

**4-1/2011-NT**

Government of India  
Ministry of Communications & IT  
Department of Telecommunications  
Networks and Technologies Cell

**Dated 18th July, 2011**

**Minutes of Meeting**

**Subject: Minutes of the meeting with the Service Providers and Content Providers for IPv6 Policy Implementation**

The meeting with Telecom Service Providers and Content Providers was held on 14<sup>th</sup> July, 2011 at 11.00 hrs at 13<sup>th</sup> Floor, Conference Hall, Sanchar Bhawan for IPv6 Policy implementation under the chairmanship of Advisor (T), DoT. It was attended by the major service providers & Content providers. Shri R.M. Agarwal, DDG (NT), DoT welcomed all the distinguished participants.

2. Shri J. Gopal, Advisor (T) said that this meeting is to review the progress of the IPv6 implementation across the major service providers and content providers and hoped that they will be ready ahead of December 2011, the target fixed by the Government. He further asked all the service providers to provide the required information to TCL to find out the gaps in the IPv6 network coverage across the country. BSNL and MTNL committed that the information required by TCL will be provided in next the 10 days. It was also informed that all NIXI nodes have been made IPv6 complaint. NIC is also in process of making government websites IPv6 ready. He expressed that today's discussion will bring out some more points for deliberation and would come closer to the IPv6 migration.

3. Mr. Anup Pandey from CISCO gave a presentation on the technical questionnaire prepared by them to have at a glance details of the IPv6 preparedness by the service providers. It was a detailed technical questionnaire and liked by one and all and it was informed that the same has already been uploaded on the DoT and TEC website for the information of all concerned. During the discussions it was told by Mr. Anup that this is the comprehensive document prepared by them. Service Providers can use this document as first hand ready reckoner document for checking their network's IPv6 readiness status. Shri R.M. Agarwal, then informed that the questionnaire which was discussed and circulated in the previous meetings is not yet submitted by some of the major service Providers. Advisor (T) requested all the major Service Providers to send the information on priority.

4. DDG (NT) gave a presentation on the brief of the status of the networks preparedness of the Major Service Providers. During point-wise discussion it was told that the brief presented here is as per the reports submitted by the Service providers and requested them to confirm the same which are presented here. All agreed to it and confirmed the same. It was decided that the report prepared by NT cell will be sent to all service providers to check and to send updated information to NT cell, DoT. It was agreed by all to share this consolidated information with others including associations. Following important points emerged from the presentation given by DDG (NT).

- I. Google & Yahoo, content providers confirmed that they are ready for IPv6 core and access and will be ready in all respects by Dec 2011 for use.
- II. It was further suggested by DDG (NT) that as Airtel is conducting the awareness workshop for their employees they may include some customers also and others may follow the same and all service providers should arrange such type of workshops for their staff, customers and for mass awareness also. The workshops being conducted by DoT in coordination with BSNL will also be informed to all Service Providers also, so that they can send their representatives from the respective States.
- III. During the discussions on the address allocation policy it was decided that the representative from some of the service providers can come for discussions in the meeting of the address policy being held on 18<sup>th</sup> July 2011 to present their concerns and confirm about the pool they are holding right now, so that same will be incorporated accordingly in the policy.
- IV. During the discussion regarding network equipment readiness MTNL, GM said that except mobile their other networks will be ready for dual stack by December 2011. It was discussed that as far as services to be started are concerned as per policy guidelines by December 2011, other operators will be ready in the MTNL areas and IPv6 services can be started by December 2011 across the country.
- V. It was also raised that Lawful Interception part is also required to be taken up simultaneously. It was decided that in consultation with Security working group and C-DOT a meeting will be held soon to deliberate on this issue. As for NATTING from V6 to V4 and V4 to V4, security guidelines in this regard have to be examined.
- VI. Sh. Ramesh Chandra from Airtel raised that they need guidelines on some of the applications like gaming etc. In this regard DDG (NT) said the matter will be referred to application working group led by Tech Mahindra to suggest some solutions in this regards.

- VII. Some of the OEMs can be asked to be part of this type of meetings in future. Advisor (T) asked that Oracle and SAP can be called for the next meeting.
- VIII. TCL said that as far as enterprise customers are concerned they are almost ready and for Broad-Band they shall be ready as per the targets.
- IX. It was agreed by all in the meeting that all major service providers and content providers will be ready by the targeted date for starting the IPv6 service as per Government Policy.
- X. In the last the outcome of the world IPv6 day was discussed and it was reported by Airtel, TCL, Reliance, Vodafone, etc that the day was celebrated as awareness day and workshops etc were held during the day. However IPv6 traffic was not so significant but there was no complaint about the network, unavailability and breaking of connectivity etc.

The meeting ended with vote of thanks by Director (NT).



(R.M. Agarwal)  
DDG (NT)

Copy for Information please:

1. Secretary (T)
2. Member (T)
3. Advisor (T)
4. CMD, BSNL
5. CMD, MTNL

Copy for information and necessary action to:

1. All Associations for circulating among their members for implementation of above decisions.
2. All lead organizations of India IPV6 Task Force
3. All Service Providers/ Participants.