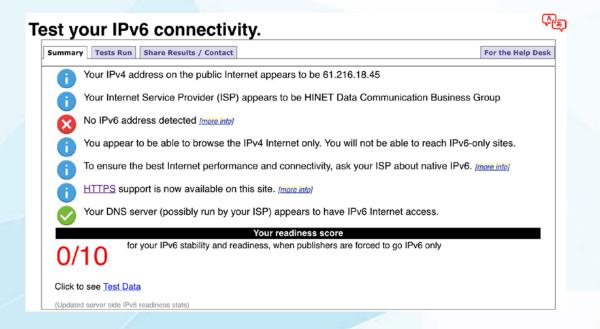


A Decade of IPv6 CE Router Development

Test your network at http://test-ipv6.com



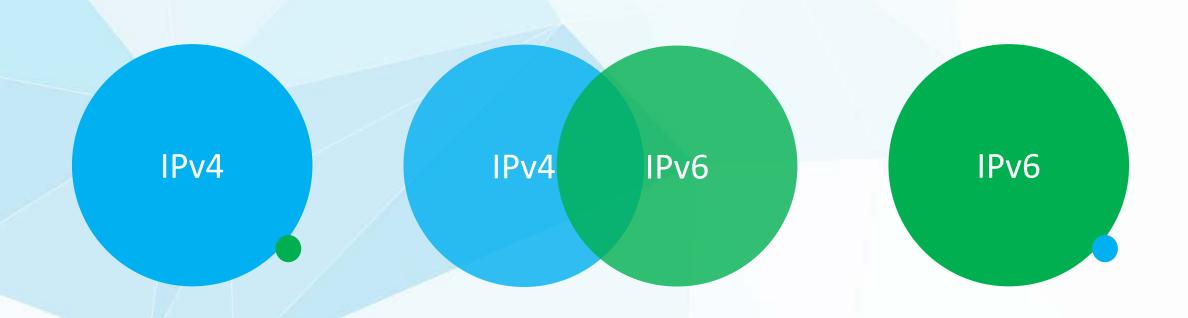
If you don't score 10/10, call your ISP.

If your ISP already enabled IPv6, trash your router.

D-Link CPE IPv6 Development Timeline

- 2003/12 Receive the first IPv6 Ready Logo (Phase-1)
- 2006/5 Receive the first IPv6 Ready Logo (Phase-2)
- 2008/7 Ship the first IPv6 Ready CPE to the retail
- 2010-2011 Pass interops (Cablelabs, UNH-IOL, ...etc.)
- 2011/4 Support RFC 6204 and 6092
- 2011/6 Initiate member of World IPv6 Day
- 2012/6 Initiate member of World IPv6 Launch
- 2012/6 Passed BBF.069 Certification with IPv6 support
- 2013/12 Support RFC 7084 and enable IPv6 by default
- 2014-2017 Monitor the growth of IPv6 transition
- 2017/4 Support major IPv4aaS technologies

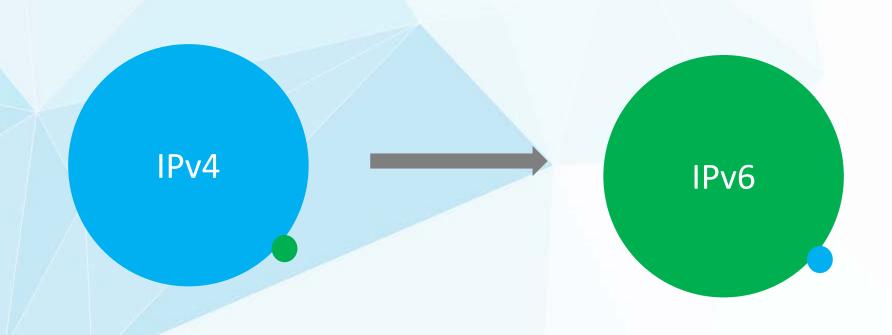
The transition we expected 10 years ago



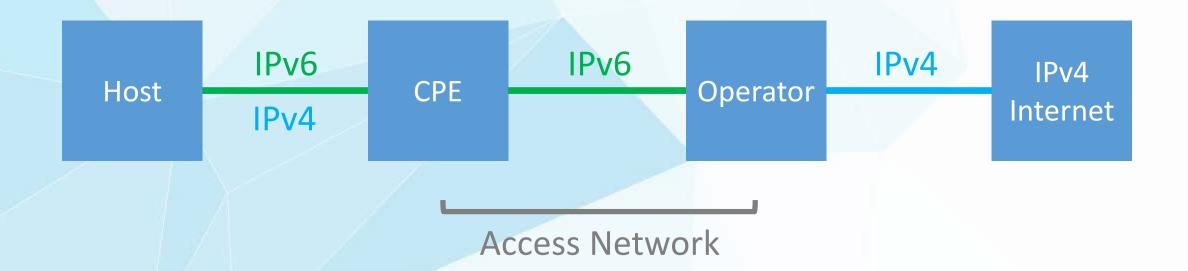
10 years later



Again, IPv6 Transition



IPv4aaS = **IPv4** as a **Service**



Major IPv4aaS Technology

	DS-Lite	lw4o6	464XLAT	MAP-T	MAP-E
Tunnel / Translation	Tunnel	Tunnel	Translation	Translation	Tunnel
Dual Stack LAN	Yes	Yes	Yes	Yes	Yes
Access Network	IPv6	IPv6	IPv6	IPv6	IPv6
NAT44/NAPT	CGN	CPE	CPE	CPE	CPE
46/64 Translation	N/A	N/A	ISP+/or CPE	ISP + CPE	N/A
Translation at ISP with or w/o state	N/A	N/A	with	w/o	w/o
Scalability	Medium	High	High	High	High
Performance	Low	High	High	High	High

Recommended Reading

- 1. Basic Requirements for IPv6 Customer Edge Router https://tools.ietf.org/html/rfc7084
- 2. Requirements for IPv6 Customer Edge Router to Support IPv4 Connectivity as-a-Service

https://datatracker.ietf.org/doc/draft-ietf-v6ops-transition-ipv4aas/

