

# Proximus IPv6 Status

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proximus

# Proximus, who are we

- Proximus Group is a telecommunication & ICT company operating in the Belgian and international markets, providing services to residential, enterprise and public customers. We are the leading provider of telephony, internet, television and network-based ICT services in Belgium through our Proximus, Scarlet & Mobile Vikings brands.
- We are active in Luxembourg through our affiliates Telindus Luxembourg for ICT and Tango for telecom. In the Netherlands we offer ICT services through Telindus Netherlands. BICS is our affiliate responsible for our international carrier services.

The Proximus logo features the word "proximus" in a dark blue, lowercase, sans-serif font. The letter "x" is stylized with two blue loops that cross each other.The Scarlet logo consists of a red handprint icon above the word "scarlet" in a red, lowercase, sans-serif font.The Mobile Vikings logo features a stylized grey dragon head icon above the words "MOBILE VIKINGS" in a grey, uppercase, sans-serif font.The Tango logo is a blue rounded rectangle containing the word "tango" in a white, lowercase, sans-serif font.The Telindus logo features a red and blue heart icon to the left of the word "telindus" in a black, lowercase, sans-serif font.

# Why ipv6

We want to avoid maximum impact of ipv4 exhaustion. The last ipv4 block we received from RIPE was in 2012 more than 10 years ago.

Our services consume extra ip addresses (extra customers, higher simultaneous usage, big increase of Mobile Internet/Smartphones, connected devices, more platforms that consume public ip addresses)

By implementing dual stack we can increase the non-natted traffic in our network (a big part of the flows is going via ipv6), and then communication between user and server is transparent.

We started with an ipv6 program in 2011, to guarantee IPv4 Internet business continuity and a smooth transition to the new IPv6 based Internet, products & services

# Status 15/10/2023

Started in 2013 by enabling dual stack on the CPE, we now have more than 1,6 million residential customers with ipv6 enabled.

Many professional customers with IPv6 enabled cpe and dual stack, but real adoption in Enterprises and SME remains low

| IPv4 connectivity |   | ↻ |
|-------------------|---|---|
| IPv4              | Supported                               | ? |
| Address           | 109.134.65.199                          | ? |
| Hostname          | 199.65-134-109.adsl-dyn.isp.belgacom.be | ? |
| ISP               | Proximus 🇧🇪                             | ? |

  

| IPv6 connectivity |   | ↻ |
|-------------------|---|---|
| IPv6              | Supported                               | ? |
| Address           | 2a02:a03f:89dc:2d00:e472:86a3:7c60:765b | ? |
| Type              | Native IPv6                             | ? |
| SLAAC             | No                                      | ? |
| ICMP              | Filtered                                | ? |
| Hostname          | None                                    | ? |
| ISP               | Proximus SA 🇧🇪                          | ? |



# Status ipv6 on Mobile Internet

Since many years we have CGN (carrier Grade Nat) implemented on Mobile Internet, with a limitation of 16 subscribers per shared ipv4 address

In 2020 a small trial with phones of network experts was started and allowed some smaller issues to be detected and solved.

Begin 2021 we started trial on the Android phones of most internal employees

In October 2021 we enabled ipv6 on many recent Android phones on the Proximus network

As from March 2022 also recent Apple IOS phones connected on the Proximus network are ipv6 enabled (dual stack)

12:19 4G+ 92%

home lock ipv6-test.com 18

## ipv6 test

### IPv4 connectivity

|          |   |   |
|----------|---|---|
| IPv4     | Supported                               | ? |
| Address  | 81.169.54.11                            | ? |
| Hostname | 11-54-169-81.mobileinternet.proximus.be | ? |
| ISP      | Proximus                                | ? |

### IPv6 connectivity

|          |                                 |   |
|----------|---------------------------------|---|
| IPv6     | Supported                       | ? |
| Address  | 2a02:a020:53:467c:1:0:847c:ace4 | ? |
| Type     | Native IPv6                     | ? |
| SLAAC    | No                              | ? |
| ICMP     | Not tested                      | ? |
| Hostname | None                            | ? |

Proximus SA