India
- **Mr. Anil Malhotra**, COO, SITI Cable Netwok Ltd, India

1530 - 1545 hrs **Networking Break**

1545 - 1715 hrs

Session: Can OTT replace television in India and help the industry to grow?

Discussion Points:

- Are we seeing any difference in the type of content made for TV and OTT? And what are the possible content strategies that need to be devised?
- What kind of viewership behaviour are we seeing different for TV and for OTT?
- Are media companies able to capture the mobile base effectively?
- What kind of audience measurement can help the industry to monetize OTT just as well as television?

Is this conversation redundant. Can we look at a future in the near term that will converge both OTT and TV services?

Moderator: **Ms. Vidya Subramanian Nath**, Senior Research Director, Digital Media Practice, Frost & Sullivan

Keynote speaker: **Mr. Aditya Bhat**, Head - Jio Studios

Lead Speaker: **Dr. Shay David**, Co-founder & President, Media and Telecom, Kaltura

Panelists:

- **Mr. Thierry Fautier**, VP Video Strategy, Harmonic
- **Mr. Karthik Subramanian**, Founder & CEO, PurpleStream Convergence P Ltd
- **Mr. Koby Maluk**, OTT Video Specialist, Vimmi
- **Mr. Akash Banerji**, Head-Marketing & Partnership, Viacom18 Digital Ventures

Conference Hall “IoT”

1400 - 1530 hrs

Session: Introduction to industry 4.0: Is Industry 4.0 relevant for India?

Discussion Points:

- Market potential in India, size, current & future opportunities
- Industry 4.0 - The next big industrial revolution
- IoT platforms for the factory operations
- IoT creating enterprise value through digital industrial transformation
- Efficiencies and Monetization - Can IIoT bring both
- Unlock new value for people, assets, and operations

Chair: **Mr. Sumeet Verma**, Director, Strategic Engagements, Intel

Keynote Speaker: **Mr. Praveen Kunigal**, Director Product Management, SAP Labs India

Knowledge Paper Presentation:

- **Mr Benoy CS**, Director-Digital Transformation (ICT) Practice, Frost & Sullivan

Panelists

- **Mr. Prakash Nayak**, Director, PEnA (Power Engineering and Automation Pvt. Ltd.)
- **Mr. Venkatraman S.**, Vice President & Country General Manager IT Division, Schneider Electric
- **Mr. Sivakumar Natarajan**, Practice Head - Digital, Manufacturing & Technology Business Unit,Wipro Ltd
- **Ms. Danilar Wu**, AVP, EBN Technology, Taiwan
- **Mr. Paresch Patel**, President and CEO, System Level Solutions, Inc. USA

1530 - 1545 hrs **Networking Break**

1545 - 1715 hrs

Session: IoT transforming the transportation sector: Multimodal smart transport and logistics – A Myth or Reality for India

Discussion Points:

- Integrating public transport – metro, buses, commercial passenger vehicles
- IoT enabling end-to-end multi-modal transportation
- IoT creating urban mobility solutions
- Smart cards, smart M2M infrastructure, etc.

Chair: **Shri. Anil Srivastava**, Adviser (Infrastructure Connectivity)DG-DMEQ, NITI Aayog

Keynote Speaker: **Mr. Madhan T**, Senior Director – IOT Solutions, PTC

Panelists:

- **Mr. Ranbir Saran Das**, Chairman & Managing Director, Fairwood Group
- **Mr. Abhijit Sarkar**, Consultant, Mott MacDonald Private Ltd
- **Mr. Vijay Sethi**, Chief Information Officer & Head CSR, Hero MotoCorp Ltd
- **Mr. Atul Arya**, Head of Energy Systems Division, Panasonic
- **Mr. Vivek Singh**, CEO, Innovant International
- **Dr. Jaijit Bhattacharya**, Partner & Head, Economics, Regulatory & Policy Advisory, KPMG

1700-1715 hrs

Case Study

Presenters:

- **Mr. Rudrdeb Mitra**, Product Mentor, Google Developers

Topic: Building a successful IoT startup in transportation sector and acquiring large insurance companies as customers.

- **Mr. Vinay Solanki**, Director - Strategy & Strategic Market Development, Aeris Communications

Topic: how connected solution are transforming transportation industry and its impact on fleet mgmt., ride-sharing, ride-hailing, autonomous cars, EV, aggrega-tors, supply chain, etc.

- **Mr. Bhavani Shankar**, Head IoT Services Division, Efftronics Systems Pvt Ltd

Workshop

1400-1600 hrs

Smart Agriculture

Make your field speak with hands on workshop to build smart farming solution

DAY 2: 08 March 2018 (Thursday)

Conference Room “Telecom”

1000 - 1130 hrs

Session: Wireless Communication in 2020. Is mobile destined to be the King?

Discussion Points:

- Reaching unconnected areas that terrestrial infrastructure such as fibre and microwaves are unable to reach.
- With high data speed, will content viewership increase on Mobile making it a primary entertaining means.

Chair: **Mr. Pawan Garg**, Former Wireless Advisor, Govt of India

Panelists:

- **Mr. Steve Mills**, Global VP, Newtec
- **Mr. Amit Marwah**, Head of Customer Marketing and Communication, Nokia
- **Mr. Jishnu A**, Product Architect- Technology, Tejas Networks India Ltd.
- **Mr. Sushil Kumar**, DDG – IoT, Telecommunication Engineering Center, DoT
- **Mr. Alok Nath De**, CTO, Samsung

1130 - 1145 hrs **Networking break**

1145 - 1300 hrs

Session: Cybersecurity-A must in today’s environment

Discussion Points:

Cyber security landscape is always changing as hackers find new ways to access information, which is why creating a culture of consistent awareness of threats is so important. The importance of cybersecurity is rising. With the Internet of things and AI growing commonplace, the expectations for continued innovation and constant availability are stronger than ever. Hence, the importance of creating a cyber security culture along with training, awareness and education it of vital importance. But despite precautions, these breaches are still occurring at an alarming rate. What could companies be doing better?

Chair: **Dr. S Amar Prasad Reddy**, Director General, National Cyber Safety and Security Standards

Keynote speaker: **Mr. Saket Modi**, CEO & Co-founder, Lucideus

Panelists:

- **Mr. Debabrata Nayak**, Chief Security Officer, Huawei Telecommunications (India) Co., Ltd.
- **Mr. Kishore Kar**, Chief Business Officer, Cyber Security Integrators (I) Pvt Ltd
- **Mr. Rakshit Tandon**, Executive Director, Council of Information Security
- **Mr. Alok Gupta**, Chief Executive Officer, Pyramid Cyber
- **Mr. Marc Kahlberg**, CEO & Managing Director, Vital Intelligence Group Ltd, Israel
- **Mr. S Chandrasekhar**, Group Director, Govt Affairs & Public Policy, Microsoft India
- **Mr. Anup Pandit**, Global Marketing, Microsemi

1300 - 1400 hrs **Lunch Break**

1400 - 1530 hrs

Session: Digital Money--Transformation as seen after demonetization

Discussion Points:

Mobile wallets have gained much traction worldwide, with India taking a dive into becoming a cashless economy, it is important to understand:

- Mechanics and key drivers leading to soaring mobile wallet adoption
- Surge in mobile users and internet connectivity, coupled with the drive to achieve massive financial inclusion
- Positive regulatory developments in India
- Ongoing impediments as well as the road ahead

Chair & Keynote: **Mr. Probir Roy**, Co-founder, Paymate

Knolwedge Paper Launch: The Smart Wallet by Mazars

Panelists:

- **Mr. Kamaljeet Rastogi**, Global Head, Business Development, Mobile Financial Solutions, Mahindra Comviva
- **Mr. Bipin Preet Singh**, Founder & CEO, Mobikwik
- **Mr. Dinesh Aggarwal**, CEO, Sunshine Digitronics Pvt.

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DAY 3: 9 March 2018 (Friday)

Panelists:

- **Mr. Praveen Bhadada**, Partner - Digital Practice, Zinnov LLC
- **Mr. Himanshu Rattan**, Director, KPMG
- **Mr. Sanjay Gupta**, VP & Country Manager, NXP
- **Dr. Sushil Chandra**, Scientist 'F' and Head of Bio Medical Department at Institute of Nuclear Medicine and Allied Sciences at DRDO
- **Dr. H P Kumar**, Former CMD, NSIC

1115 - 1130 hrs **Networking break**

1130- 1230 hrs

Session: Skill Development --How IoT is transforming the employment landscape in every industry, not just IT

Discussion Points:

- Developments in employment, income and skills
- IoT changing employment landscape
- Need for institutions/academia to design courses around analytics and design platforms
- Currents status vs. potentials
- Challenges in the labour market

Chair: Mr. Jayant Krishna, ED & COO, National Skill Development Corporation

Keynote: Mr. Sunil K Chaturvedi, CEO, Automotive Skills Development Council

Panelists:

- **Mr. Sumit Peer**, Founder and CEO, Aurelius
- **Mr. Bishwanath Ganguly**, Country Manager, Forever New
- **Mr. Vijay Kumar**, Head, IET

1230- 1330 hrs

Session: IoT and emerging technologies-Part 1: AR/VR & Blockchain

Discussion Points:

- Applying blockchain and AR/VR in India
- Adoption and understanding - Is it smooth or challenging?
- Impact on Industrial productivity and sustainability
- Transforming the way business works
- Unlocking the potential

Chair: Dr. Rishi Bhatnagar, President, Aeris Technologies

Keynote Speaker: Mr. Raja Shan, Global Head, Business Development, IoT, TCS

Panelists:

- **Mr. Jaspreet Bindra**, Senior Vice President – Digital Transformation, Mahindra Group--Blockchain
- **Mr. Diwakar Singhal**, Senior Vice President, Genpact---Blockchain
- **Mr. Gaurav Dubey**, CEO & MD, ITH Technologies Pvt. Ltd---Blockchain
- **Mr. Rohit Gupta**, Director -IT and Sales, OMR India Outsources Pvt Ltd
- **Mr. Rahul Ganapathy**, CEO, Atsuya Technologies Pvt Ltd
- **Ms. Reenu Saluja**, Senior Technical Evangelists, Microsoft Corp India

1330 - 1430 hrs **Lunch Break**

1430-1530 hrs

Session: IoT and emerging technologies-Part 2 Artificial Intelligence & Robotics

Discussion Points:

- Applying robotics, machine learning and artificial intelligence in India
- Adoption and understanding - Is it smooth or challenging?
- Impact on Industrial productivity and sustainability
- Transforming the way business works
- Unlocking the potential

Chair: Dr. Rishi Bhatnagar, President, Aeris Technologies

Keynote Speaker: Mr. Ajay Gupta, VP & Head of Strategy Marketing, Ericsson

Panelist:

- **Mr. Ninad Deshpande**, Head-Marketing, B&R Industrial Automation
- **Mr. Damodar Sahu**, Consulting Partner & Head - IoT Digital, Wipro Ltd
- **Mr. Akash Takyar**, CEO, hiarya.com
- **Ms. Sherali Bansal**, Program Director & Global Practice Leader (IoT4 Manufacturing Offerings), IBM Software Labs

Workshop

1000-1200 hrs

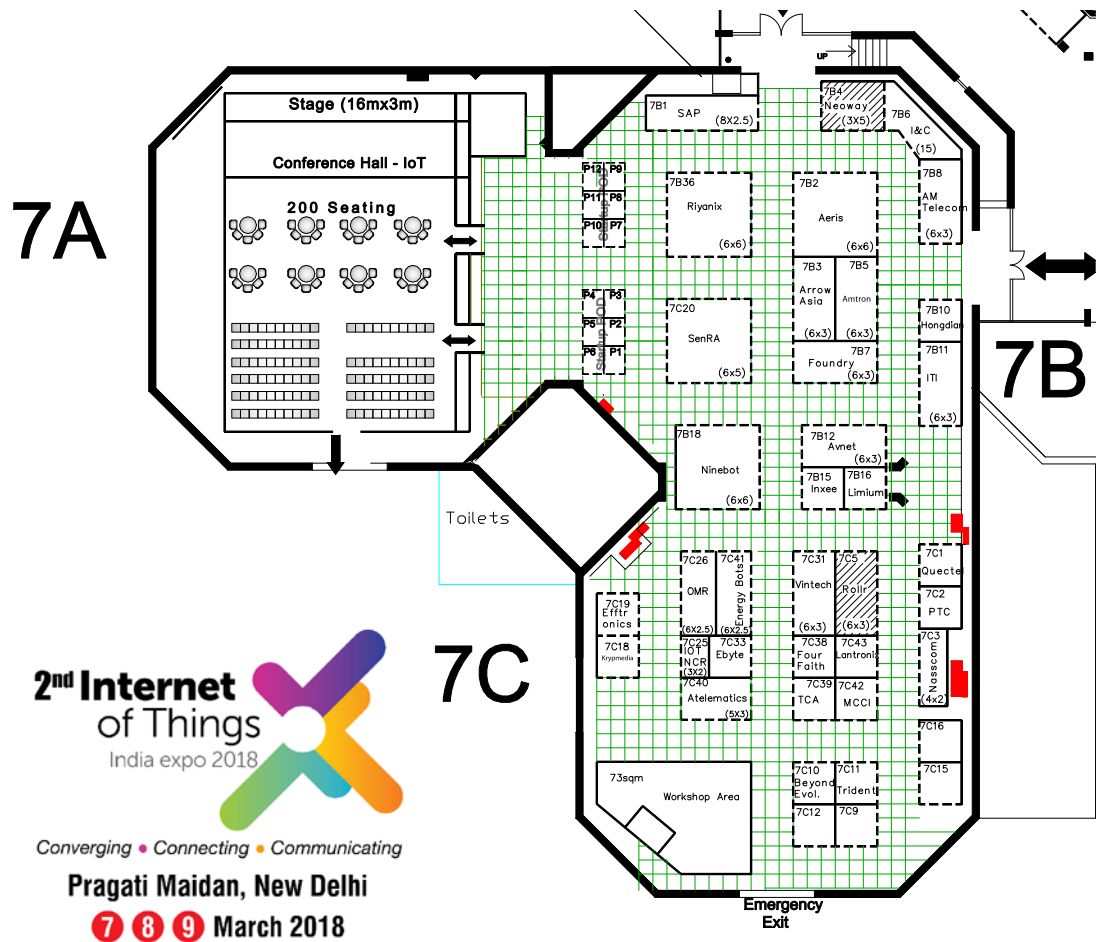
Smart Home

Smart Home solution enabled with voice activated commands

1400-1600 hrs

Connected Wearable

Connected wearable to track your kids or near and dear ones with a hands on experience building your own wearable



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