

**F. No. 2-5/2011-NT**

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

**Dated: 09<sup>th</sup> March, 2012**

**Sub: Minutes of 3rd Oversight Committee Meeting for IPv6 Policy Implementation held on 23rd Feb, 2012.**

Third meeting of the Oversight Committee under India IPV6 task force was held on 23<sup>rd</sup> February, 2012 in Sanchar Bhawan under the Chairmanship of Member (T), DoT. It was attended by the Oversight Committee members and the Leads of all working groups.

Shri R.M. Agarwal, DDG (NT), DoT welcomed all distinguished participants. He delivered the welcome address and started the proceedings with the brief introduction IPv6 activity. He said that Service providers as well as Government Organizations are being pursued for taking necessary actions. Various steps were taken to gear up all stakeholders in this regard and the progress from 1<sup>st</sup> Oversight meeting to till date is as follows:

	1 <sup>st</sup> Oversight on 28.04. 2011	2 <sup>nd</sup> Oversight 04.10. 2011	3 <sup>rd</sup> Oversight 23.02. 2012
Central Nodal Officers Received	60/90	70/90	74/90
States/UTs Nodal Officers Received	28/35	31/35	32/35
IPv6 implementation Activity Sheet Received (Central)	3/90	21/90	28/90
IPv6 implementation Activity Sheet Received (States/UTs)	2/35	8/35	16/35
IPv6 implementation Activity Sheet Received (Major Service Providers)	8/23	23/23	23/23
IPv6 Awareness Workshop for State & UTs	1/26	8/26	15/26

He also informed that DOT is issuing IPv6 newsletters. Seven meetings has been held with central Govt. nodal officers. Workshops are being held with the help of BSNL at States and in this process fourteen more such workshops are to be hold in coming days. He further said that all the working groups of IPv6 task force needs to work together to supplement need of one another and give required momentum to service providers and Government organizations in achieving their targets.

1. Adviser (T) in his address said that the activity sheet should also be prepared by NIC for upgrading of all Government Websites on IPv6 and it should be of two parts: one part should have details of activities that the department/organization has to do at itself and the other part should have details of activity which pertains to other department/organization. Addressing the role of NIC, he said that NIC is nodal agency for the Government for upgrading websites. So, NIC should come forward with above activity sheets, and in turn the same would be sent to all the department by NIC and DoT. Also NIC is custodian of IP addresses ver-4 as well as ver-6 of all the government websites. The NIC should take lead and ask all the State and Central government departments for their need of address space. For some of the states, BSNL is providing V6 address space.

2. Sh. Madhava Reddey, Sr.Tech. Dir., NIC, said that the aforesaid activity sheet would be ready by 15.03.2012 and by next week thereof the same would be sent to all department/organization. He also said that NIC is trying to map IPv4 address to IPv6 address as per need and are ready to upgrade. initially DIT, NIC, DOT websites would be taken up, later on websites of other ministry along with 'data-centers' will be taken up.
3. Shri R.M. Agarwal DDG(NT) proceeded with the review of the actionable points of the Oversight committee meeting and discussed one by one as following:
  - i) DOT website is being updated on regular basis for all IPv6 related activities and a link of the same has been given in all Major Service providers' websites and other stakeholders.
  - ii) Government organizations are responding in slow pace and asking more time to start using the services. In the presentation, progress in the regard was depicted.
  - iii) An expert group to be formed for the purpose to address various technical problems of arising in IPv6 implementation. It is a resource pool with whom a stakeholder can interact as per the technical requirements. Thirteen members expert group has been formed.
  - iv) TEC Test Bed: Test bed facility for testing equipments claiming to be IPv6 Compliant & IPv6 certification agency: TEC IPv6 test bed would be ready by March, 2012. At least, TEC should start certification by 1<sup>st</sup> March, 2012. DDG (TEC) informed that they will be ready by March, 2012.
  - v) TEC is in process of making standards for IPv6 compliant handsets. However, this may not be mandatory as of now.
  - vi) For up gradation from IPv4 to IPv6, the ISPAI raised that equipment vendors are charging abnormal rates, TEC held various meetings in this regard with manufacturing vendors, Meeting with leading vendors were also held in DoT to discuss their IPv6 plans and during that meeting vendors agreed to discuss this issue in details with TEC. But the vendors have not come out with specific cost but the cost depends on case by case basis. Hence, a blanket direction is not feasible and after full deliberations with all the members present in the meeting including ISPAI and after TEC's presentation, Member (T) directed that this point may be closed.
  - vii) As on today, eleven consultants have been approved by DoT. Draft agreement form is under legal vetting and soon the letter will be sent to all Government Organization.
  - viii) IPv6 based pilot projects are needed as to a proof of concept and to demonstrate the benefit. DIT is the lead organization for implementing pilot projects. DIT has informed that Himachal Pradesh Project is almost ready to start for installation and same of Karnataka, Maharashtra and Manipur are at advance stage.

Adviser (T) in this regard said that MTNL may come forward with some pilot projects ideas such as 'Traffic Management System', 'Smart Grid Projects', 'TeleMedicine' etc. and adopt some of such projects in consultation with State Governments. The CMD, MTNL agreed to the same.

- ix) As on date there are 15 and more Indian websites on IPv6. He urged upon NIC that there should be more and more websites of departments of Govt. of India on IPv6. All Government websites to be IPv6 compliant as TRAI has also recommended that by 2012 all Government Websites are to be made available on IPv6. NIC informed that it is doing necessary work.
- x) IPv6 implementation by Major Service Provider: Most of the Service Providers have complied that they are ready to offer IPv6 services as per the targets, but for uptake of services following issues are there:
- Lawful Interception & Monitoring System(LIMS),
  - Application & Contents on IPv6
  - End user devices.

C-DOT informed that LIMS system will be ready for testing. However, required hardware are to be procured by the service provider and stakeholders.

DDG(DS) said that as far as monitoring is concerned ISP's should proceed for roll out plan and not wait for LIMS, the ISP's should buy the hardware as and when needed and recommended by the C-DOT and other parts would be taken care by C-DOT and there should not be any hitch in this regard as security wing and other related departments are doing needful.

- xi) Content Providers and Application Developers not adequately ready. One workshop with Leading Applications and Contents Providers was held on 13<sup>th</sup> January, 2012. Further, more such workshops would need to be held. Focussed workshops were also held with leading equipment vendors on 10<sup>th</sup> January, 2012 & 10/13<sup>th</sup> February, 2012. Focussed workshops of these vendors are planned in next three months time.
- xii) To focus on PR ship for wide publicity, updating national and international community.
- India IPv6 newsletter – four issues have been released and forwarded to all concerned and also uploaded on DoT & TEC websites and in turn being accessed by all Major service providers and stakeholders.
  - IPv6 presentation at various forums.
- However more efforts need to be taken like press conference etc.
- xiii) The economic impact/ benefits of IPv6 based applications in the country, need to publish in the newspapers for information to all, group/lead group may take up this responsibility.

Important Future Plans were also discussed in length in the meeting:

- Substantial transition to IPv6 by 2020.
  - Formulation of New Internet Protocol V6 (IPv6) Deployment Roadmap Version-2 in 2012
- Setting up of IPv6 innovation centre,
  - concept paper & Approval of India IPv6 Innovation Center proposed in 2012
- Global IPv6 Summit in India.
- To Pursue Content, Application and End User Equipment Providers.
- IPv6 Ready Logo Certification for TEC Test Bed.
- IPv6 implementation workshops for states and central organization.
- Coordination with concerned international bodies IETF, ICANN, IANA, APNIC etc.

The meeting ended with vote of thanks by Shri N Ram, Director (NT), DoT.

(S K Madhukar)  
ADG(NT)

Copy for Information to:

1. Sr. PPS to Secretary (T)
2. Sr. PPS to Member (T)
3. Sr. PPS to Member (F)
4. Sr. PPS to Administrator (USOF)
5. Sr. PPS to Advisor (T)
6. All participants & members of Oversight Committee
7. All members of Steering Committee.
8. All Lead Organizations.

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