

IPv6: which are the challenges?

Conferência IPv6
Diagnóstico e Perspectivas em Portugal
2016

Vodafone Portugal



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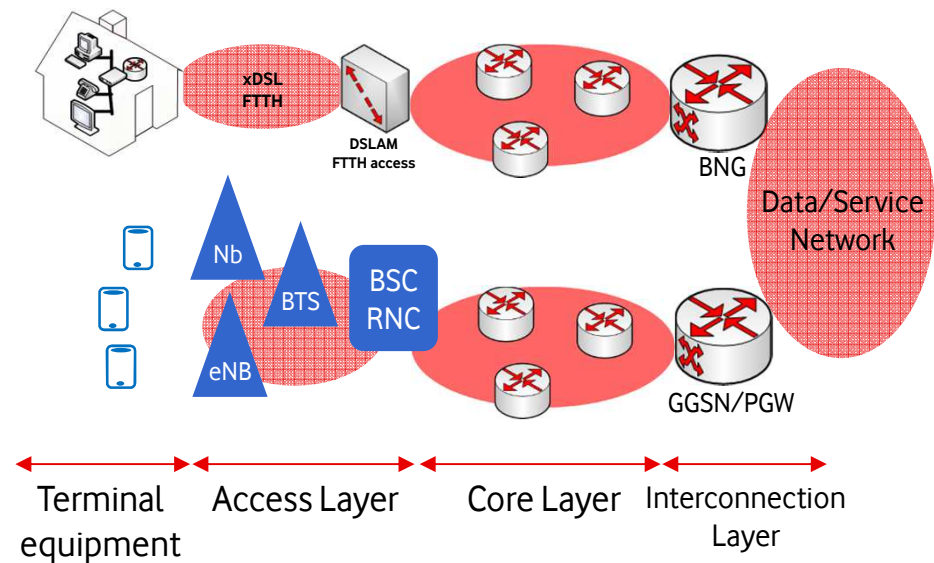
1. Technical challenges
2. Investment and Budget challenges
3. The final challenge (?)



IPv6: Technical challenges

Technical challenges to deploy IPv6 in a Telecommunications Operator network are:

- IPv6 in terminal equipment: new SW/HW
- Core Layer: new SW/HW
- Interconnection layer: new SW/HW



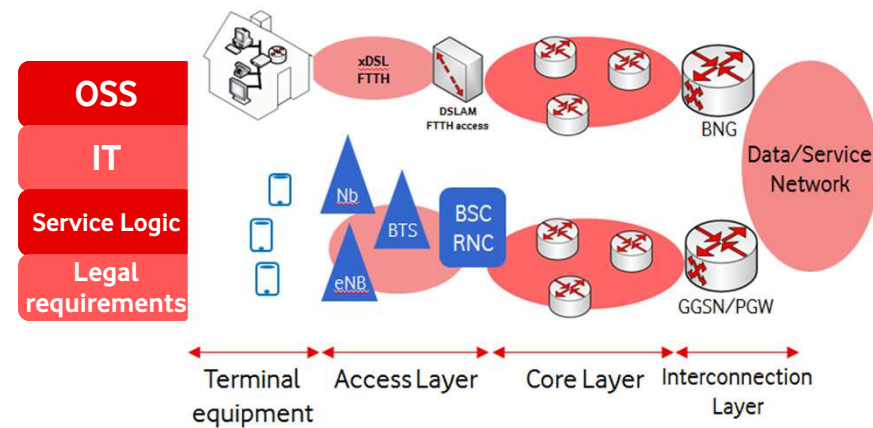
➔ Deploying IPv6 is a big change in current network architecture



IPv6: Technical challenges

Several other domains need to be aware of IPv6 deployment:

- OSS systems
- IT systems
- Service logic
- Legal requirements

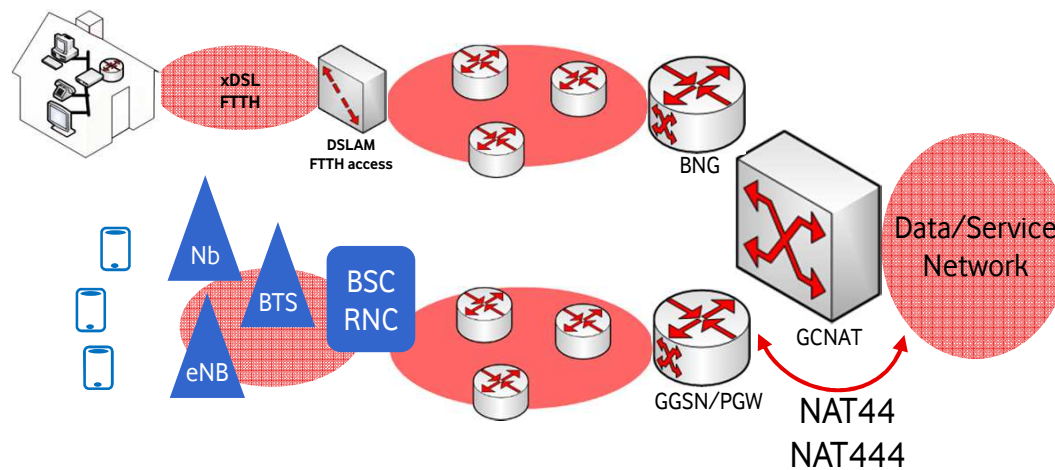


➔ Deploying IPv6 is a big change in current network architecture



IPv6: Investment/Budget challenges

- ➔ If IPv6 deployment is a big change in current network architecture, are Telcos ready to invest?
- ➔ Which other options do Telcos have?



Is NAT a long term solution? It minimizes network investment?



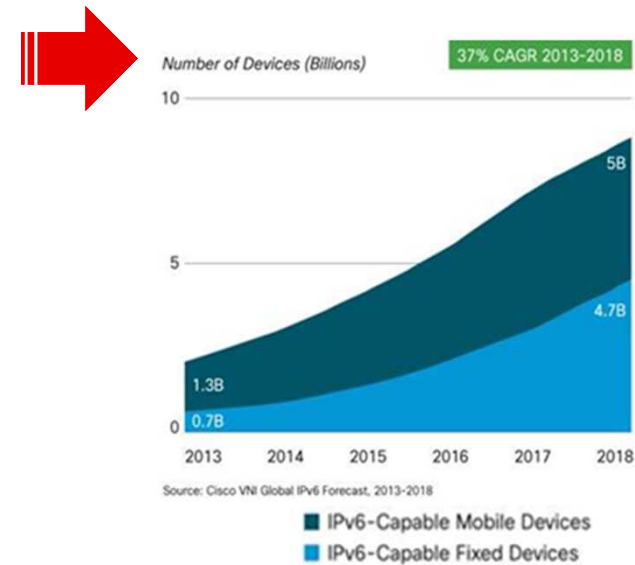
IPv6: Investment/Budget challenges

IPv6 implies a big investment in Telco Networks however:

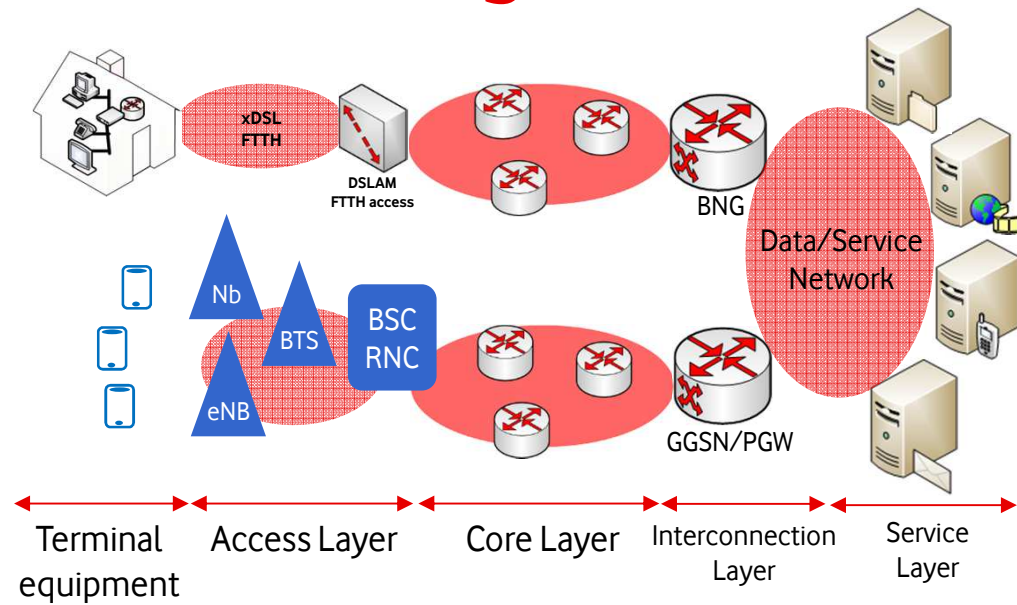
- Is the only technology that support the expected growth of users
- Isn't impacted by the increase of volume or number of users as NAT
- Forecast of IPv6 capable devices shows a big increase



**So, what's missing?
Where's the big challenge?**



IPv6: the final challenge (?)



Without applications and services supporting IPv6 we will never have a full end to end solution!



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