Date: 09th Dec, 2014

Subject: Meeting of the 7th Oversight Committee held on 25.11.2014– Minutes thereof.

In Chair: Secretary (Telecom), Department of Telecommunications.
Participants: A.   Members of Oversight Committee & Invitees.
                B.   Officials of NT Cell, DoT

Meeting Agenda

✓ National IPv6 Deployment Road map Ver-II: IPv6 scenario in the country and IPv6 Adoption Milestones.
  • Service Providers
  • Content & Application Providers
  • End User Device manufacturers
  • Government Organisations.

✓ Working Groups: their mandate and progress

✓ Compendium on IPv6 based solutions/architecture/case studies for different industries verticals

✓ IPv6 Workshops as per RFD 2014-15: Status & Progress

✓ IPv6 transition status of States/UTs in respect of SWAN, SDC and NeGP.

Proceedings

DDG (NT) welcomed the participants and in the opening address said that since release of 'National IPv6 Deployment Roadmap Version-II' there has been considerable progress in transition to IPv6 across the country. He said that the 'Digital India' programme aims to connect all Gram Panchayat by broadband Internet, promote e-governance and transform India into a connected knowledge economy. IPv6 transition is essential to ensure open, scalable and sustainable growth of Internet which is a key element of digital infrastructure.

2. Director (NT-I) outlined the IPv6 scenario in the country through a presentation.

3. Project Director, MPSEDC, Govt. of MP presented the IPv6 transition achievements and way forward across the state. He said that MP state is following a phased approach towards IPv6 transition as per guidelines of DoT. He informed that IPv6 is enabled in MPSEDC and core infrastructure of SWAN. Further, they are in the process of enabling IPv6 in whole MPSWAN infrastructure. Four websites are IPv6 enabled & IPv6 forum certified. He added that the budget and readiness of ISPs are the main challenges in IPv6 transition. DDG (NT) clarified that as per Roadmap v-II, the States need to incorporate the provision of funds for IPv6 transition in their IT projects. He said that as far as existing equipments are concerned they must be replaced as per the product/technology lifecycle as per IPv6 Roadmap v-II.

3.1 DDG (NT) informed that training has been widely accepted as an important element in IPv6 transition plan of any organisation. IPv6 training requirement for Government Organisations is huge and it is necessary so that IPv6 implementation in their respective organisations is smooth and seamless. This issue was emphasised in one of the earlier Oversight Committee Meeting also. A proposal in this regard for training of about 1000 Government (both Central & States/UTs) officers (without training charges) by DoT has already been sent to NTIPRIT. Secretary (T) desired that NTIPRIT should conduct the training.

3.2 The Project Director, MPSEDC informed that an IPv6 based Intelligent Traffic System (ITS) is being planned in MP. He emphasised that IPv6 provides an enabling infrastructure for rolling out Smart City. It was agreed upon that Smart Cities are not possible without IPv6.

- ✓ Presentation by NIC for Content/website readiness in Government sector

- ✓ Presentation by device vendors about IPv6 readiness

- ✓ IPv6 Centre of Innovation as per NTP-2012: Status and Progress

- ✓ IPv6 training for Central Government/States/UT officers by NTIPRIT

- ✓ Certified courses on IPv6 for all stakeholders

- ✓ IPv6 Test bed set: Status & further utilisation of IPv6 Ready Logo Certification

- ✓ Award system for excellence in IPv6 transition & innovative application implementation by Central Government/States/UTs and its PSUs

- ✓ M2M Communications: Status & Progress

- ✓ Any other issue with permission of the Chair

4. TEC informed that IPv6 TEST BED at TEC is one the eight approved labs in the world for IPv6 Ready Logo Certification. The lab is being utilized for both testing of IPv6 conformance & interoperability as well as examination of test results. Apart from IPv6 Ready Logo test setup, TEC is also conducting conformance testing of IPv6 for products which are offered through Interface Requirements testing through the NGN Test Bed. TEC, thus, can offer IPv6 testing facilities for IPv6 certification. Some organizations, which are dealing with M2M gateways, have enquired about IPv6 testing scope of the labs in TEC. TEC will examine the applicability of IPv6 test set up for wireless devices. A reminder is to be sent to IPv6 forum regarding standardization of testing of the handset over wireless media.

5. MTNL presented the IPv6 transition status and informed that their planning for IPv6 implementation started about 5 years ago (2009) and an internal Roadmap was issued to the units. Accordingly for the last 4-5 years tenders for equipment were floated with dual stack condition only and in parallel the suppliers/ OEMs were pursued for IPv6 capabilities in supplied equipments. He informed that their broadband & enterprise networks are fully IPv6 ready. He added that initially about 100 connections on dual stack are envisaged for performance evaluation before full-fledged launch of the IPv6 services. Regarding readiness of mobile network, it was informed that it is likely to be ready by middle of 2015.

6. It was informed that as per information provided by Indian Cellular Association (ICA), all prominent companies like Samsung, Microsoft, Apple, HTC, Lava, Sony, Micromax, Intex, Karbonn etc. support IPv6 on all newly launched devices w.e.f. 01-07-2014 in accordance with the Roadmap v-II.

7. BSNL informed that their enterprise network is also IPv6 ready. Regarding readiness of retail network (mobile & landline), it was informed that it is likely to be ready by June, 2015.

8. Secretary (T) said that measurement, monitoring and enforcement are key to successful IPv6 transition in the country. He desired that possibility of incorporation of IPv6 mandate for service providers in license condition may be explored for compliance, if required.

9. DeitY informed that SWAN in UP, Tamil Nadu and Meghalaya has been transited to dual stack while those in Maharashtra, Goa and MP are in the process. ERNET informed that they have also set up IPv6 test lab for training purpose.

10. DDG (NT) informed that the websites of Government Organisation hosted on NIC server are still not transited to IPv6 (dual stack) despite continuous persuasion from DoT. He added that during previous meeting of the oversight committee, NIC had committed to get it done firstly by DEC, 2012; Thereafter they extended the timelines to Dec, 2013 and now they have intimated Dec, 2014 as their timeline due to firewall related issues. Secretary (T) desired to know why it could not be completed. Since there was no representation from NIC in the meeting Director, DeitY was requested to convey the same to NIC.

11. Despite considerable achievements by the stakeholders of the IPv6 ecosystem, Content and Application Providers' readiness remains an issue. So, a mid-term review of the whole ecosystem is required in the next financial year.

12. During the discussions following actionable points emerged out:

12.1 NTIPRIT to conduct the training (without training charges) for 1000 Government officers in first phase.

12.2 A mid-term review of the IPv6 ecosystem is to be carried out.

12.3 Possibility of incorporation of IPv6 mandate for service providers in license condition to be explored for compliance, if required.

12.4 NIXI to explore mechanism for extracting traffic data for IPv6 on monthly basis.

12.5 TEC to work out testing of the end user devices (example mobile handset etc.) over wireless media in its IPv6 ready logo test lab or otherwise.

12.6 NIC to transit all Government websites on dual stack by Dec, 2014 as committed.

The meeting concluded with thanks giving by DDG (NT).

Sd/-
(S K Madhukar)
ADG (NT)

Copy to:
1. Sr. PPS to the Secretary (T), DoT, for information.
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4. Sr. PPS to AS (T)/Administrator (USOF), DoT, for information.
5. Sr. PPS to Advisor (T)/Advisor (F), DoT, for information.
6. Sr. DDG, TEC, DoT, for information.
7. All participants & members of Oversight Committee
8. All members of Steering Committee and Standing Committee.
9. Director(IT-2), DoT for uploading in the DoT website
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