



InterLAN-IX

update

Who are we

- InterLAN Internet Exchange is a private company owned by Interlan Association (Asociația Interlan)
- Interlan Association is a not for profit organisation of Internet Service Providers in Romania founded in 2005, currently having 45 members
- Members of the Association are Romanian ISPs only
- InterLAN-IX maintenance and development is managed by the Association, along with other services intended to support the activity of its members
- The name InterLAN comes from “Interconnecting Local Area Networks”

InterLAN-IX



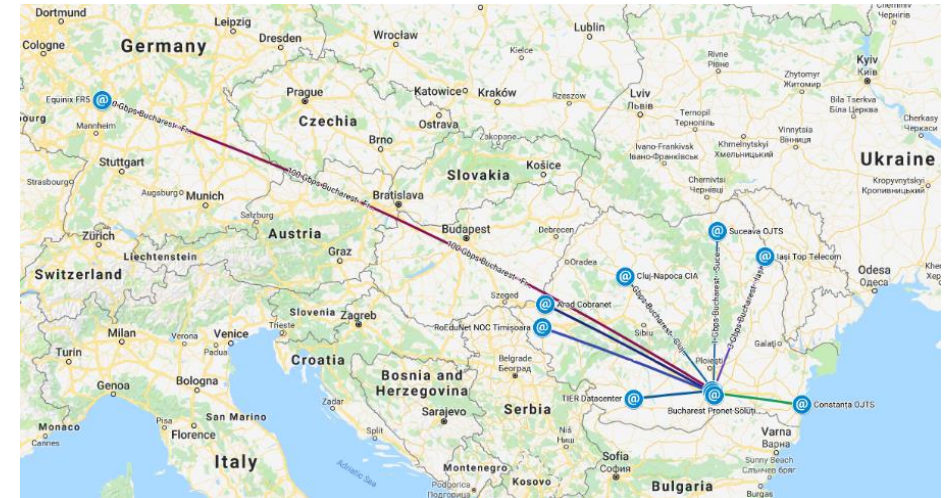
- Distributed exchange platform available at 15 Facilities on the same peering VLAN: 7 in Bucharest, 7 in major cities representing regions of Romania and 1 in Frankfurt, Germany
- 130 ASNs from Romania as well as from the region and worldwide connected
- Multicast streams via TV Exchange service (TVX)
- 5 DNS Root anycast instances: D, E, F, K, L
- AS112 service
- RIPE NCC Route Collector RRC22 (RIS) & AuthDNS
- NTP time server member of ro.pool.ntp.org
- Ookla Speedtest server
- IXP Manager peering tool
- MANRS compliant

National & regional infrastructure



179 ports in 15 POPs:

- 7 POPs in Bucharest over 40G ring (NXDATA-1, NXDATA-2, Voxility, M247, Teletrans, Radiocom, Ines Group)
- 7 POPs over 10G links in Arad, Cluj-Napoca, Constanța, Craiova, Iași, Suceava, Timișoara
- 1 POP over 200G link in Frankfurt Equinix FR5

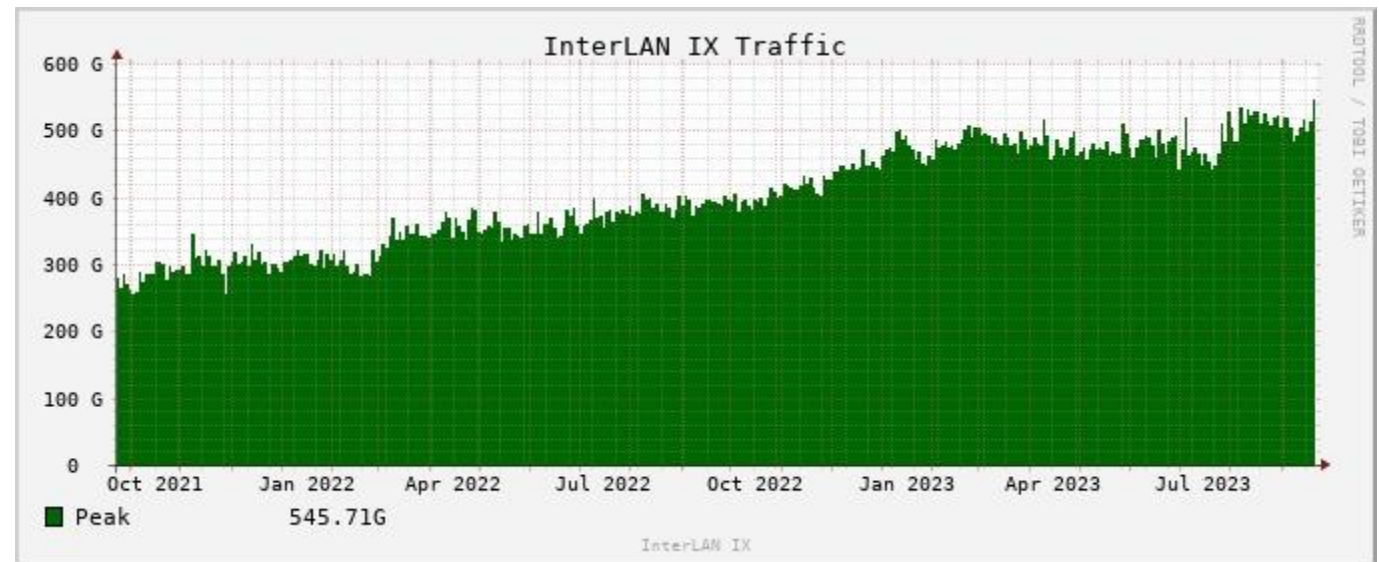


Connected capacity & Traffic

Today's daily peak traffic: >500 Gbps

Connected ports:

- 16 ports x 100G
- 4 ports x 40G
- 116 ports x 10G
- 37 ports x 1G
- 6 ports x 100M



Total connected capacity: 2,958T

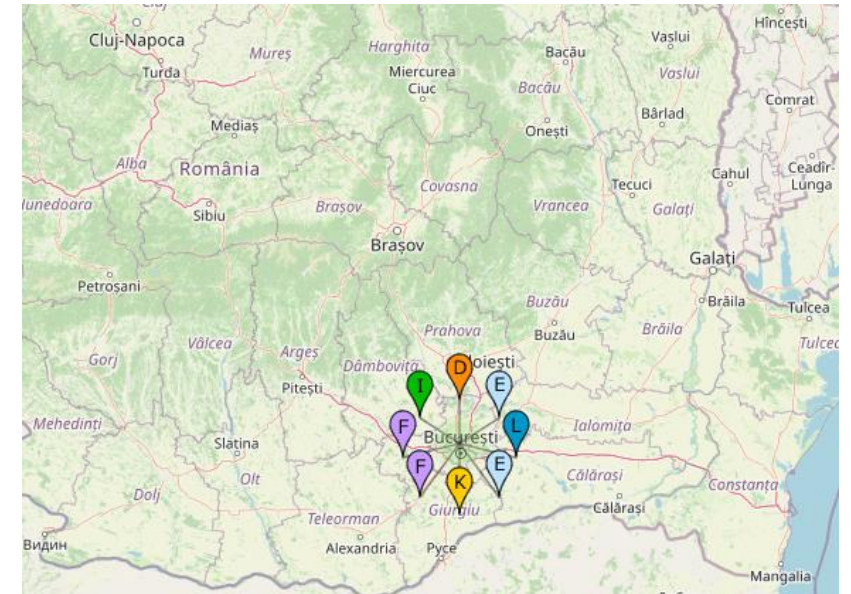
DNS Root Servers

As of 25 September 2023, the root server system consists of 1751 instances operated by the 12 independent organisations.

All 8 DNS Root Anycast Servers in Romania are hosted in Bucharest.

5 out of 8 DNS Root Anycast Servers in Bucharest are hosted by InterLAN:

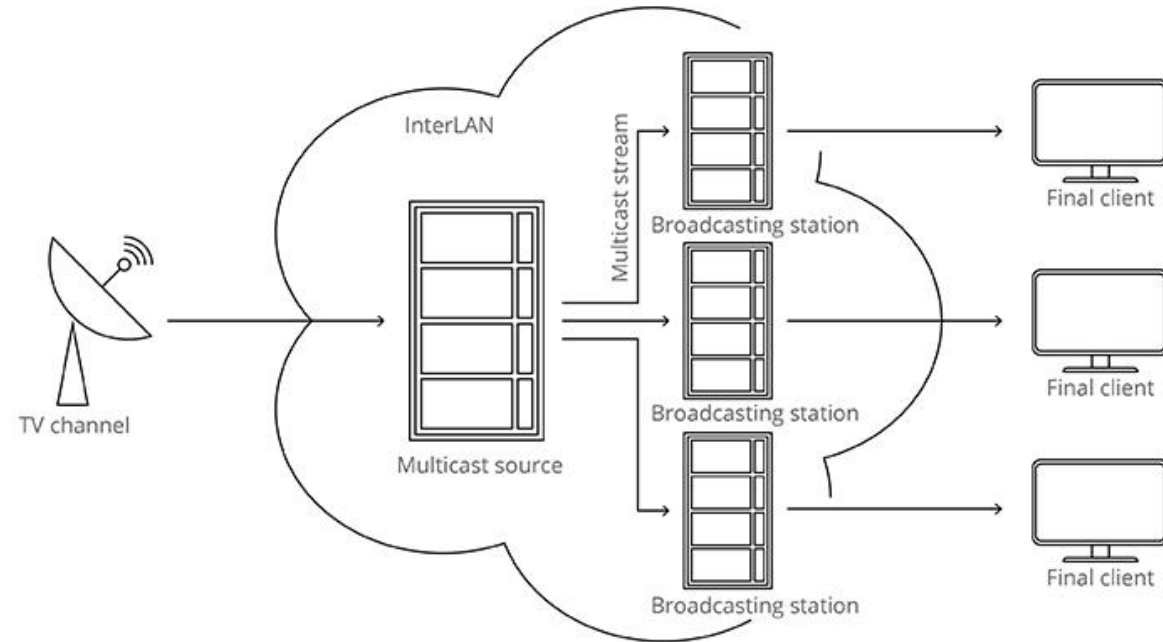
- D-Root (University of Maryland)
- E-Root (NASA Ames Research Center)
- F-Root (Internet Systems Consortium)
- K-Root (RIPE NCC)
- L-Root (ICANN)



TV Exchange Media Platform



- 179 streams
- 123 TV channels
- Multicast MPTS/SPTS and unicast
- Stream management app in development



IXP Manager



- InterLAN-IX uses IXP Manager, a management system for Internet Exchanges
- Includes administration and customer portal
- Provides end to end provisioning
- Allows IXPs to manage new customers, provision new connections and services and monitor traffic usage.
- Released by INEX under an open source license
- 218 IXPs worldwide are using IXP Manager as of September 2023
- InterLAN-IX is a Bronze Sponsor of this project since January 2018

PeeringDB



PeeringDB information:

- InterLAN Internet Exchange:
<https://www.peeringdb.com/ix/270>
- InterLAN Route Servers:
<https://www.peeringdb.com/net/11965>

Peers	Connections	Open Peers	Total Speed	% with IPv6
106	124	85	2.6T	87
Organizație	Interlan Internet Exchange SRL			
Cunoscut ca și	InterLAN			
Nume lung	InterLAN Internet Exchange Romania			
Oraș	Bucharest, Arad, Cluj-Napoca, Constanta, Craiova, Iasi, Suceava, Timisoara			
Țară	RO			
Regiune continentală	Europa			
Tip media	Multiple			
Nivelul serviciului	Asistență 24/7			

Supporting PeeringDB:

- InterLAN is a Silver Sponsor of this project since January 2020
- Romanian language interface translation done by 100%.

Current developments

- Implementing Nokia SR-2se switch featuring its state of the art FP5 chipset in main POP, NXDATA-1 Bucharest
- Implementing Nokia IXR Xs switches in NXDATA-2 Bucharest and Equinix FR5 Frankfurt
- Improved traffic management with EVPN and MPLS
- New 400G ports to be available next year
- 800G ready!

Events hosted by InterLAN-IX

- 25th Euro-IX Forum: 26 - 28 October 2014, Bucharest
- RONOG 1: 29 October 2014, Bucharest
- RONOG 2: 29 October 2015, Bucharest
- RIPE 71: 16 – 20 November 2015 Bucharest
- RONOG 3 & ION Meeting: 12 October 2016, Bucharest
- RONOG 4: 31 October 2017, Bucharest
- RIPE SEE 7: 18-19 June 2018, Timișoara
- RONOG 5: 23 October 2018, Bucharest
- RONOG 6: 1 October 2019, Bucharest
- RONOG 7: 29 September 2022, Bucharest
- 37th Euro-IX Forum, 23-25 April 2023, Cluj-Napoca
- RONOG 8, 27 September 2023, Bucharest



Questions?



Eric Andrei Băleanu

eric.baleanu@interlan.ro

facebook.com/ericandrei

twitter.com/ericandrei

linkedin.com/in/ericandrei/