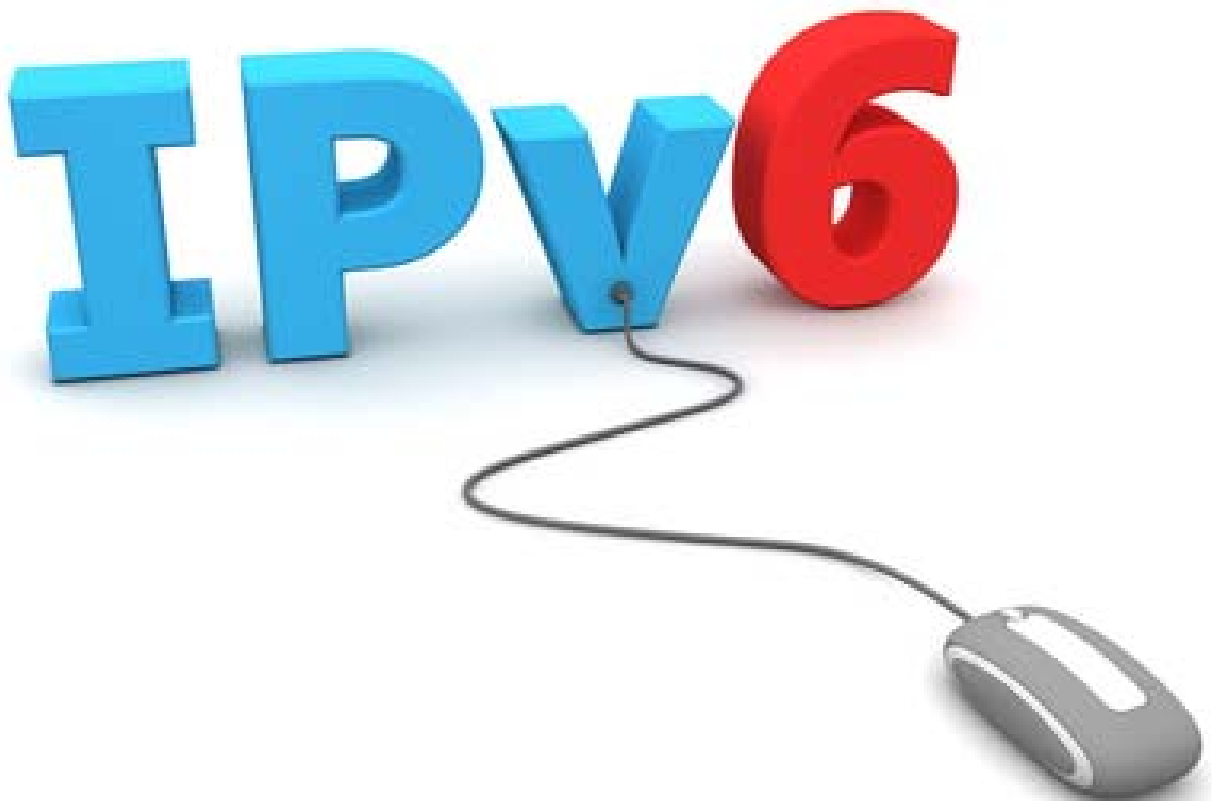




Institute for Development and Research in Banking Technology  
(Established by Reserve Bank of India)

# Migrating to IPv6

November 21 – 23, 2016



**W**E are glad to announce a Programme on Migrating to Ipv6, November 21 – 23, 2016. The programme details are given below. We appreciate your proactive initiatives in making your technologies more secure and reliable.

### Introduction:

Each device connected to Internet is bind with an IP address given by Internet Authority so that the device can be uniquely identified in the Internet. In recent past, a significant growth in the number of devices connected to Internet has been noticed. As a result, Internet Society has lately experienced the dearth of the number of IP addresses that belong to current version (v4) of the Internet Protocol (Ipv4). This has not only restricted the new businesses to excel, but also, impose a serious security concern of Internet. In particular, an IP address is being shared not only inside an organization, but also across organization possibly with the help of service providers. As a solution, Internet Authority has developed a new version (v6) of Internet Protocols (IPv6), which holds the promise of providing a much greater and bigger Internet in near future, and ensuring greater security for the devices connected to Internet.

A recent study has revealed that half of the world population is yet to get connected to Internet with their devices (possibly more than one device per user). Therefore, it is of immense importance that present Internet (i.e., IPv4) should upgrade, scale and be secure while connecting the forthcoming devices by providing ample number of IP addresses, which can be achieved by employing the new version of Internet Protocol (i.e., IPv6). A fundamental challenge in adopting the new version is that it is not readily compatible with the older version. The aim of this program is to unfold fundamental issues in IPv4 addressing system, and its inability to fulfil the Internet requirement. Introduce IPv6 as a remedy to those issues and its ability to cope up with the ever growing demand of Internet. This program will explore the design principle of IPv6 and its capabilities to mitigate the network layer related issues, other than addressing, such as security and automatic address assignment, routing to name a few. This program has been designed carefully to have a number of hands on so that it can help the participants, be beginner or relatively experienced, to readily build network infrastructure with IPv6 addressing system..

### Objective:

- ★ Familiarize with shortcomings of Ipv4
- ★ Introduce IPv6 as a remedy of IPv4 issues
- ★ Teach Addressing mechanism in Ipv6
- ★ Configure router with IPv6 address
- ★ Create strategies to migrate to Ipv6

- ★ Explore the effects on associated protocols
- ★ Guide participants to test their device for Ipv6
- ★ Create network infrastructure with IPv6 addressing

### Contents:

- ★ Network layer and IP addressing basics
- ★ IPv4 packet inspection, IPv4 limitations
- ★ IPv6 addressing scheme, Subnetting, superneting and masking with Ipv6
- ★ Authority of IPv6 , IPv6 Features , IPv6 packet inspection,
- ★ Migration techniques in theory and practice,
- ★ IPv6 enabled devices, Inspect your device address,
- ★ Effect on other layers, and existing devices
- ★ Associated protocols, DHCPv6, ICMPv6 and DNS,
- ★ Hands on Testing for IPv6 packet transfer.

### Profile of Participants:

Participants are required to have basic knowledge on computer networking and associated devices, and inclined to build/migrate networks incorporating IPv6 addressing scheme.

### Faculty:

Faculty of IDRBT, Guest Speakers from the Industry & Practitioners.

### Fee & Nomination:

The fee for the programme is Rs. 21,000/- + Service Tax 15% = Rs. 24,150/- per participant. It includes boarding, lodging, training, course material, kit, and other infrastructure overheads. The fees can be remitted through NEFT (details furnished here under):

### IDRBT Bank Account Details for NEFT transfer:

**Account Name :** IDRBT  
**Bank :** Axis Bank Limited  
**Branch :** Mehdipatnam Ring Road Branch, Hyderabad  
**Account No. :** 426010100018823  
**MICR Code :** 500211012  
**IFSC Code :** UTIB0000426

Nominations, should be sent latest by **NOVEMBER 07, 2016.**

Please provide the following information for the nominations from your Bank:

- 1) Name of the Official :
- 2) Bank :
- 3) Designation :
- 4) Official Postal Address :
- 5) Mobile /Phone No. :

6) Email address :

We request you to nominate suitable officials for the programme. Please do send us a brief CV/Profile of the official/s nominated (not exceeding one page per person) so that we can fine tune the programme structure, content and delivery.

Please depute suitable officials only from your bank /

organization for this programme.

Please inform the nominees of the landmark to locate IDRBT, i.e., Behind NMDC, Masab Tank, Hyderabad.

**Programme Coordinator :**

**Dr. V. Radha** , Faculty, IDRBT

Email : [program@idrbt.ac.in](mailto:program@idrbt.ac.in)

## FEE DISCOUNTS FOR REGIONAL RURAL BANKS & COOPERATIVE BANKS

No. of Participants	Residential			Non-Residential		
	Fees	Service Tax 15%	Total Fees	Fees	Service Tax 15%	Total Fees
1	Rs. 15,000/-	Rs. 2,250/-	Rs. 17,250/-	Rs. 12,000/-	Rs. 1,800/-	Rs. 13,800/-

**\*This is the discounted fees to be paid uniformly for each participant**

## FEE FOR OTHER BANKS

No. of Participants	Residential			Non-Residential		
	Fees	Service Tax 15%	Total Fees	Fees	Service Tax 15%	Total Fees
1	Rs. 21,000/-	Rs. 3,150/-	Rs. 24,150/-	Rs. 18,000/-	Rs. 2,700/-	Rs. 20,700/-

**The fees to be paid uniformly for each participant**

## FEE FOR FOREIGN COUNTRIES

Sl. No.	Classification of Countries	Fees per participant (Residential only) US \$	Service Tax (15%) US \$	Total Fees (US \$)
1	SAARC Countries	600 \$	90\$	690\$
2	Other Countries	900 \$	135\$	1035\$



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