

2-5/2010-NT

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

Dated: 20th December, 2011

Minutes of Meeting

Sub: IPv6 Standing Committee 3rd Meeting ---- Minutes thereof.

Third meeting of the standing committee was held on 29th September, 2011 in Sanchar Bhawan under the Chairmanship of Advisor (T), DoT. It was attended by the following officers:

1. Sh. J M Suri, DDG (I), TEC,
2. Sh. Ram Narain, DDG (Security), DoT,
3. Sh. R M Agarwal, DDG (NT), DoT,
4. Dr. Govind, Sr. Director & CEO, NIXI, DIT
5. Sh. H M Reddy, Sr. Technical Director, NIC,
6. Sh. R S Mani, Sr. Tech Director, NIC.
7. Sh. B K Nath, Director (I), TEC,
8. Sh. Manish Vimal, Director (IT), DoT,
9. Sh. Aurindam Bhattacharya, Sr. Manager, C-DOT,
10. Sh. Praveen Misra, Addl. Director, ERNET

Shri R.M.Agarwal, DDG (NT), welcomed all the distinguished participants and started the proceedings of the meeting with the review of agenda points of Second meeting and new agenda points as follows:

1. All IPv6 related activities and contents on DoT /TEC websites:

TEC Website is being updated regularly and all related letters/ circulars and other information of IPv6 is available on TEC website and link has been provided on DoT website. Dir (IT), DoT said that workorder has been issued for the DoT website and work is in progress for uploading all the data on DoT website at the earliest. Advisor (T) said that NIC/ERNET/DIT/NIXI websites may also have the IPv6 activity link and can be linked with TEC/DoT website. It was also discussed that IPv6 logo can be devised by IT wing DOT in consultation with NT cell and can be used for the IPv6 link. Director (IT), DoT will do take necessary action in this regard.

2. IPv6 pilot projects: Firm proposals from DIT still awaited:

Dr. Govind from DIT said that DIT is in process of finalizing the Pilot Project in Himachal Pradesh in consultation with the state government on health, proposal for the same has already been received and recommended by the working group and DIT is in process of approving it. It will be implemented with the support of state and IIT, Mandi.

Advisor (T) asked the DIT to expedite the PP in HP, Dr. Govind said that this pilot project will be ready by June 2012 and he is not anticipating any problem in it. DIT proposes to fund this project.

Sh. Praveen Misra, Addl. Director (ERNET) informed that ERNET is in process of setting up of IPv6 test bed as ERNET is already having V6 core network, as ERNET has 11 POPs across the country so testing can be done from anywhere. He further said that test bed will be ready by March, 2012. DDG (NT) said that ERNET test bed can be augmented to the TEC test bed level, so that this test bed can also be used for the v6 testing. He said that ERNET and TEC can coordinate in this regard to set up test bed at the same level.

It was further discussed that DIT can take up different applications pilot projects like Smart building etc as Pilot Project Working group has got Co lead like Tech Mahindra etc which is developing application on v6 also.

Advisor(T) asked DIT to send the note of all the activities taken up by the pilot project lead DIT and the progress thereof for the perusal of Secretary (T) at the earliest.

3. Security wing: Specific case study for the security issues in IPv6:

Sh. Ram Narayan DDG (Security) said that after the start of IPv6 projects some case study can be taken up.

Advisor (T) said that Security study can be done for the HP Pilot Project as being done by DIT. It was discussed that in beginning of the pilot itself the security study can be taken up by the concerned wing. The subgroup formed by the security group can interact from the beginning of the PP itself and basic guidelines can be issued in this regards. So the subgroup can take up this issue and come out with guidelines. Advisor (T) again asked DDG (security) that this issue to be taken up with respect to HP Pilot and in other pilot projects.

4. Up gradation from IPv4 to IPv6: Higher charges by equipment vendors :

DDG (I) informed that two meetings with vendors have been conducted and it was also tried to discuss the issue face to face in the meeting with ISPAI and vendors but no representative from ISPAI could be present in both the. However, as per the direction in the second oversight committee meeting the issue will be taken up accordingly.

5. Short listing of IPv6 Consultants for Government Organizations:

Sh. N Ram, Director (NT) informed that Expression of Interest (EOI) for empanelment of consultants, has already been opened and evaluation for the same is in progress.

6. National IPv6 Address Allocation Policy:

DDG (NT) informed that during the Indian delegation meeting at Brisbane in the last week of July 2011, the matter was discussed with DG, APNIC and as per their suggestion the case has been taken up with APNIC's BUSAN meeting to incorporate the same in APNIC policy. However the matter is still under discussion stage in APNIC Policy group.

7. Discussions on National Internet Registry (NIR):

Dr. Govind from DIT informed that delegation of senior officers of DIT & DOT and a technical team has already visited APNIC and expected that NIR will be operational by March, 2012, for which hardware and software work is in progress.

Advisor (T) said that for the point number 6 & 7 DIT should send a note in this regard and same can be uploaded on the websites also.

8. All Government Websites to be made IPv6 ready:

Sh. Madhav Reddy, Sr. Technical Director, NIC and Sh. R S Mani informed that one sit www.ipv6.nkn.in is ready and for rest of the sites they are working on it.

9. Rural based IPv6 pilot projects: Funding through USO fund:

USOF is having some reservation in this regards, still the reply from DIT is pending in this regards.

10. Lawful Interception & Monitoring System (LIMS) by C DOT:

As per C-DOT they will make arrangements for the same by December 2011, as they committed. Advisor (T) said that this issue can also be taken up by the security wing DoT with C-DOT for timely action on the IPv6 compliant LIMS.

11. IPv6 Compliant guidelines letter issued by DoT to be reiterated again by DIT to all States:

DDG (NT) informed that letter has been written to AS, DIT for same and it has been reiterated by DIT to all concerned. Dr. Govind from DIT said he will reissue the letter again.

New Agenda Points:

- i. **Cost issue (Higher Cost charged by Vendors) needs further deliberation and in depth study by TEC.**
DDG (I) said that the issue will be taken up accordingly as per the direction given in the second Oversight Committee meeting.
- ii. **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) said that as per the Oversight committee meeting e-mail were sent to almost 20 experts for becoming part of the group from various field, consent for the same are being received and accordingly the expert group will be formed with the approval of the competent authority soon.
- 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 help from the some of the service providers is being taken in this regards and efforts are made to publish the same in some of the telecom magazines like telecom live etc. Advisor (T) said that HP project publicity may be explored to be done by DIT.
- iv. **Applications and content providers need to be pursued by all to be IPv6 ready.**
DDG (NT) said that list of the content and vendors are under finalization with the active support of Tech Mahindra and on 23rd December, 2012 the first meeting is proposed to be conducted in DoT, Sanchar Bhawan in this regards.

- v. **Test bed expected to be ready by January, 2012 by TEC and accordingly certification facility will be made available.**

DDG (I), TEC said that work is in progress and expected to be ready by the timelines.

- vi. **CERT (DIT) to take up for empanelment of audit teams for IPv6.**

CERT-In confirmed that they will take-up this issue also accordingly.

- vii. **NKN, NIC, ERNET and ISPAI to work for promotion of IPv6 in educational institutions.**

DDG (NT) said that NIC, NKN and ERNET present in this meeting should take up this issue as in the previous Oversight Committee meeting Secretary (T) himself directed to take up this issue at appropriate level. ERNET etc informed that once the test bed is ready same can be utilized for the promotion of IPv6 in educational institute. It was also directed that IT wing DoT as discussed above should make available the IPv6 logo at the earliest. Mr. Mani, Mr Parveen Mishra, from NIC and ERNET will take this issue for further action at their level from the NKN, NIC and ERNET side respectively.

Meeting ended with vote of thanks by Director (NT).

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

Copy to: for kind information, please.

1. Secretary (T), DoT.
2. Member (T), DoT.
3. Member (F), DoT.
4. Administrator, USOF.
5. Advisor (T), DoT.
6. Director General, NIC.
7. Sr. DDG (TEC)
8. Addl. Secretary (DIT).
9. DDG (C & A), DoT.
10. All the Members of the Standing Committee for necessary action.
11. All the participants of the Standing Committee meeting for necessary action.