



File No. 14-01/2010-CIT/IPv6

Dated: 29.06.2011

To

All PGMs/Sr. GMs/GMs, BSNL CO

Subject: Implementation of IPv6 in BSNL

Dir (DS-II), DOT vide letter no. 813-7/2010-CIT/IPv6 dated 15.10.2009 informed that presently IPv4 addresses are being used for all packet switched public communication in India. The unallocated pool of IPv4 is getting exhausted globally due to rapid growth of ICT sector and limited IPv4 address resources. This can have serious implications on the growth of IP based services and applications in future.

Telecom Engineering Centre (TEC) of DOT has been mandated by the Government to act as the nodal agency for facilitating migration from IPv4 to IPv6 in India. A project named "**Implementation of IPv6 & Multicast in BSNL NIB network**" was under taken by BITCOE center of IIT Kanpur. The project was started in Jan 17, 2009. A book titled "IPv6 migration plan for BSNL NIB network" has been prepared with the help of IIT Kanpur (copy available at www.bsnl.co.in/ipv6/ipv6.htm).

Government has decided that from now onwards all stakeholders shall deploy IPv6 Ready Equipment in their network. Instructions have already been issued on this vide letter of even no. dated 08.06.2011. Dual stacking technology will be deployed on the existing IPv4 equipment so that it can also carry IPV6 traffic.

The various areas of operation which may require IPv6 Readiness in BSNL are as under:

S. No.	Area of operation	IPv6 Ready	Remarks
1.	Internal (non public) network		
2.	Network security		
3.	Broadband network		
4.	Content delivery network		
5.	Network Management		
6.	OSS/BSS		
7.	Web services		
8.	DNS services		
9.	Email services		
10.	CPE equipment		
11.	Proprietary applications		
12.	Desktops		
13.	New IPv6 services/Applications		

You may kindly check the IPv6 Readiness of the existing systems under your jurisdiction with respect to above areas of operations. OEMs may be consulted for getting the information, if required. The equipment will broadly mean the

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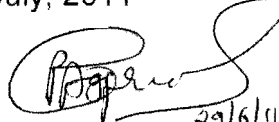
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- a) Hardware (Servers at Data Centre, Router, hosts, computers etc.),
- b) Software (Operating Systems like HP UNIX, Linux, Windows, IBM AIX, SAP, CRM, Security related software etc.),
- c) Other equipment like CPEs etc.

You may kindly refer the documents available on the site (www.bsnl.co.in/ipv6/ipv6.htm) and categorize the equipment into following:

- a) Urgent need for transfer to IPv6 i.e. < one year
- b) One to two year for transfer to IPv6
- c) More than two year for transfer to IPv6

The financial implication for each category may also be evaluated. The above exercise may kindly be completed and report sent to this unit by 15th July, 2011


(Raman Aggarwal)
DGM (CIT)
29/6/11

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