

2-4/2010-NT

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

Dated: 20th January, 2012

Minutes of Meeting

Sub: 4th Steering Committee Meeting of IPv6 Task Force.

4th meeting of the Steering Committee under the India IPV6 task force was held on 11th January, 2012 in Sanchar Bhawan under the Chairmanship of Advisor (T), DoT. It was attended by the Steering Committee members and the Leads of working groups. Shri R.M.Agarwal, DDG (NT), DoT welcomed all the members and chairman.

2. Sh. J K Roy, Advisor (T) mentioned that as per the targets for the implementation of IPv6 in the country by the major service providers, it is good that most of them are ready to offer IPv6 services from now onwards and in this regard considerable progress has been made by all during the last one year including Government organizations and now it is the time to concentrate on the equipment vendors, Applications and Content providers to provide the IPv6 compliant products and content at the earliest to have the true picture of the uptake of the IPv6 traffic & services. He further said that as this is very vast and complex issue and it needs lot of efforts to be done by all stakeholders.

3. Sh. N Ram Director (NT) gave presentation about the activity & progress made so far by Major service providers and Government Organizations for implementing the IPv6 as per the targets. He said that major service providers as assured have now sending their written compliance that they are ready to offer IPv6 services and till date Reliance and TTSL has sent this to NT Cell and requested other service providers to send the compliance. It was also said that 11 consultants have been approved by the competent authority for providing consultancy services to the Government Organization and very soon list will be sent to all concerned. He also said that as directed in the 2nd Oversight Committee meeting Expert Group has also been formed and list was presented in the meeting. During the discussions Advisor (T) advised to include more **experts in the group and it was agreed that Prof. Arun B Samaddar, Director, NIT Sikkim and Sh Hemant Dattatrey, VP, IPv6 Forum India may also be included in the expert group.**

3. Sh. R M Agarwal started the proceedings with review of the actionable points of the minutes of the previous steering committee:

i). **Non presence of many lead organizations viz. Sify in the important meetings.**

Lead organizations of all working groups are again requested to attend important meetings today's meeting there was representations from many leads but still no member from Sify was present. Advisor (T) said that once again all other members may try to convince them to attend future meetings.

ii). **BSNL to hold 3-4 workshops per month to cover all States/ UTs by December, 2011-** 13 out of 26 awareness workshops could be conducted till date.

Advisor (T) asked GM (Trg.) BSNL to complete the targeted workshops by March, 2012 in close coordination with its circle units & State Governments. GM (Trng.) BSL CO informed that they will be able to conduct total 23 workshops by March 2012 and remaining 3-4 like MH, RJ, HP & AP may be conducted at DoT level or may be coordinated so that these also can be conducted. He further shared the plan of forthcoming workshops.

iii). **BSNL and other service providers except Airtel and TCL to share their IPv6 network information with TCL immediately to enable them to prepare a Report—**

Mr. Naveen Dhar from TCL discussed in this regards and said that India6 network is ready in the country with the IPv6 networks of BSNL, Airtel, TATA, Reliance, Vodafone and other Service Providers networks which has already been informed before. This agenda point may be dropped for future meeting.

iv). **Articles for newsletter by CISCO and all other leads to be sent to NT Cell for August, 2011 issue of IPv6 Newsletter—**

DDG (NT) said that articles were received from some of the leads, but response was not so encouraging and further requested to contribute in the regular basis for the coming issues. **Arun B Samaddar, Director, NIT Sikkim and Sh Hemant Dattatrey, VP, IPv6 Forum India** said that for the next issue they will send some of the articles. Advisor (T) said that all these newsletters and other IPv6 information are available on DoT and TEC websites so link may be provided by all other concerned on their websites, so wide publicity will be there.

v). **CISCO & others to hold international workshop for all stakeholders including Central, States/UTs nodal officers-**

The response from CISCO and others is still awaited in this regards. **Sh Hemant Dattatrey, VP, IPv6 Forum India**, was asked to detail about the plan as in the previous Oversight Committee meeting he also committed to be part of this event. He said that they are proposing the March, 02 or 03 the dates for this event as APNIC submit will close on these days and we may have lot of international speaker and delegate. Advisor (T) said that in this regards DDG (NT) may coordinate with IPv6 forum.

4. Progress of the various working groups was reviewed:

i). **Standards & Specifications (WG-3):**

DDG (NGN), TEC informed that IPv6 standards has already been released by TEC in the month of March, 2011 and test bed installation is in progress and will be ready by February, 2012. It was also discussed that IPv6 Standards available with TEC may be procured by the all concerned if required.

iii). **Pilot Project Working Group (WG-6) :**

Mrs. Tulika Pandey, Addl. Director DIT informed that they are in discussion with 9 states for various types of Pilot Projects and identifying the areas for that. She said that in 4 States they have identified the PPs and out of that in HP they are in advance stage and project about Cloud (IPv6 Cluster Services) has been finalized and awaiting the final approval of the Project after vetting by the leads. She further said that access charges issue needs to be discussed and

settled either with DoT or BSNL. DDG (T) said that reply on the USOF query is still awaited from DIT. Advisor (T) said that case study of the HP project may be shared in the forthcoming IPv6 Newsletter.

iv). Application Support (WG- 7):

Mr. Avinash Joshi from Tech Mahindra said that they are going to conduct a workshop at DoT on 13th January in coordination with NT cell DoT and all Applications and Content Providers have been invited for this to arrive at the stage that what is required to be done for the existing applications on IPv4 and development of new applications of IPv6.

v). Experimental IPv6 Networks (WG-5) & Knowledge Resource Development (WG-8):

DDG (NT) informed that most of the time these groups are not coming for the meeting and till date no progress is reported by them as per the working group task assigned to them. Advisor (T) said that Director MNIT, Sikkim may be included I this WG and he may help in this regard to take up this Knowledge resource working groups task.

vi). Action Plan & IPv6 Network implementation (WG-2) & IPv6 Implementation in the Government Network (WG-9):

Mr. N Ram director (NT) gave the presentation on the progress of both the working group and said that most of the major service providers have already assured to be ready by the given timelines with some riders, like MTNL informed that they will require more time to be ready for mobile network and readiness of LIMS, end user devices, contents & applications and actual traffic will depend on the IPv6 enabled websites, contents & end users. Some of the Major service providers has informed in writing that they are ready to offer IPv6 services and remaining has also assured to send this compliance.

He further informed that Government organizations progress is not encouraging in spite of best efforts by DoT and they need more time to start using the IPv6 services.

Some of the service providers informed that mobile platform is not yet ready fully due to vendors issue. Some of the vendors said that they will be able to provide solutions by Q3 2012 but Major Service providers are trying to get proponed it to Q2 or Q1 2012. Mr Hemant Dattatreya from IPv6 forum informed that LTE 4G is about to start in India and as per 3GPP/ITU and other it must be only on IPv6.

5. Discussions on the agenda points which were emerged out :-

- i. An expert group to be formed from the principal vendors and other concerned stakeholders with whom the core committee members can interact as per the technical requirements**

DDG (NT) informed the group has been formed and there are 10 members in it. Advisor (T) said that members from MNIT and IPv6 forum to be included in this group.

- ii. **IPv6 forum, India to host the Global IPv6 summit in India with the support of DoT-**
Mr. Hemant Dattatreya will discuss this with DDG (NT) and finalized future course of action in this regard..
- iii. **The economic impact/ benefits of IPv6 based applications in the country, need to be published in the newspapers for information to all and a group/lead group may take up this responsibility**
DDG (NT) said that as per this BSNL, Tech Mahindra and TEC will develop some of the articles on IPv6 applications etc. Advisor (T) said that Service Providers can take up this matter with their respective marketing cell and propose to release some of the articles in Newspapers etc. Mr Mathur from CISCO committed to send some of the case studies in consultation with Mr.Anup Pandey from CISCO to NT Cell.
- iv. **CMAI & others to hold focused workshops with different groups:**
DDG (NT) informed that NT cell has organized Vendors meet on 10th January, 2012 and it was concluded that most of the vendors are either having fully V6 compliant equipment or will be ready shortly, which is very positive picture.
- v. **Applications and content providers need to be pursued by all to be IPv6 ready**
Tech Mahindra is working on it and will hold the focused workshop for the application & content providers, first workshop is on 13th January in DoT.
- vi. **Top websites to be made IPv6 ready.**
DDG (NT) said that as NIC is working for making Government website IPv6 ready, it is also need to pursue with top websites like IRCTC, ICICI etc to make them IPv6 ready.
- vii. **C-DOT to make LIMS ready for monitoring of IPv6 traffic by December, 2011**
Response awaited from C DOT and security cell, DoT.
- viii. **Test bed expected to be ready by January, 2012 by TEC and accordingly certification facility will be made available**
DDG (NGN) said that work is in progress and same will be ready by February, 2012.
- ix. **NKN, NIC, ERNET and ISPAI to work for promotion of IPv6 in educational institutions**
Advisor (T) said that MNIT, Director may take up this issue with other NITs of the country.
- x. **TEC to take action on standards for IPv6 compliant handsets and coordinate with BIS, if required**
DDG (NGN) informed TEC is working on and by March this year TEC will come out with some solution.

- xi. **India IPv6 Roadmap-2 Preparation & Release**-NT Cell DoT and 'I' division TEC will coordinate and prepare India IPv6 deployment roadmap-2.
- xii. **TEC test Bed to be IPv6 Ready Logo certify**—after successful installation and testing the Test Bed TEC shall take necessary action.
- xiii. **TEC in turn may provide IPv6 Ready Logo certificates to other test beds in the Country**- TEC may formulate policy in this regard.
- xiv. **Specialized talk by Eminent Speakers**- NT Cell Dot shall organize this for the benefit of all stakeholders.

Advisor (T) finally said that we had good interactive discussions and hoped that all will take care of their assigned responsibilities and complete their targeted works on time.

At last Sh. N Ram Director (NT) gave vote of thanks to all distinguished members for sparing their valuable time and making the discussions fruitful.

(N. Ram)
Director (NT), DoT
+91 9868811933
dirnt-dot@nic.in

Copy for Information to:

1. Secretary (T), DoT.
2. Member (T), DoT.
3. Advisor (T), DoT.
4. Advisor (F), DoT.
5. Sr. DDG, TEC
6. All members of Oversight Committee.

Copy for information and necessary action to:

1. All members of Steering Committee
2. All Lead organizations
3. All participants
4. Central and State Nodal Officers
5. All members of the working groups.
6. Director (IT), DoT & Director (I), TEC to kindly upload the same on the respective website under IPv6 Activity link.