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PRESS RELEASE

MTNL to Deploy Indigenously Developed Carrier Ethernet Switch Routers Manufactured by ECIL

Mahanagar Telephone Nigam Limited (**MTNL**) today signed an agreement with the Electronic Corporation of India Ltd (**ECIL**) to deploy Carrier Ethernet Switch Routers (CESRs) in the city of Mumbai. The CESRs are manufactured by ECIL under license from IIT Bombay. At a ceremony held at IIT Bombay today, MTNL and ECIL signed a MOU to deploy indigenous CESRs in 8 sites across Mumbai. This is perhaps the first occasion where a carrier-class technology developed at an academic institution finds way to a tier-1 provider in India in the transport network.

The salient features of these CESRs is that these will provide for excellent service oriented communications and form the backbone of future next generation telecommunication services such as leased services, software defined networking and secure communications. Conceptualized, developed at IIT Bombay, the CESRs are now manufactured by ECIL. The CESRs have an all-time low 1-microsecond port-to-port latency that makes them fastest in the business. The low latency also translates to low power consumption and small foot-print. Being indigenous the CESRs provide an additional level of security keeping customer data safe and secure.

MTNL will deploy the CESRs in 8-sites across the island city of Mumbai in an interconnected ring topology. From each site, MTNL will offer carrier-class services to enterprise customers, government agencies and other bodies. These services would include Ethernet services, leased lines and MPLS network access from 10 Mbps to 10Gbps. The backbone of the network that would interconnect the CESRs will consist of 10Gbps links that would route Carrier Ethernet and Optical Transport Network (OTN) packets. The excellent latency, low energy consumption will be new features that would be brought out by MTNL for customers across the city of Mumbai.

Presiding over the signing ceremony, Prof. Devang Khakhar, Director, IIT Bombay commented that the deployment of IIT Bombay licensed technology would set a new benchmark in technology adoption from the IIT system to industry. It must also be noted that MTNL has deployed an earlier version of the CESRs in their data center since May 2011. Prof. Khakhar commended the visionary leadership of MTNL and thanked its Executive Director Shri Peeyush Agrawal for taking this critical step forward towards indigenization.

Shri. Peeyush Agrawal mentioned that this was indeed a historic occasion and MTNL was proud to be associated with this indigenous technology. CMD ECIL, Shri. P. Sudhakar commented on the occasion stating that ECIL was proud to have collaborated with IIT Bombay to bring this technology to the market. He also thanked MTNL for giving this opportunity to deploy the CESRs in MTNL's network.



Fig: Carrier Ethernet Switch Routers (CESRs)



Fig: Shri Peeyush Aggarwal, ED, MTNL (left) and Shri P. Sudhakar, C&MD, ECIL exchanging copies of the MoU. Shri Devang V. Khakhar, Director, IIT-Bombay and Shri Ashwin Gumaste, Institute Chair, IIT-Bombay are also seen.

About ECIL: Founded in 1967 with self-reliance as its guiding beacon, ECIL pioneered a number of products and technologies. These include Solid State Television, Digital Computers, Cockpit Voice Recorders popularly known as Black Box, Electronic Voting Machines, Programmable Logic Controllers, Earth Station and Deep Space Network Antennas. ECIL is widely recognized as a trailblazer in Electronics and Information Technology in the country.

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