

# STC IPv6 Readiness Status

## IPv6 Task Force Meeting 16

20<sup>th</sup> November, 2014

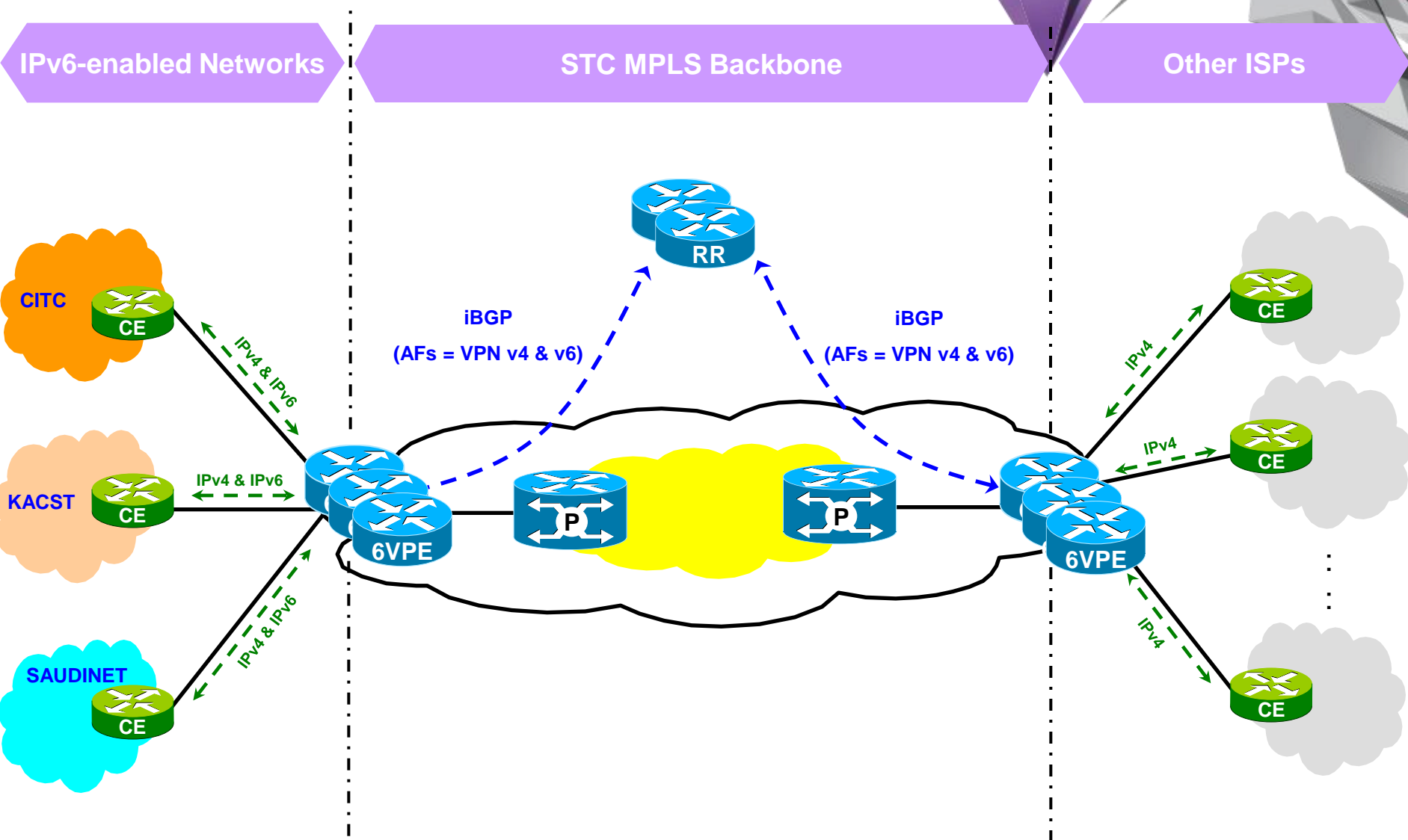
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Network – Research & Development

## Service by service approach

- Services impacted by IPv4 exhaustion to adopt IPv6 first (e.g. HSI for fixed and mobile)
- Customers demand for IPv6 connectivity (e.g. L3-VPNs, DIA, International Peering)
- Wall-gardened services on private IPv4 (e.g. IPTV, VoIP, Mobile VAS) – needs business case

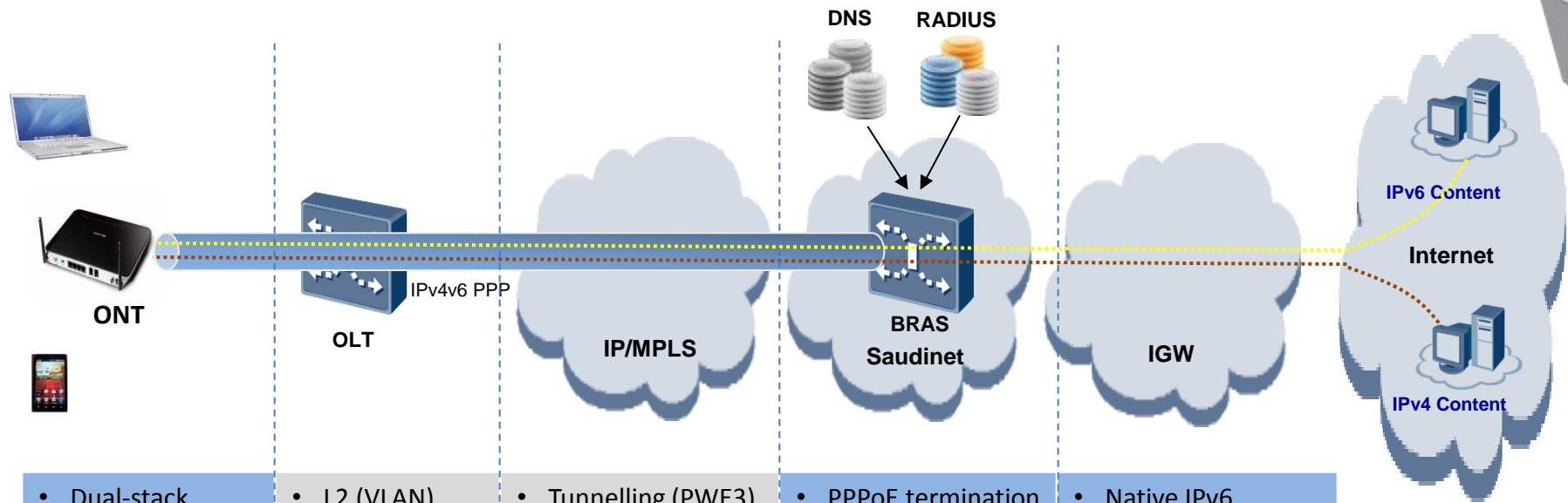
# STC ISP National Peering VPN Service



# Summary Of IPv6 Status

IPv6-Enabled Service	Status	Remarks
International Transit	Launched	<ul style="list-style-type: none"><li>• Some live customers</li></ul>
DIA	Launched	<ul style="list-style-type: none"><li>• Some live customers</li></ul>
ISP National Peering VPNv6	Launched	<ul style="list-style-type: none"><li>• Some live customers</li></ul>
HSI (DSL)	Under stability check	<ul style="list-style-type: none"><li>• Phased rollout planned – Q1/2015</li></ul>
HSI (FTTH)	Pilot	<ul style="list-style-type: none"><li>• On-going</li></ul>
HSI (Mobile)	PoC trials	<ul style="list-style-type: none"><li>• Dual-stack PDN/PDP PoC trial done</li><li>• 464XLAT PoC Trial Planned for Q1/2015</li><li>• MAP-E/T &amp; 4rd under study</li></ul>
Business L3-VPNv6	Under Implementation	<ul style="list-style-type: none"><li>• Planned launch Q1/2015</li></ul>

# STC (Dual-Stack) FTTH



- Dual-stack PPPoE
- WAN P2P = /64 P2P (via SLAAC)
- /56 (via DHCPv6-PD)
- DNS (A, AAAA) via IPv4 transport

- L2 (VLAN)

- Tunnelling (PWE3)

- PPPoE termination
- User Authentication
- IP address assignments
- BW management
- DNS
- Native IPv6 routing

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- WireFilters
- Firewalls
- International peering

Thanks