N1: 352 IP's

N2: 416 IP's

N3: 160 IP's

N4: 96 IP's

N5: 32 IP's

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Retea | Nr ip calc | Nr ip necesare | Nr ip (putere 2) | Netmask |
| N1 | 352 | 352 + 1 + 1 + 1 = 355 | 2^9 = 512 | /23 |
| N2 | 416 | 419 | 2^9 = 512 | /23 |
| N3 | 160 | 163 | 2^8 = 256 | /24 |
| N4 | 96 | 99 | 2^7 = 128 | /25 |
| N5 | 32 | 35 | 2^6 = 64 | /26 |

**155.190.40.0 / 21 –** 2^11 ip-uri

* **155.190.40.0 / 22 –** are 2^10 ips

Adresa de retea: 155.190.40.0

Adresa de bcast: 155.190.43.255

* **155.190.40.0 / 23 –** are 2^9 ips pentru N1
* **155.190.42.0** **/ 23** – are 2^9 ips pentru N2
* **155.190.44.0 / 22 –** are 2^10 ips

Adresa de retea: 155.190.44.0

Adrsa de bcast: 155.190.47.255

* **155.190.44.0/23** – are 2^9 ips
  + **155.190.44.0/24** – are 2^8 ips pentru N3
  + **155.190.45.0/24** – ae 2^8 ips pentru VLAN
* **155.190.46.0/23** – are 2^9 ips
  + **155.190.46.0/24** – are 2^8 ips
    - **155.190.46.0/25** – are 2^7 ips pentru N4
    - **155.190.46.128/25** - are 2^7
      * **155.190.46.128/26** – are 2^6 ips
        + **155.190.46.128/27**  - are 2^5 ips

**155**.**190.46.128/28** – are 2^4 ips pentru N8

**155**.**190.46.144/28 –** are 2^4 ips

**155**.**190.46.144/29** – are 2^3 ips pentru N6

**155**.**190.46.152/29 –** are 2^3 ips pentru N7

* + - * + **155**.**190.46.160/27 –** are 2^5 ips

**155.190.46.160/28** – are 2^4 ips

**155.190.46.160/29 –** are 2^3 ips pentru N9

**155.190.46.168/29** – are 2^3 ips

**155.190.46.176/28** – are 2^4 ips LIBER

* + - * **155.190.46.192/26** – are 2^6 ips LIBER
  + **155.190.47.0/24** – are 2^8 ips
    - **155.190.47.0/25** – are 2^7 ips
      * **155.190.47.0/26** – are 2^6 ips pentru N5
      * **155.190.47.64/26** LIBER
    - **155.190.47.128/25** – are 2^7 ips LIBER