

Centre for Development of Telematics (C-DoT)

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About the C-DoT

- C-DoT is an Indian Government owned telecommunications technology development centre
- **Establishment:** Centre for Development of Telematics (C-DoT) was established in August 1984 as an autonomous Telecom R&D centre of DoT, Govt. of India.
- Its goal was to develop telecommunication technology to meet the needs of the Indian telecommunication network.
- It is a registered society under the Societies Registration Act, 1860.
- **Ministry:** It is a registered 'public funded research institution' with the Department of Scientific and Industrial Research (DSIR), Ministry of Science & Technology, Government of India
- Sam Pitroda started the C-DoT as an autonomous telecom R&D organisation

Areas of work

- In the initial years, C-DoT triggered a telecom revolution in rural India that was responsible for all-round socio-economic development.
- As part of its development process, C-DoT has spawned a wide base of equipment manufacturers and component vendors for the industry.
- Moreover, it has been instrumental in the evolution of a Telecom Manufacturing Ecosystem based on its Technology Transfer model to facilitate manufacturers in the bulk production of high-quality Telecom products and solutions.
- C-DoT, over the years, has evolved into a full-fledged

telecom R&D institution, that complies with level-5 maturity on CMMI Model(Capability Maturity Model Integration), and has capabilities to undertake large-scale state-of-the-art telecom technologies development programs.

- C-DOT as a torch bearer of indigenous telecom R&D continues to develop latest technology products in areas like Optical, Switching, Wireless, Security and Network Management while also working on futuristic technologies like M2M/IOT, 5G, AI, etc.
- C-DOT reiterates its unequivocal commitment to the betterment of the country's telecom sector by **working towards realizing the objectives of various flagship programs of the Government of India that include** Digital India, Make in India, BharatNet, Skill India, Startup India and Smart Cities.

Major achievements of C-DoT

Launch of Gyan Setu and MAXNG Technologies

- 'GyanSetu' is an internet based real-time ICT system designed by C-DOT, primarily to provide various e-services to the underprivileged rural population of India.
- MAX-NG, C-DOT's Next Generation Network (NGN) solution addresses the needs of the changing telecom scenario and enables a smooth transition from Plain Old Telephone System (POTS) to NGN based Voice Over-IP (VoIP).

Launch of Broadband Products

- During Digital India Week, C-DOT launched four products and inaugurated The IP Multimedia Subsystem compliant NGN(next-generation network) Services in MTNL network.

Inauguration of Terabit Router & FTTH Solution

C-DOT has designed and developed India's first indigenous

Terabit Router. Hon'ble Minister of Communications & IT, inaugurated C-DOT Terabit Router along with GPON based Fiber-to-the-Desk solution (FTTD) during a function held at C-DOT Campus in 2014.