



STATE OF IPV6-ONLY IN 2018

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WHAT ARE OPERATORS DEPLOYING

https://docs.google.com/spreadsheets/d/1ksOoWOaRdRyjZnjLSikHf4O5L1OUTNOO_7NK9vcVApc/edit?usp=sharing

ISP (name)	Country	Transition Mechanism (NAT64/464xlat, 6rd, DS-Lite, Dual Stack, ...)	Network Type (mobile, DSL, fiber, cable, satellite,...)	AS	PD & Size	DHCP, RADVD, ..
Orange France	FR	Dual-stack	ADSL, VDSL, Fibre			
Orange Polska	PL	464XLAT	Mobile			
Orange Polska	PL	DS-Lite	DSL and fibre	5617		
Orange Slovakia	SK	DS-Lite	DSL	15962		
OTE	GR	Dual-stack / lw4o6	xDSL	6799	/56	DHCPv6 / SLAAC
Proximus	BE	dual stack	DSL			
RCS & RDS	RO	Dual Stack	FTTH	8708		
Reliance Jio	IN	464XLAT	Mobile			
Reliance Jio	IN	MAP-T, Dual-stack	DOCSIS			
Rogers	CA	Dual Stack	Wireline			
Rogers	CA	NAT64/XLAT464	Wireless			
SK Telecom	KR	464XLAT		9644		

SOME STATISTICS

- DS-Lite: 11
- NAT64/464XLAT: 11 (mostly mobile)
- MAP(E/T): 3
- lw4o6: 1
- 6rd: 6

RELUCTANCE TO DEPLOY IPV4AAS

- NAT444, plenty to go by
- IPv4 address transfers
- Fixed does not have its "464XLAT"
- Operators waiting for maturity (chicken & egg)
- no vendor push either
- Operators will deploy what's easiest and safest to deploy (see 464XLAT)
- modern transition mechs are not Gods Gifts
- IETF possibly published too many standards

IETF TO THE RESCUE, MAYBE

- rfc8026 (Unified IPv4-in-IPv6 Softwire CPE)
- draft-ietf-v6ops-transition-ipv4aas
- draft-ietf-softwire-lightweight-4over6-deployment
- draft-ietf-v6ops-nat64-deployment