

Orange Belgium

IPv6 deployment

May 2018 / IP Engineering

Christian Dubois
Jerome de Geeter
David Rousseau



Content

1. **Orange BE IPV6 strategy**
2. **Orange BE IPV4 network**
3. **Orange BE IPV6 for Mobile data**
4. **Orange BE IPV6 for Corporate**

Orange BE IPV6 strategy

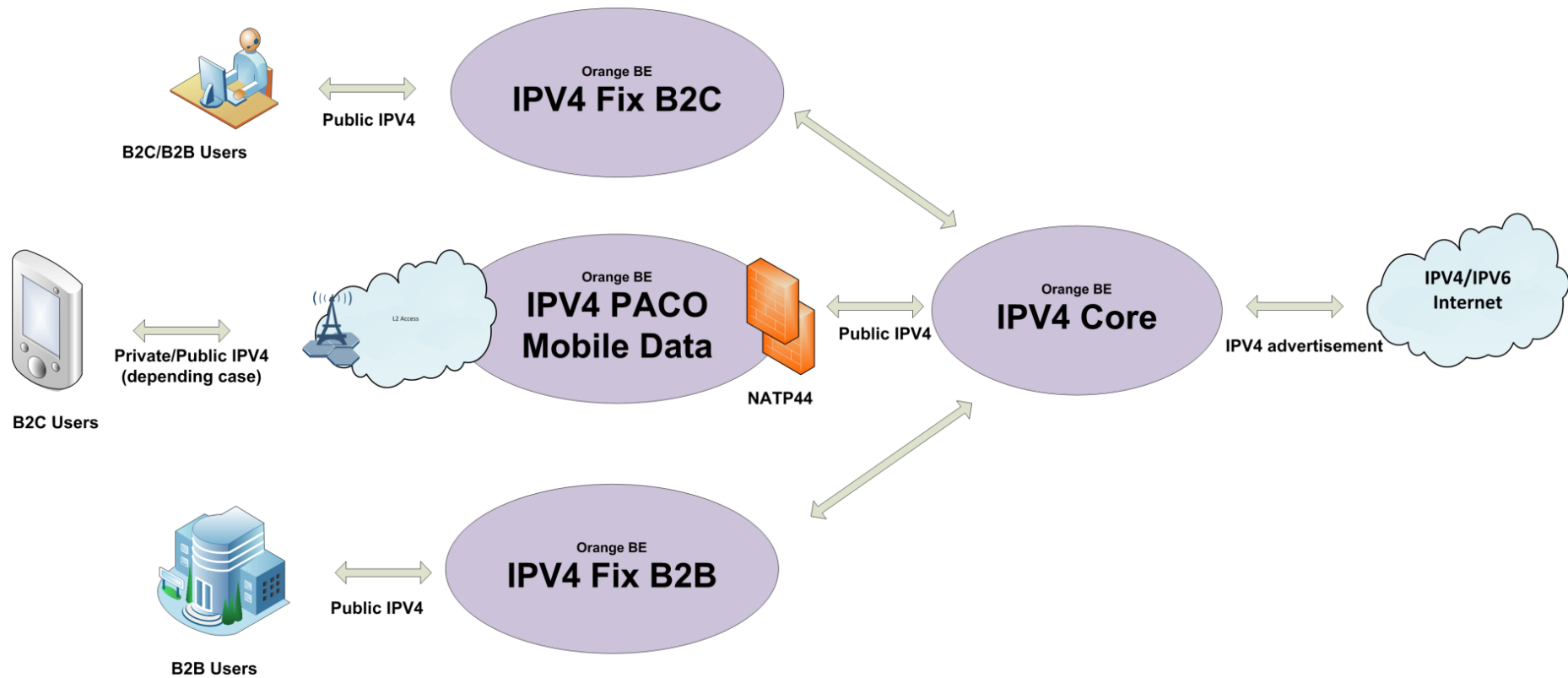
The Orange BE IPV6 strategy is derived from the Orange Group deployment recommendations.

IPV6 Orange Global allocation

- **Orange Group** **2a01:c000::0/19**
- **Orange BE Fix services** **2A01:CC00::/32**
- **Orange BE Mobile services** **2A01:CD20::/32**
- **Orange BE Corporate services** **2A01:C780::/32**

On the OBE network, development and test have been driven some years ago on the Corporate IPV6 network. Currently the focus is set on the IPV6 mobile data testing.

Orange BE IPV4 networks



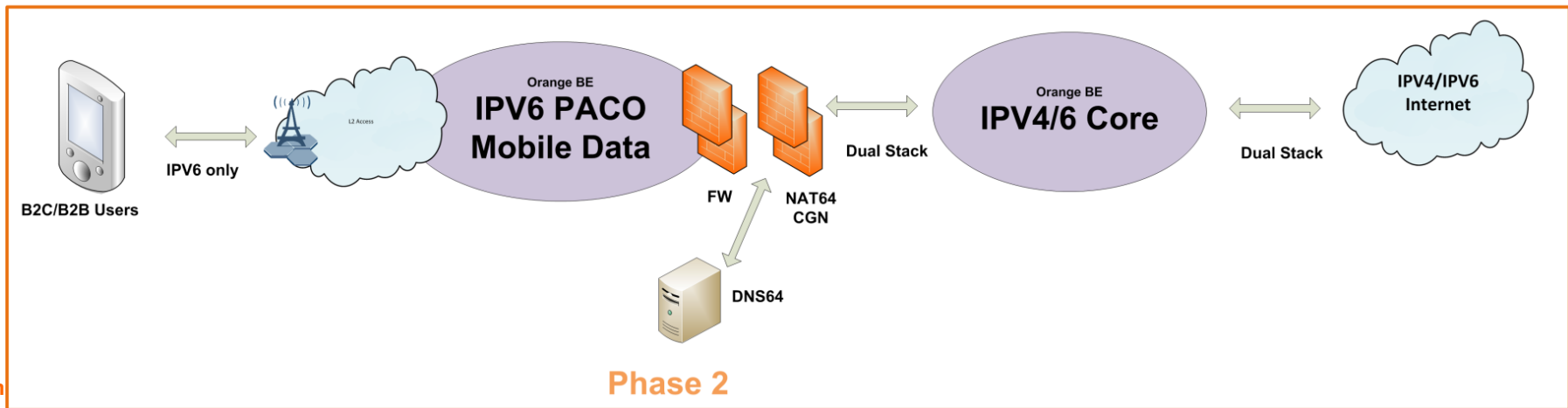
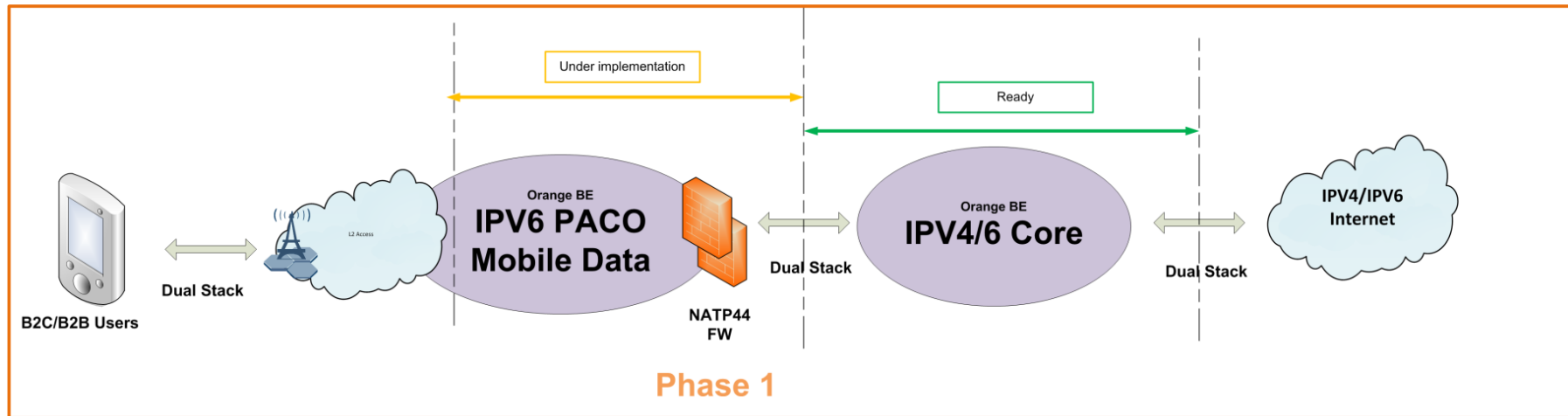
Orange BE IPV6 for Mobile Data

The first phase is move to a Dual Stack architecture, where both IPv4 and IPv6 PDP contexts will be established. the CGN function will still be handled by our FW for the IPV4 traffic.

On a second phase, an IPv6-only PDP contexts can be established and access to IPv4-formatted contents will then rely upon NAT64 capabilities to be deployed in the network via dedicated CGN devices.

We are currently deploying the phase 1 that should be operational for Q3 2018. The phase 2 is scheduled for 2019.

Orange BE IPV6 for mobile data



Orange BE IPV6 for Corporate

Corporate IP network is IPV6 ready

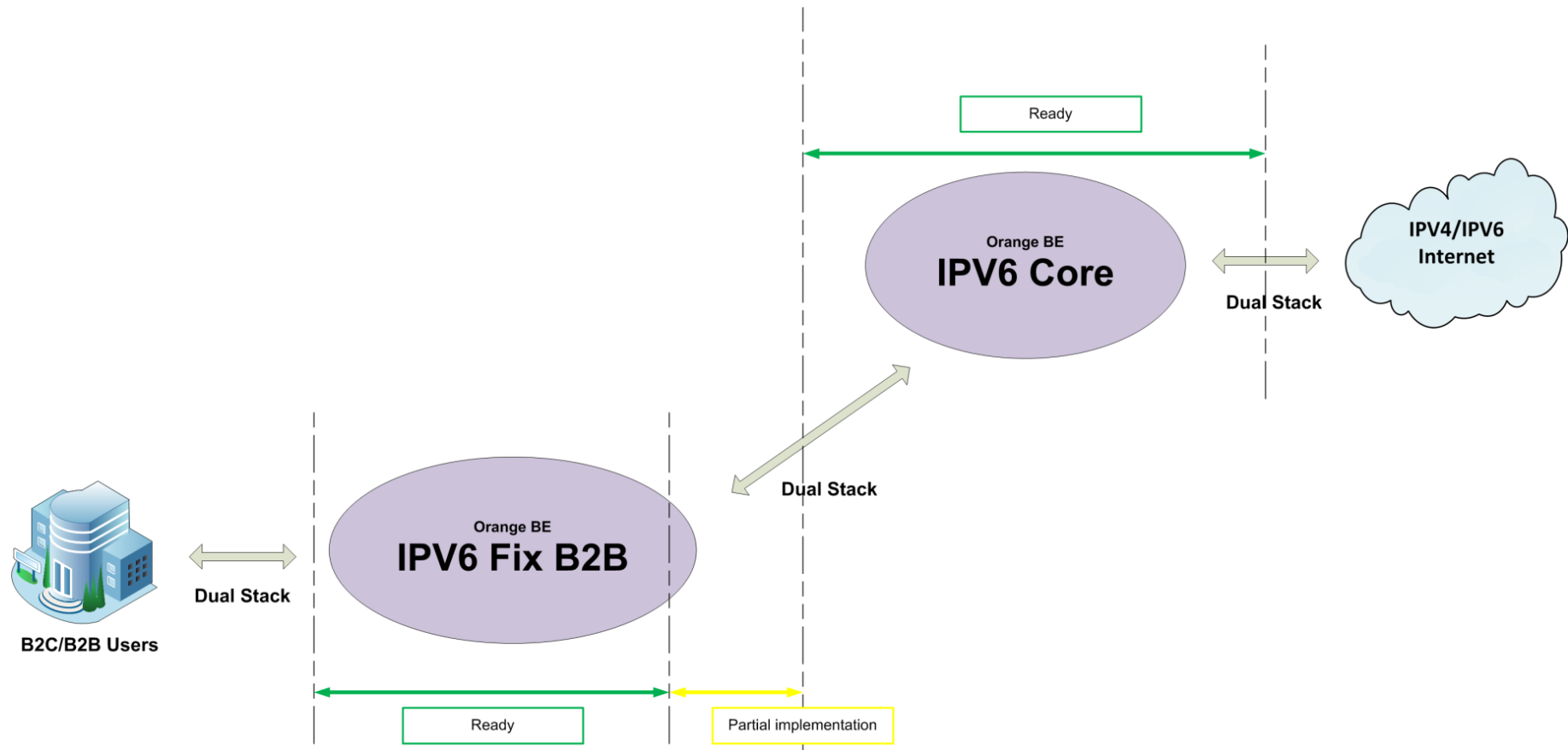
IPV6 basic product for Corporate tested few years ago (Dual Stack VPNV6)

Corporate IPV6 interconnections towards OBE IP Core to be build in 2019 (late deployment due to complex cleaning to be realized)

DS-Lite implementation on the Corporate IP network still to be defined/tested. Can be also considered as a target for 2019.

Note that all testing/architecture work has been realized in advance of any product marketing requirement for an IPV6 product creation.

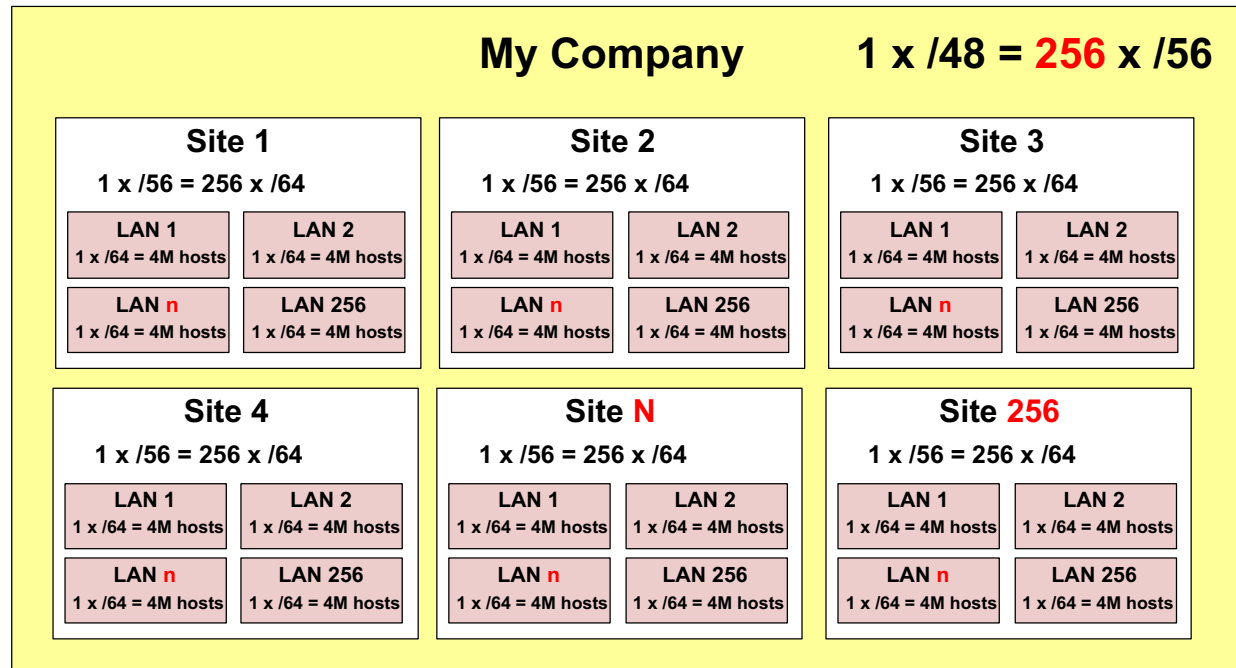
Orange BE IPV6 for Corporate



Orange BE IPV6 for Corporate

IPV6 corporate customer allocation strategy.

One /48 per corporate customer that would be split in 256 sites getting each a /56 IPV6 range.



Thank you

