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## Tata Communications debuts ultra-low power connectivity solution to pave the way for the Internet of Things in India

*Successful field trials establish a new network for connected devices in key cities*

**Mumbai — November 3rd, 2015 —** Tata Communications, a leading provider of A New World of Communications™, today announces that it has successfully conducted trials of new Low Power Wide Area Network<sup>1</sup> (LPWAN), based on LoRa™ technology for connected devices and cutting edge Internet of Things (IoT) applications across Mumbai and Delhi. These trials will bolster successful deployment of IoT applications in India, as Gartner forecasts that there will be 4.9 billion connected things globally in 2015, reaching 25 billion by 2020<sup>2</sup> - more than three times the number of people on earth today.

Tata Communications plans to roll out India's first LoRa™ network across the country, with full coverage starting in Mumbai, Delhi and Bangalore. LoRa™ is a wireless communication technology dedicated to the Internet of Things (IoT) / Machine to Machine (M2M) communications network. The new network is a super low-power, secure, bi-directional, communication solution, which any organisation can use to connect objects and innovative applications simply and energy efficiently, overcoming high power consumption challenges with existing wireless solutions. The first phase targets to cover 400 million people across Tier 1, 2, 3 and 4 cities.

In addition to ultra-low power consumption, which allows the battery in the end device to last for more than a decade without replacement, Tata Communications' LPWAN wireless network has unprecedented reach, enabling communications in deep water and up to 50 metres underground. This makes it suitable for use in metro stations and car parks. The signal of the network is extremely strong, cutting through up to seven walls inside buildings. It is also suitable for rural areas due to its 15km range. Compared with 4G, WiFi, ZigBee or Bluetooth solutions, the LPWAN network is also more cost-effective for organisations to deploy.

Tri Pham, Chief Strategy Officer, Tata Communications, says, "Tata Communications is dedicated to enabling cutting-edge, innovative communication solutions for the digital economy. Given our global network leadership, we have a bird's eye view on how connected applications are permeating all aspects of people's lives. We see a massive need for a new smart network to enable intelligent solutions for a variety of M2M applications to facilitate a simpler and smarter way of life and at a lower cost of ownership. These trials are just the beginning; we intend to deploy this network across India and invite customers with IoT projects to work with us to test it, end-to-end."

As technology evolves into an intrinsic part of our everyday life - from predictive waste management to precision farming and geo-fencing to smart electricity meters - the IoT industry is predicted to grow exponentially, and India is

<sup>1</sup> Low-Power Wide-Area Network (LPWAN) or Low-Power Network (LPN) is a type of telecommunication network designed to allow long-range communications at a low bit rate among things (connected objects), such as sensors operated on a battery.

<sup>2</sup> <http://www.gartner.com/newsroom/id/2905717>

seen as a high-growth potential market. Industries, citizens and governments alike become key stakeholders. Tata Communications' LPWAN network, based on LoRa™ technology, is simple for organisations to deploy, as it is pre-configured with plug-and play connectivity for different industries, including manufacturing and agriculture.

"We are excited that Tata Communications has decided to deploy a LoRaWAN carrier-grade LPWAN solution across India," said Mohan Maheswaran, CEO of Semtech, the technology partner. "Tata Communications is a global leader in network and communication solutions and we are pleased to be an integral part of this new initiative. It is also a matter of great pride that after extensive testing of all available LPWAN technologies, Tata Communications chose to deploy LoRa technology in its endeavour to create and enable a brand new network for connected devices."

Tata Communications delivers world-class connectivity backed by the company's leading global fibre network. Today, over 24% of the world's Internet routes travel over Tata Communications' network and the company is the only Tier-1 provider that is in the top five by routes in five continents.

[Visit the Tata Communications pavilion at the Microsoft Future Unleashed Conference at the NESCO Convention Centre, Mumbai, on November 5th and 6th to find out more.](#)

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### About Tata Communications

Tata Communications Limited (CIN no: L64200MH1986PLC039266) along with its subsidiaries (Tata Communications) is a leading global provider of A New World of Communications™. With a leadership position in emerging markets, Tata Communications leverages its advanced solutions capabilities and domain expertise across its global and pan-India network to deliver managed solutions to multi-national enterprises, service providers and Indian consumers.

The Tata Communications global network includes one of the most advanced and largest submarine cable networks and a Tier-1 IP network with connectivity to more than 240 countries and territories across 400 PoPs, as well as nearly 1 million square feet of data centre and collocation space worldwide.

Tata Communications' depth and breadth of reach in emerging markets includes leadership in Indian enterprise data services and leadership in global international voice. Tata Communications Limited is listed on the Bombay Stock Exchange and the National Stock Exchange of India.

<http://www.tatacommunications.com>

### Forward-looking and cautionary statements

Certain words and statements in this release concerning Tata Communications and its prospects, and other statements, including those relating to Tata Communications' expected financial position, business strategy, the future development of Tata Communications' operations, and the general economy in India, are forward-looking statements. Such statements involve known and unknown risks, uncertainties and other factors, including financial, regulatory and environmental, as well as those relating to industry growth and trend projections, which may cause actual results, performance or achievements of Tata Communications, or industry results, to differ materially from those expressed or implied by such forward-looking statements. The important factors that could cause actual results, performance or achievements to differ materially from such forward-looking statements include, among others, failure to increase the volume of traffic on Tata Communications' network; failure to develop new products and services that meet customer demands and generate acceptable margins; failure to successfully complete commercial testing of new technology and information systems to support new products and services, including voice transmission services; failure to stabilize or reduce the rate of price compression on certain of the company's communications services; failure to integrate strategic acquisitions and changes in government policies or regulations of India and, in particular, changes relating to the administration of Tata Communications' industry; and, in general, the economic, business and credit conditions in India. Additional factors that could cause actual results, performance or achievements to differ materially from such forward-looking statements, many of which are not in Tata Communications' control, include, but are not limited to, those risk factors discussed in Tata Communications Limited's Annual Reports. The Annual Reports of Tata Communications Limited are available at [www.tatacommunications.com](http://www.tatacommunications.com). Tata Communications is under no obligation to, and expressly disclaims any obligation to, update or alter its forward-looking statements.

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