

F. No. 2-5/2011-NT

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

Dated: 19th Sept, 2012

Sub: Minutes of 4th Oversight Committee Meeting of IPv6 Task Force for IPv6 Policy Implementation held on 11th Sept, 2012.

4th meeting of the Oversight Committee under India IPv6 task force was held on 11th September, 2012 in 2nd floor committee room, Sanchar Bhawan under the Chairmanship of Secretary (T), DoT. It was attended by the Oversight Committee members and some Leads/ Working Group members.

2. Shri R.M. Agarwal, DDG (NT), DoT welcomed all distinguished participants. Sh. R K Bhatnagar, Advisor (T) apprised the members about the meeting's agenda and deliberated in brief the progress of the IPv6 implementation in the country. He informed the members about the TEC test bed readiness, advise given to C-DOT for GPON and other ICT equipment testing on TEC test bed and pre-DCC handset standards with IPV6 compliance included by TEC. He said that after one year, we may have handsets with IPv6 readiness after release of the handset standards. He further informed about the Centre for Innovation for IPv6 as per the NTP-2012 and said that three meetings of the committee have taken place and possible model and structure have also been discussed.

DDG (NT) discussed through a presentation covering the minutes of the previous meeting and agenda points which need compliance and progress and started with NT cells points:

2.1 Progress regarding IPv6 implementation/migration:

- a. Major service provider are almost ready to offer and handle IPv6 services as per December, 2011 timelines and 6 out of 22 are fully ready and remaining are going to be ready soon in the next one or two quarters.
- b. To pursue with the Content and application providers six meetings have already been conducted at different places in the country and they are working on to make all on IPv6 also.
- c. Equipment vendors and end-user device vendors are also being pursued to be ready on IPv6 and as for as equipment vendors are concerned they are almost ready and will be fully ready by next one year. For end user device vendors standards as TEC is preparing needs to be mandated for.
- d. Government Organisation have also been sensitised and they are also gearing up for start using the IPv6 services.

- e. Main issues highlighted by States are trained technical resources & funding for which they want support from DoT.
- f. Government organisations have still not engaged the consultants for the IPv6 implementation and asking for funds. In this regard, Secretary (T) stated that funding should not be done by DoT for the IPv6 implementation in Government organisations. He further added that the Government organisations should incorporate the provision of funds for IPv6 implementation in their IT projects and if needed, they should revise their existing project estimates for IPv6 implementation in their organization.
- g. NT cell has been focusing on some important ministries/departments to move their content/ websites on IPv6 also at the earliest.
- h. NT cell is holding various meetings (22) time to time and progress is being shared at all the forums.
- i. IPv6 progress of the country is also being shared at international forum etc.

2.2 Test bed Status:

Sr. DDG (TEC) informed that:

- a. TEC Test Bed is ready and validation is almost completed. TEC has also written to all stakeholders and vendors to offer their equipment for IPv6 testing.
- b. C-DOT's GPON and other IP equipments are expected to be got tested in the coming month.
- c. IIT has also offered some of the equipment for testing.
- d. Ready Logo accreditation is also in progress and TEC team in constant touch with the IPv6 world forum and after NDC it will start and expected to get certification soon, probably in the month of October, 12.
- e. A draft handset standard has been circulated to all concerned and after DCC same will be approved and accordingly TEC will enforce for the IPv6 compliant handset in the country, once it gets authorized by the government.
- f. TEC test bed is capable to offer remote testing also and capable to test Handset also, for which DDG (NGN) said he will reconfirm it.
- g. Advisor (T) and Member (T) said that Indian Telegraph Act will have to be amended to incorporate the new standards. Simultaneously, the issue of enforcement of new standards also needs to be looked into and they can be enforced through TERM cells. For this the TERM cells need to be adequately strengthened.

2.3 All Government Websites on Dual Stack:

Sh. H M Reddy, Sr. Tech Director, NIC informed that:

- a. All static websites will be on dual stack by October, 2012 and others including non static etc will be on dual stack by December, 2012.

- b. They are under discussions with all the ministries and state government organisations for non static websites and also security concerns as well as logs are being analyzed for the dual stack website.
- c. No other difficulty is anticipated for making all government websites on dual stack.
- d. The mandatory testing and certification of the websites on IPv6 by STQC was also discussed and it was felt that NIC also needs to go for IPv6 world forum WWW certification programme (which is free of cost)to certify all the government websites so that same can also be reflected to the world that we have certified websites also.

2.4 Setting up of INNIR

- a. Sh. K B Narayanan, Advisor (NIXI) said that MAHA-Online has developed the software for the INNIR and has been tested successfully.
- b. Draft policy has also been formulated and comments are being asked from members of the committee.
- c. Security audit of INNIR is also in progress.
- d. In another one month or so INNIR will be ready to launch.

2.5 IPv6 Pilot Projects Status:

- a. Sr. Director, DeitY informed that various projects have been identified by DeitY in consultation with States and Pilot Project from HP, Gujarat, Karnataka & Pondicherry were to be finalised but due to funding issue these are yet to be formalized.
- b. The issue of consultants funding was also raised.
- c. Secretary (T) desired to know whether these were standalone pilot projects or the add-on with the existing projects. It was clarified that these were standalone projects. He said that the pilot projects should preferably be add-on with the existing IT projects and may not be standalone projects. AS (T) said that due to standalone pilot project, huge funding was being asked for by the States. Secretary (T) said that for funding etc all concerned Government organisations may be asked to make funding provisions in their projects estimates in the coming years and if needed existing projects may be revised accordingly to have IPv6 implementation in the organisations and even for pilot also funding provisions needs to be done at the level of the respective organization as inter-departmental provisioning will not be possible.

2.6 Progress of IPv6 awareness workshops:

- GM (Trg.), BSNL informed that 22 out 26 awareness workshops have already been conducted and three more are planned to be conducted soon.

2.7 LIMS Status for IPv6:

- ED and director C-DOT said that matter has already been discussed in the previous Oversight committee meeting and the point should be closed. ISPs should have their existing LIMS infrastructure ready and others will be taken care by C-DOT as already informed.
- DDG (DS) said that C-DOT is capable to handle the IPv6 LIMS issue and their system is ready to cater both, which was also agreed to by C-DOT officers.

3. New Agenda Points:

3.1 Assessment of two states for IPv6 status:

- DDG (NT) said that as Roadmap v-2 is under preparation and for Government organisations we need to have case study for how to proceed further CISCO has offered that it will conduct study for two states namely Gujarat & Tamilnadu for:
 - a. Detailed IPv6 Network Infra Assessment, Gap analysis and clearly recommended next steps from current state and phased future roadmap for IPv6 readiness on the Network Infrastructure.
 - b. Detailed IPv6 Application Services infrastructure Assessment, Gap Analysis and recommended next steps from current state and phased future roadmap for IPv6 readiness on the Application Services Infrastructure.
 - c. Detailed study of the current IT initiatives which are in progress or about to progress and incremental effort needed to make those initiatives to be IPv6 ready on Network/Application Infra front from Day-1. CISCO will need a correspondence in this regard from DoT to states and this study will be free of cost.

3.2 IPv6 transition in respect of SWAN, SDC and NeGP:

- Sr. Director Deity informed that they are taking necessary action for making all the IP projects of states on IPv6 also and as per directives of Secretary (T), revision of existing project estimates or new project estimates will be worked out.

3.3 IPv6 Deployment Roadmap v-2:

- DDG (NT) presented the draft outlines of the roadmap and informed that these are the timelines for service provider, equipment manufacturers, end user device manufacturers as well as content & application providers and has already been discussed with most of them and will also be discussed further with all stakeholders and after that will be finalised by the committee and needs to be mandated in the roadmap for all concerned. All members were apprised about these timelines and DDG (NT) said that after consultation these will be incorporated in the roadmap as mandatory timelines.

3.4 Centre for Innovation:

- Advisor (T) & DDG (NT) informed that objectives of COI has been discussed and finalised by the committee and model and structure are under discussion. Secretary (T) said that PPP model should also be explored. He further said that we should encourage participation from industry on models and options for COI.

3.5 Certified IPv6 Training courses in India:

- DDG (NT) presented the need for a certified training modules in the country and formation of the committee for finalising the course outlines, eligibility for the institutions to be empanelled and EoI for empanelment. He further said that one Government organization need to oversee the certified training courses and for certification etc and NTIPRIT can be one of them.
- Secretary (T) said that this type of certified training courses are needed in our country and this should be expedited.

3.6 IPv6 Certification for ISPs, websites etc.(Presentation):

- Sh. Anup Pandey from Six matrix (Special Invitee) presented the ISP & WWW certification programme of IPv6 world forum and said that this is being offered free of cost and it is online.
- Secretary (T), Member (T) and other members of the committee said that this can be followed by NIC for certifying all the Government websites on IPv6. This may also be followed by the private websites and ISPs.

Meeting ends with vote of thanks.

Sd/-
(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 Advisor (T)
5. Sr. PPS to Administrator (USOF)
6. PPS to AS (T), DoT.
7. All participants & members of Oversight Committee
8. All members of Steering Committee.
9. All Lead Organizations.
10. All Secretaries GOI.
11. All Chief Secretaries/Administrators States/UTs.