

DS-Lite Multicast Extension Implementation

IETF 83-Paris, March 2012

X.Deng, M. Boucadair, C. Jacquenet

DS-Lite Multicast Extension Implementation

- **Implemented I-Ds**
 - I-D.ietf-softwire-dslite-multicast
 - I-D.ietf-mboned-64-multicast-address-format
 - I-D.qin-softwire-multicast-prefix-option
- **Home Gateway performance experiments results**

Model	Version	Status	Target(s)	Platform	CPU Speed (MHz)	Flash (MB)	RAM (MB)
WRT54G	1.0	0.9	brcm-2.4 brcm47xx	Broadcom 4710	125	4	16

- Able to function as mB4 to deliver videos of up to 1000Kbps (Bit rate)
- **Demo in IETF #82**
 - Operator implemented mB4 interoperates with vendor's mAFTR
 - Multiple IPv4 TV Content Channels delivered from mainland China to Taiwan IETF on site

IPTV channels

[c://bupt-iptv-sp1.buptnet.edu.cn:8888/CCTV4](#) (300k)

[c://bupt-iptv-sp1.buptnet.edu.cn:8888/CCTV9](#) (300k)

[c://bupt-iptv-sp1.buptnet.edu.cn:8888/LYWS](#) (700k)

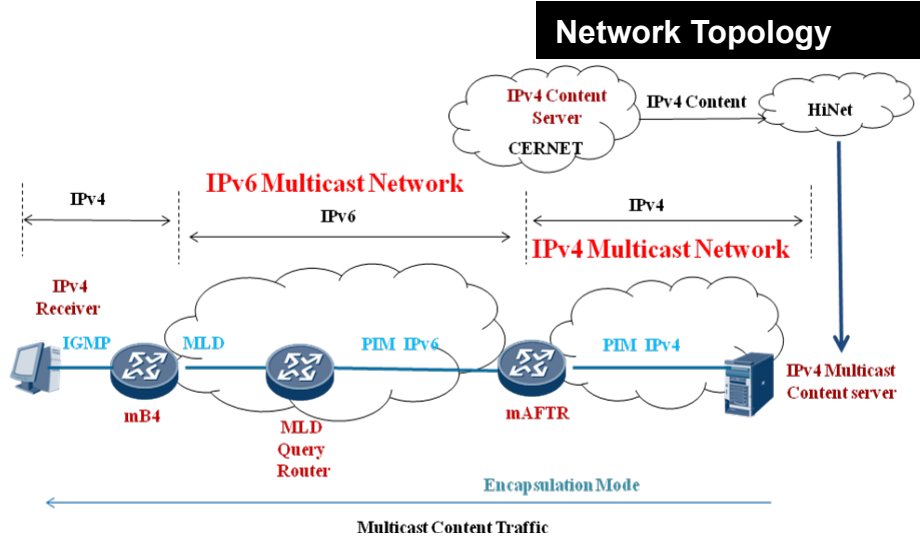
[c://bupt-iptv-sp1.buptnet.edu.cn:8888/CCTV6](#) (1000k)

[c://bupt-iptv-sp2.buptnet.edu.cn:8888/CCTV4](#) (300k)

[c://bupt-iptv-sp2.buptnet.edu.cn:8888/CCTV9](#) (300k)

[c://bupt-iptv-sp2.buptnet.edu.cn:8888/LYWS](#) (700k)

[c://bupt-iptv-sp2.buptnet.edu.cn:8888/CCTV6](#) (1000k)



DS-Lite Multicast Extension Implementations: Updates

- **mB4 updates**
 - Multicast PREFIX64 is configurable via configuration file
 - or via DHCPv6 Option provisioning as specified in I-D.ietf-softwire-multicast-prefix-option
- **Open source mB4 project on Sourceforge**
 - <http://sourceforge.net/projects/mb4/>