

IPv6 Profile

- 1st network in India to offer dual stack IPv4 & IPv6 about 6 years ago.
- IPv6 enabled applications like Domain Name Server (DNS), Mail Server, Webserver, Web-casting, Video Conferencing, e-learning etc. have been implemented on the dual stack network.
- Most user have IPv6 upto CPE level
- All POPs are IPv6 enabled
- Number of live applications running e.g multimedia applications, conferencing, Network Performance Tests etc.
- Experiments across labs in India, Europe & Asia Pacific have been undertaken on IPv6 (6LoWPAN, 6Choice, Telemedicine, Tele-consultation, Virtual Classroom, Video Conferencing etc.)
- Numerous periodic workshops, trainings, events organised to promote and train users
- Works closely with the industry and institutions to undertake research and development in the area of IT products and applications on IPv4 as well as IPv6.
- Gigabit of dedicated connectivity for experimentation running live IPv6 traffic to Asia Pacific region and the west.



IPv6 Activities

Training: Comprehensive courses on basic IT and on IPv6, providing a structured understanding of the addressing scheme, the different types of addresses machines will have, how addresses are allocated and used, the impact of IPv6 on other protocols, co-existence with IPv4, plus issues, solutions and current best practices for migrating to and implementing IPv6 in operations, products and services. The training covers areas giving you powerful insight into issues you need to be aware of and knowledge of current solutions that can be immediately applied in your work.



Extensive hands-on at ERNET's unique IPv6 training and Testing infrastructure.

Consultancy: Empanelled by DoT, GoI for providing consultancy and turnkey implementation. Extensive hands-on experience in migrating from IPv4 to IPv6 and running IPv6 services for more than half a decade.



Test & Reference Facility: ERNET has established a test facility consisting of dual stack and IPv6 only facility consisting of e-mail, DNS, Web, FTP, Video and Voice setup etc. This enables organisations and people to check their infrastructure by communication with ERNET's IPv6 only or dual stack infrastructure.



IPv6 Applications Development: ERNET has long been associated with IPv6 applications using 6LoWPAN and other software based products as part of its association with the European Union. ERNET along with partnering organisations is developing live applications for Smart Building, Smart Grid, Industrial & Agricultural Monitoring, City Surveillance, Disaster Warning and many more.....



Campus Networking: With its extensive LAN and WAN experience on both wireline and wireless networks, and empanelled by DoT, GoI for turnkey IPv6 Campus implementation, ERNET is the ideal choice for Institutions wanting to Implement, extend or renovate their campus infrastructure on v6.



Hosting and Co-location Infrastructure

ERNET provides web, mail, DNS and other hosting services to its customers. All these services are provided in a secured environment running both IPv4 and IPv6 on each application.



Dual Stack both IPv4 and IPv6 enabled

Tele-consultation Infrastructure



The vast span of India needs to leverage on the expanded capabilities on IT and communication technologies coupled with the advantages of IPv6 to bring the doctor and best healthcare service at the doorstep of every village. Pilot tests done internally.

Smart Buildings making Smart Cities



With so many devices and gadgets in every building, it is important to leverage on the technologies of IPv6 to control and synchronise these devices and make efficient use for saving energy reducing global warming. ERNET develops and tests different applications for it.

**IPv6 - The future of networking.....
..for the welfare of mankind**

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