

INEX Operations Update September 2022

Barry O'Donovan INEX Members' Meeting September 22nd, 2022, Dublin





ETW

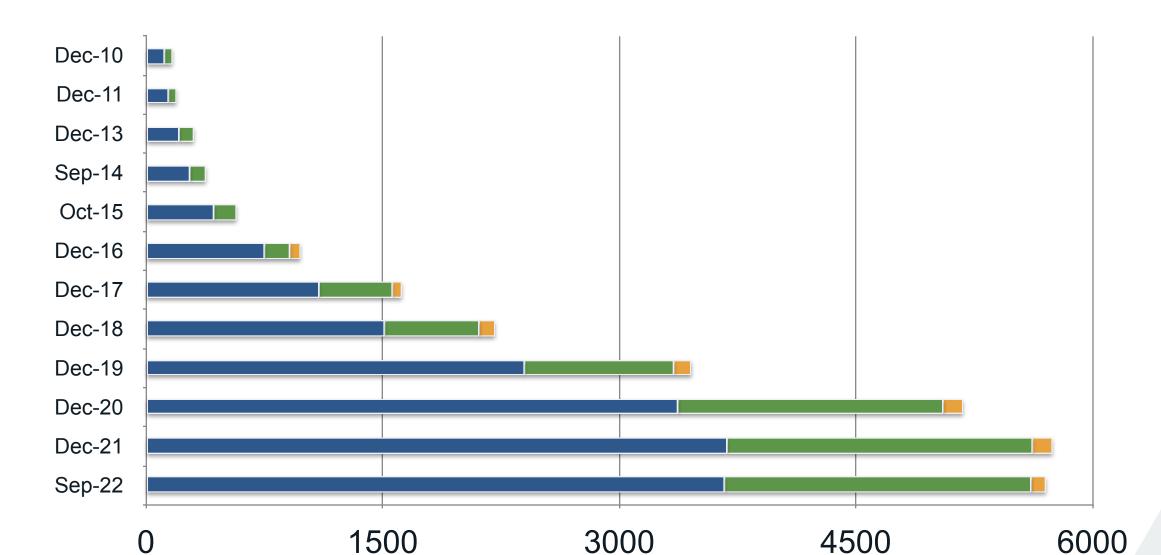
PEOPI

VER 25 YEARS



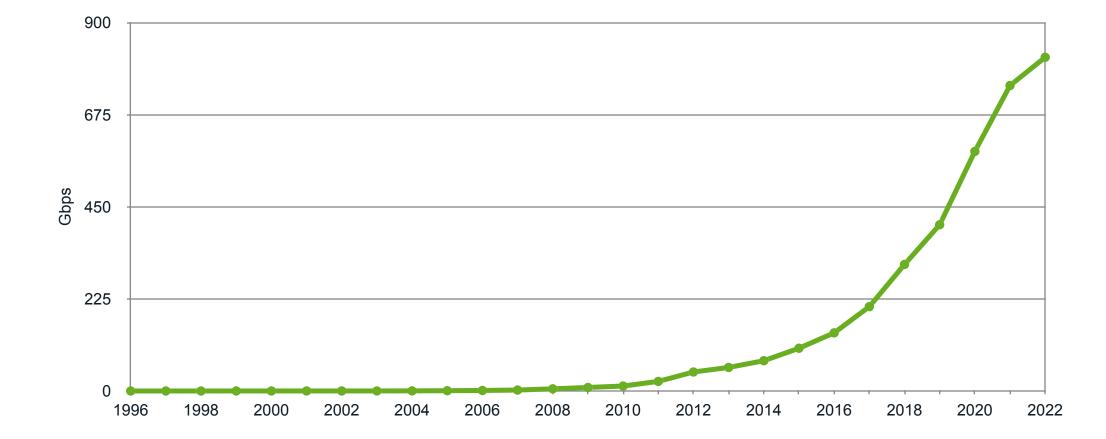
Traffic & Trends

Connected Edge Capacity



Traffic Peaks :: 1996 - Now



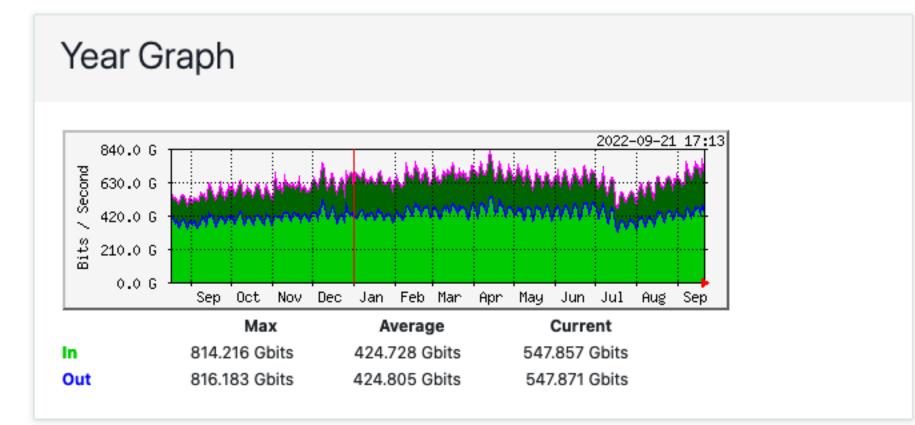


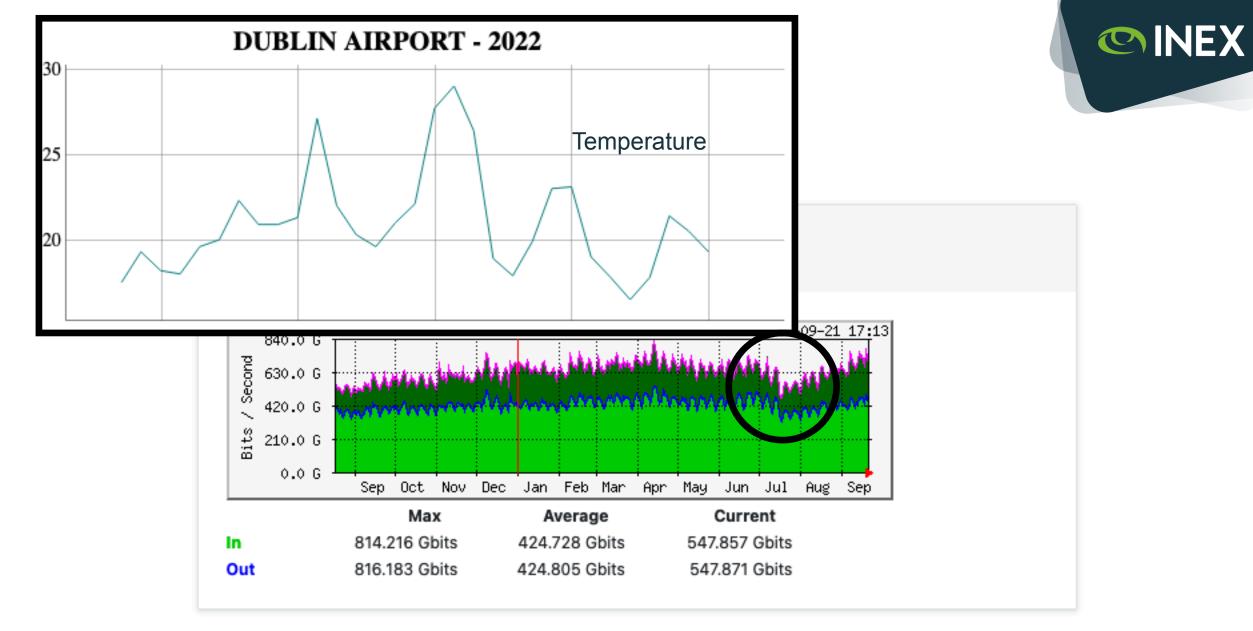


Traffic Peaks :: 1996 - Now - YoY Growth

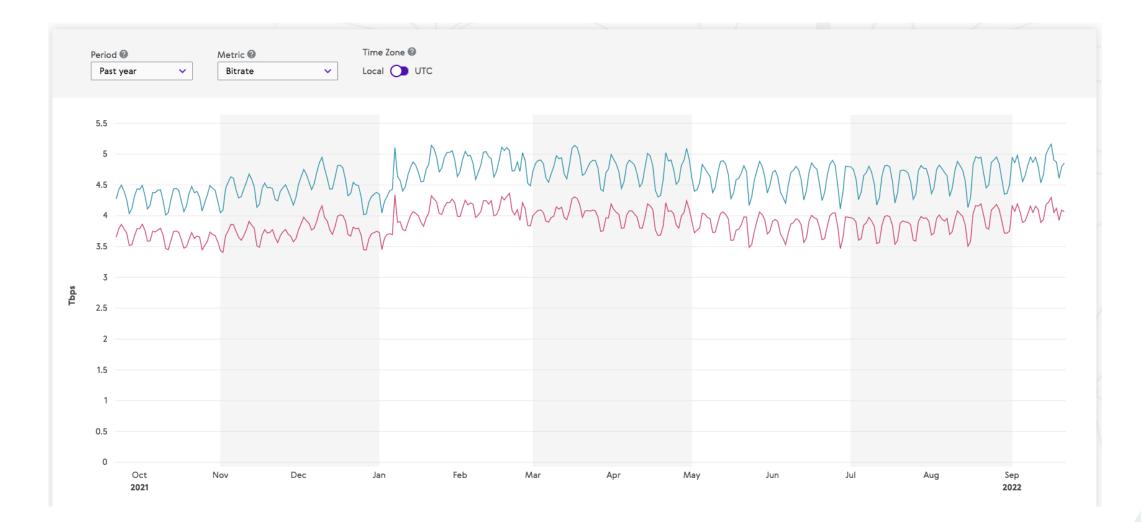


Annual Trend / Growth - INEX



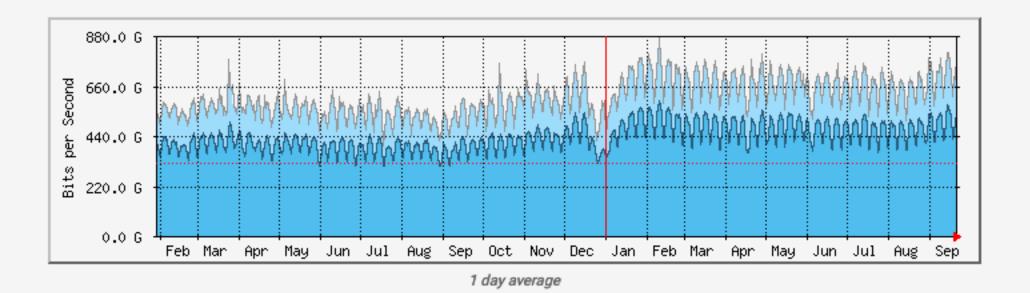


Annual Trend / Growth - LINX

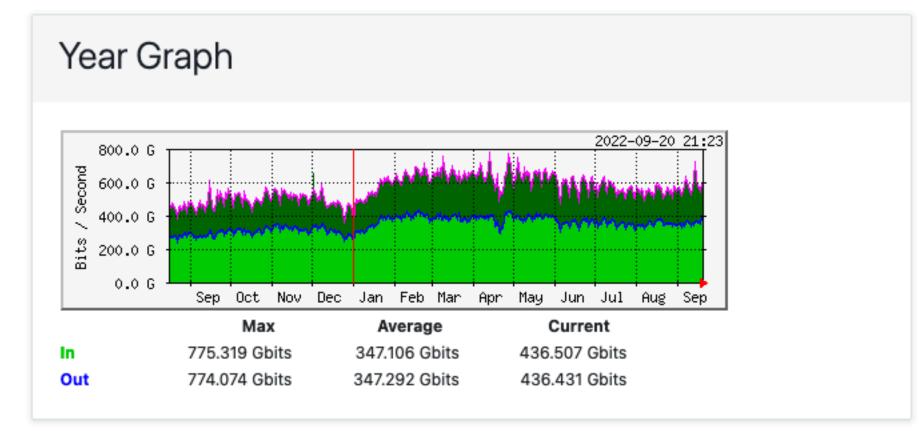


Annual Trend / Growth - LONAP

Yearly



Annual Trend / Growth - BCIX



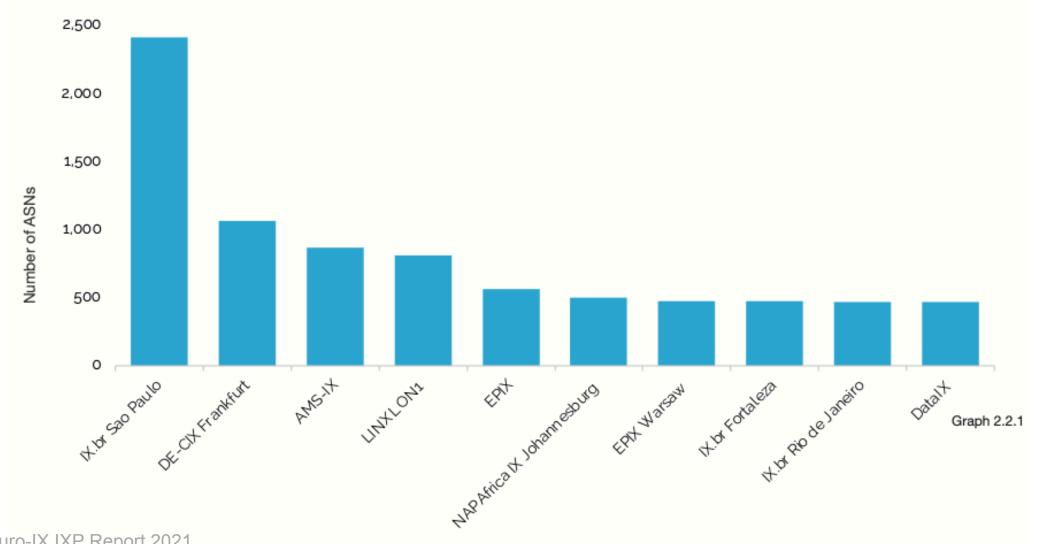


Global IXP Statistics

IXP Growth in Euro-IX Region



"Top 10" IXPs by Connected ASNs





There are at least 184 IXPs Powering Peering using IXP Manager around the world to connect 8,637 networks of which 5,199 are unique. The edge peering capacity of these networks is 269Tb over 18,294 connected ports. We aggregate traffic statistics from 118 IXP Manager platforms which show us that the peak traffic exchanged is 52.21 Tbps.







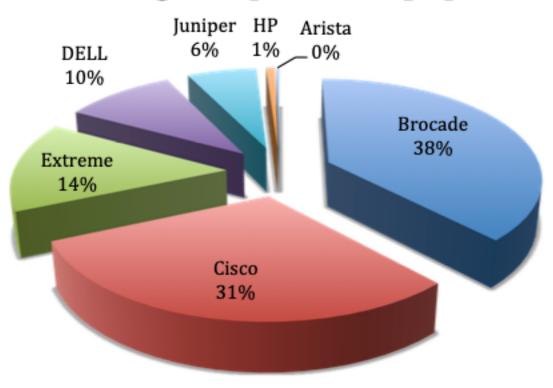


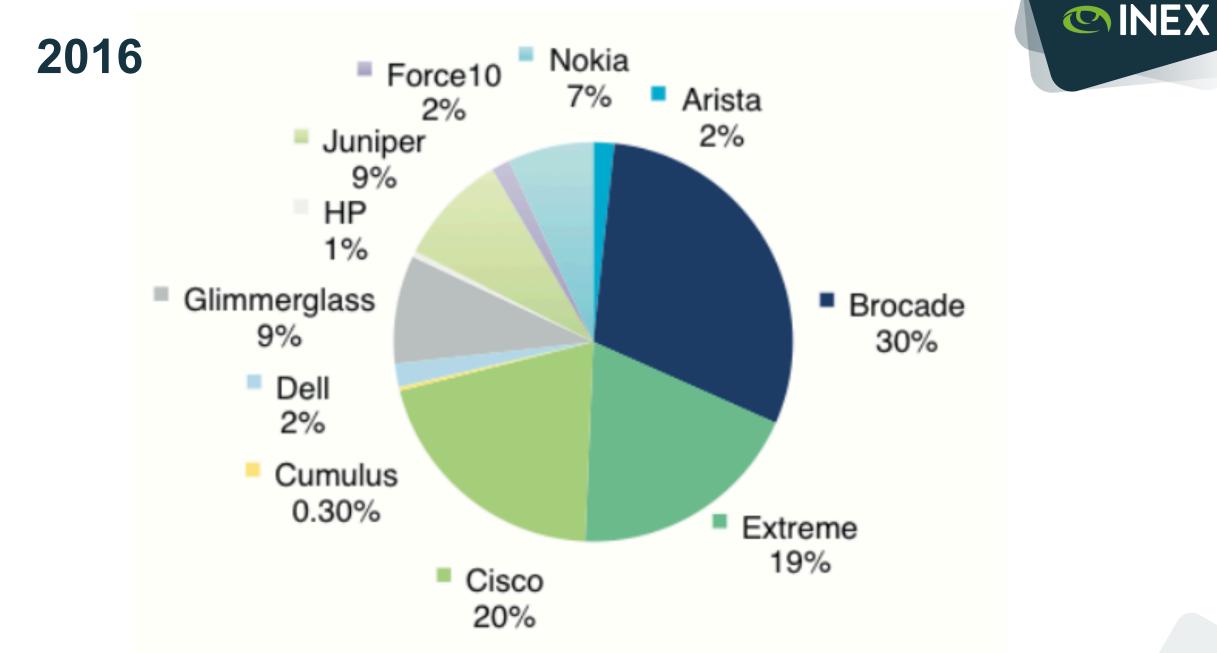
Switching Platforms @ IXPs

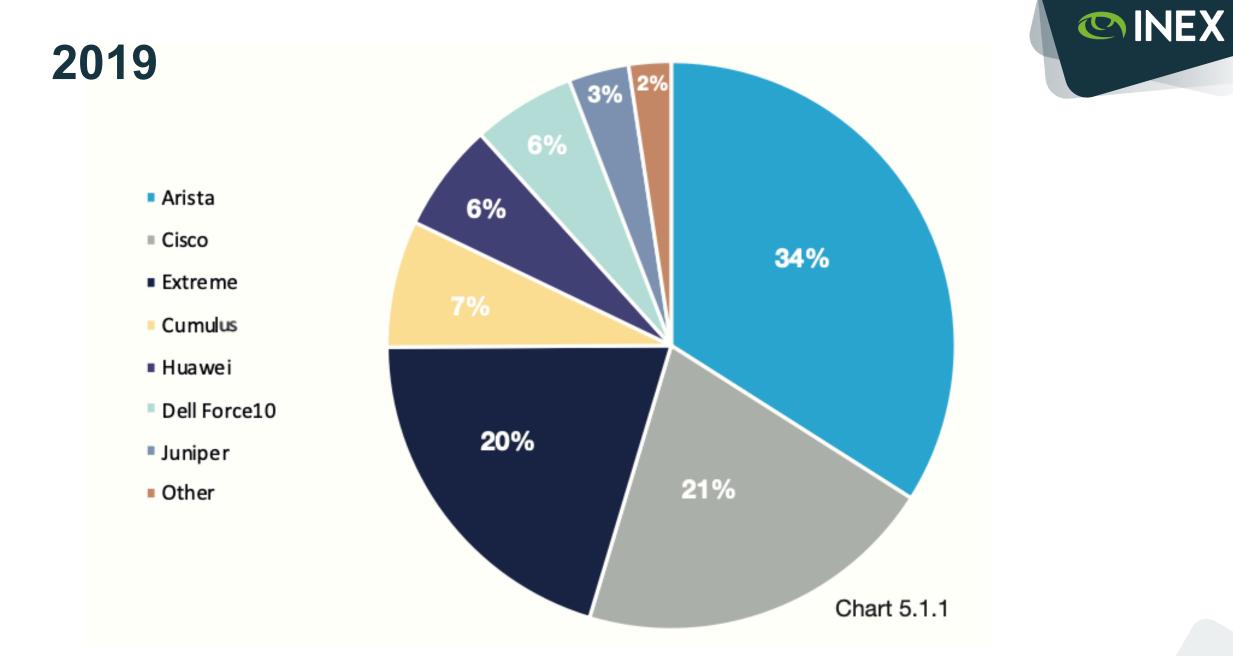




Market share of switch/router vendors among European IXPs [%]

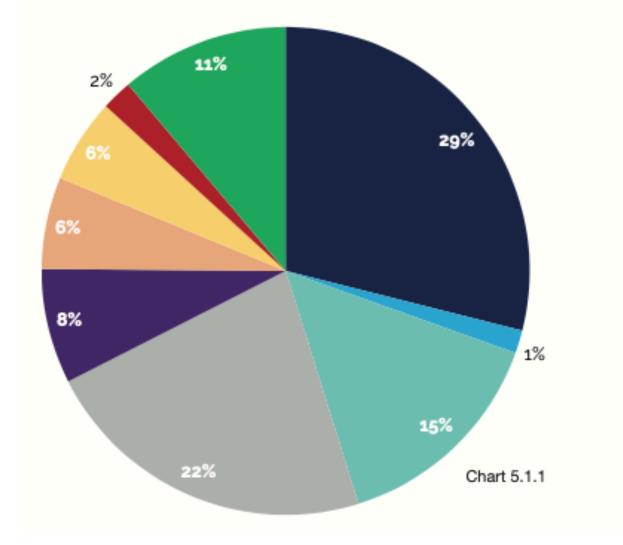






2021





- Arista
- Extreme
- Juniper Networks
- ≡Cisco Systems
- Huawei
- Extreme Networks
- Cisco
- Cumulus Networks

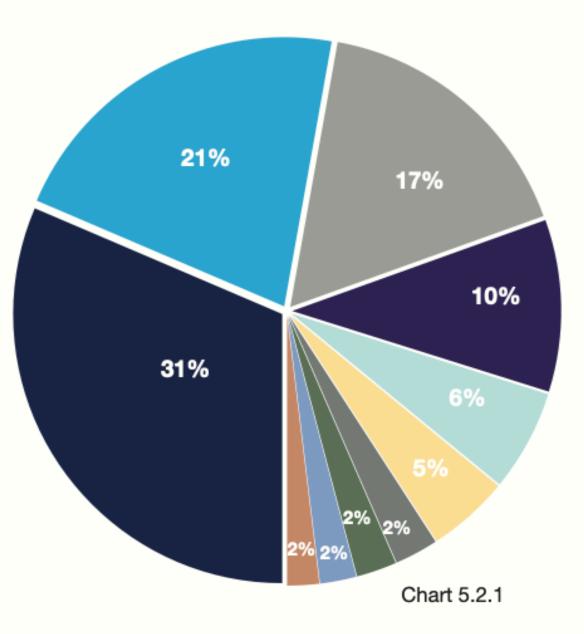
Linux



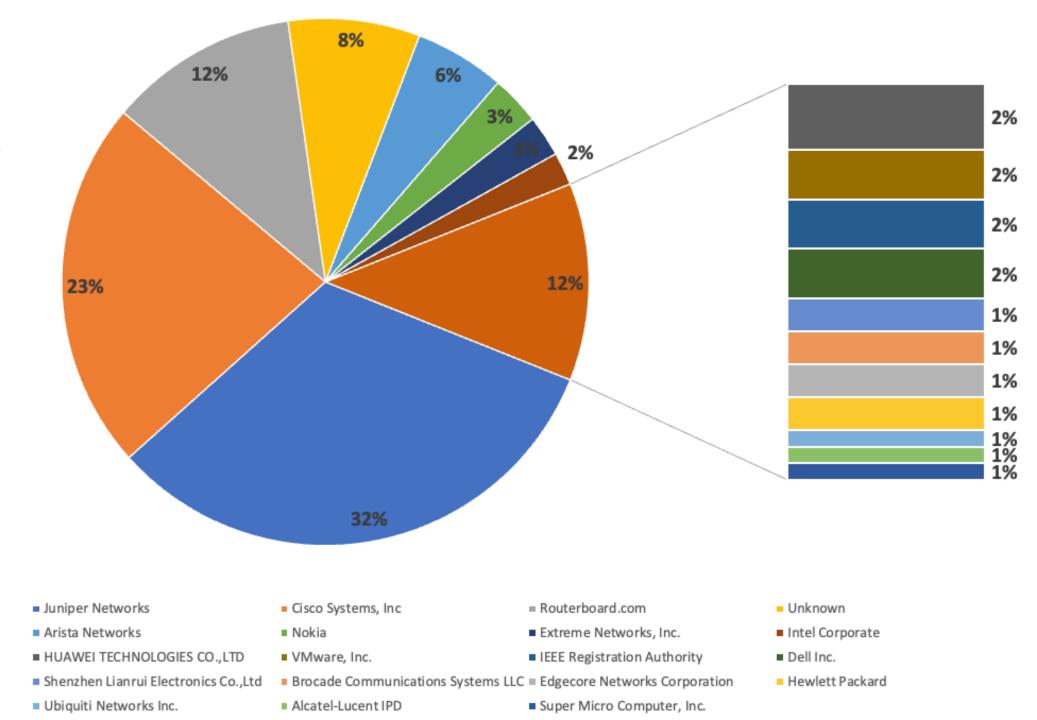
Member Platforms @ IXPs

2019

- Cisco Systems
- Juniper Networks
- Routerboard.com
- unknown
- Super Micro Computer
- Intel Corporate
- Huawei
- Arista
- VMware, Inc.
- Brocade



2022 @ INEX





Operations Update

Operations Update - Business as Usual

- New members, new connections, upgrades, migrations
- Route collector issue resolved as planned in April
- Route server clusters #1 and #2 refreshed as planned in June
- Issue with AS112 (similar to rc1) in July, non-service affecting
- Transceiver failures, line card reset
- Support requests
- Continued engagement with BH Consulting on ISO27001
- Reminder: EOL'ing 1Gb ports
- Management servers from Dublin recycled to Cork as planned
- DWDM transmission network stable* since upgrades



IXP Manager



New project website: www.ixpmanager.org (and @ixpmanager)

Have issued a call for sponsors - two at *Platinum* level already ISOC, swissix

Looking for a full-time PHP developer #jobfairy

Have a one year development plan (plus three year outlook)

Sponsorship-Led Features

- Migration of controllers and views from ZF to Laravel
- Migration of ORM from Doctrine2 to Laravel Eloquent
- Layer2 ACLs
- Patch Panel / Cross Connect Management
- Core Bundles
- User Interface Testing
- OAuth (with PeeringDB), 2FA and authentication rewrite
- DB Listeners and Logging CRUD Operations
- And much much more....



- As you know, Yann Robin moved back to France late 2021
- We are now recruiting a new PHP developer
 - This is funded via sponsorship.
 - If you know anyone, please point them in our direction.
- New release imminent route server filtering.
- "Gifted" a NCC Group security audit of IXP Manager
 - Fixes in next release.

Thank you

CONEX INTERCONNECTING NETWORKS AND PEOPLE FOR OVER 25 YEARS J THEFT