



NAMEX UPDATE

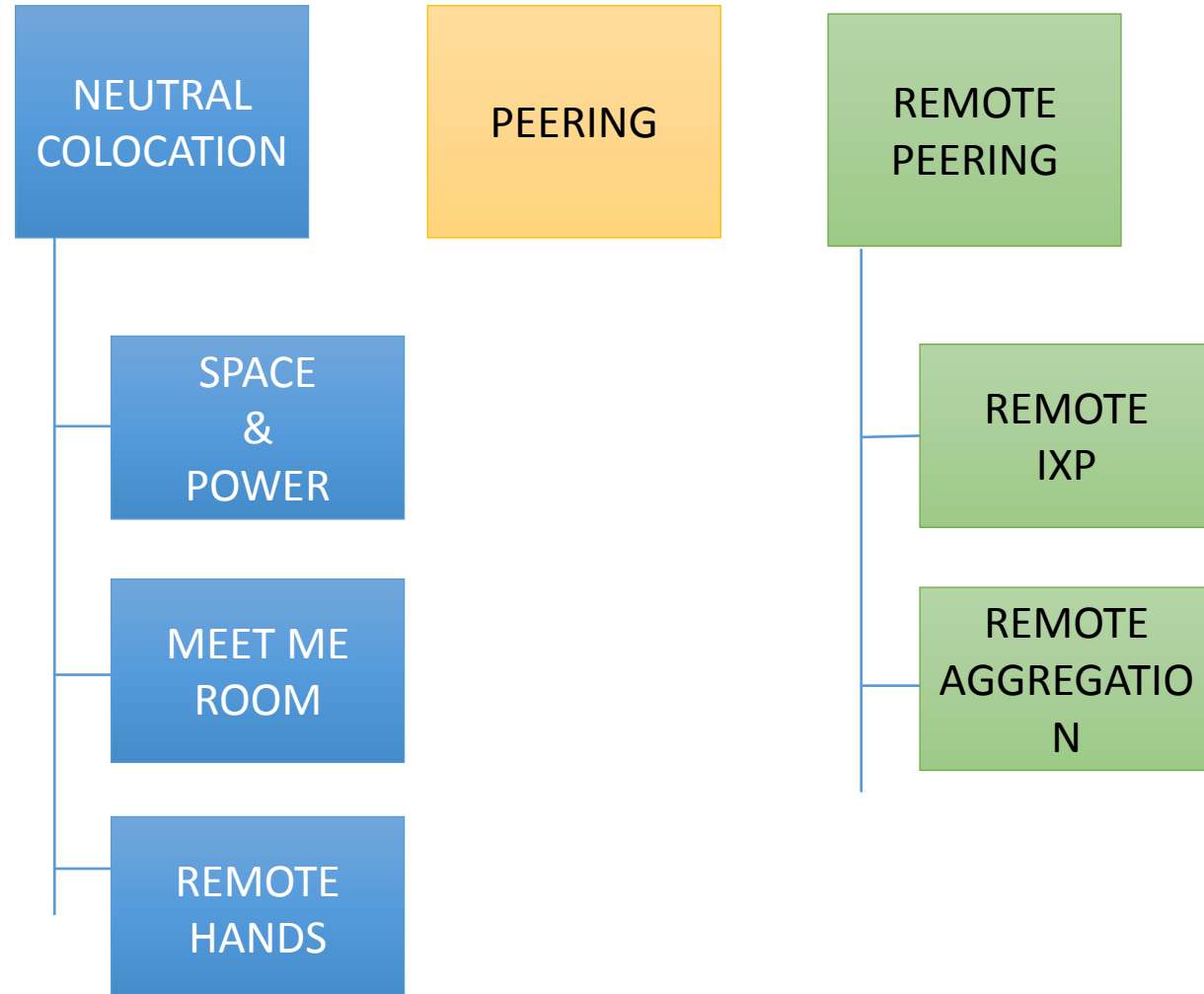
Roma Internet eXchange Point

<https://www.peeringdb.com/ix/121>

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Chief Innovation Officer

QUICK FACTS

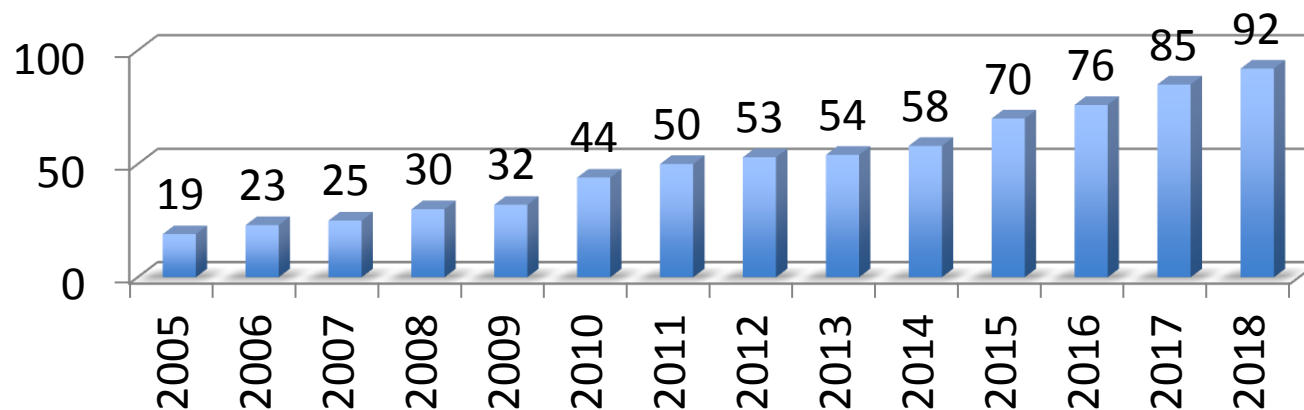
- Neutral, no profit, member-based
- 92 connected networks
- Public peering, remote peering, colocation
- 160 racks colocated, about 800 PNI
- 60Gbps publicly exchanged traffic



MEMBERS UPDATE



Connected ISPs



TECHNICAL DEVELOPMENT (1)

- New route server software
 - the new platform is based on bird (complement the existing platform based on openBGPD)
 - Improving software diversity and redundancy
- Route Server infrastructure supports:
 - IRRDB ingress filtering
 - export policies specification capabilities via BGP large communities
- NAMEX contributes the development and improvement by supporting funding programs for both software



TECHNICAL DEVELOPMENT (2)

- MY NAMEX web portal
 - aims to be a one-stop shop for all technical and administrative information regarding a member's connection to the exchange

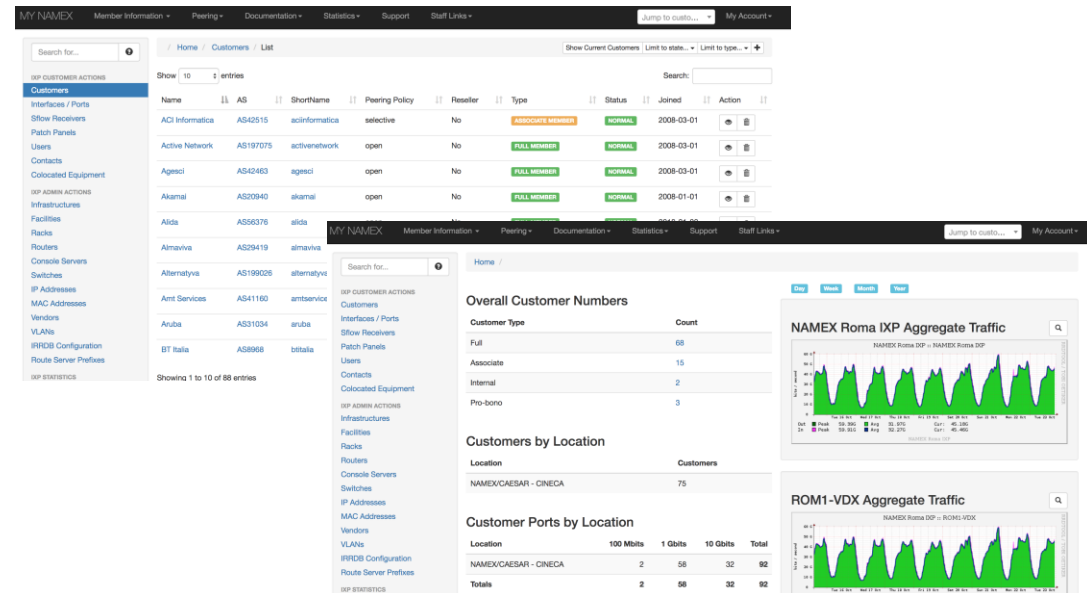


- Initial deployment

- Statistics SNMP/SFLOW
- IPv4/IPv6/P2P traffic
- Latency: smokeping graph
- Peering matrix

- Additional information

- Members contacts and connection status
- MMR/Cross connect information
- Technical and specification docs / board and committee minutes



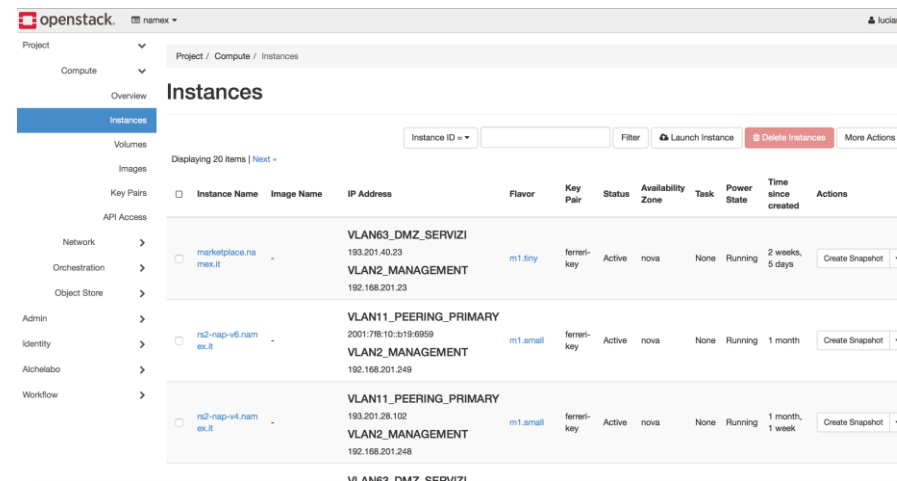
TECHNICAL DEVELOPMENT (3)

- Disposal of secondary peering LAN
 - migration is in progress
 - secondary vlan is not supported any more and will be removed from the switching infrastructure by the end of the year
- Renumbering heads-up
 - as part of the transition path to a single peering LAN, the current subnet mask for the primary peering LAN is going to be moved from /25 to /24

Primary Peering LAN: **193.201.28.0/25 => 193.201.28.0/24**

TECHNICAL DEVELOPMENT (4)

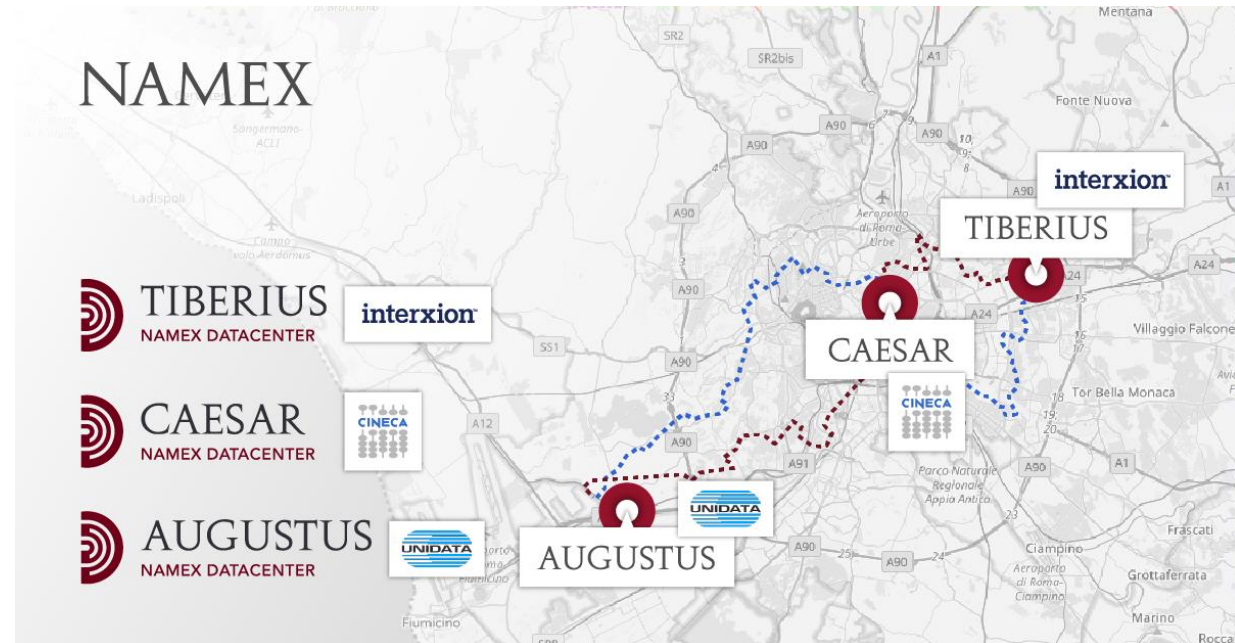
- NAMEX built a hyperconverged architecture based on openstack and ceph
- The initial goal is to virtualize the physical machine running services such as monitoring, namex web portal, sflow collector, dns, route servers etc

A screenshot of the OpenStack dashboard showing the 'Instances' page. The page displays a table of running instances with columns for Instance Name, Image Name, IP Address, Flavor, Key Pair, Status, Availability Zone, Task, Power State, Time since created, and Actions. The instances listed are 'VLAN63_DMZ_SERVIZI', 'VLAN2_MANAGEMENT', 'VLAN11_PEERING_PRIMARY', and 'VLAN2_MANAGEMENT'. The dashboard also shows a sidebar with navigation links for Project, Compute, Overview, Instances, Volumes, Images, Key Pairs, API Access, Network, Orchestration, Object Store, Admin, Identity, Alchilabo, and Workflow.

Instance Name	Image Name	IP Address	Flavor	Key Pair	Status	Availability Zone	Task	Power State	Time since created	Actions
marketplace.namex.it		193.201.40.23	m1.small	ferret-key	Active	nova	None	Running	2 weeks, 5 days	Create Snapshot
ns2-nap-v4.namex.it		192.168.201.23	m1.small	ferret-key	Active	nova	None	Running	1 month, 1 week	Create Snapshot
ns2-nap-v4.namex.it		2001:78b:10:b19:6959	m1.small	ferret-key	Active	nova	None	Running	1 month, 1 week	Create Snapshot
ns2-nap-v4.namex.it		192.168.201.248	m1.small	ferret-key	Active	nova	None	Running	1 month, 1 week	Create Snapshot

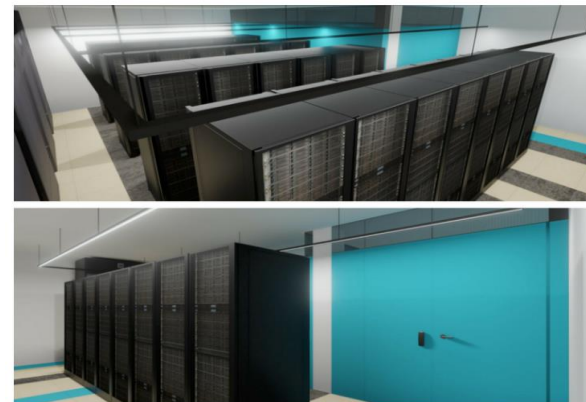
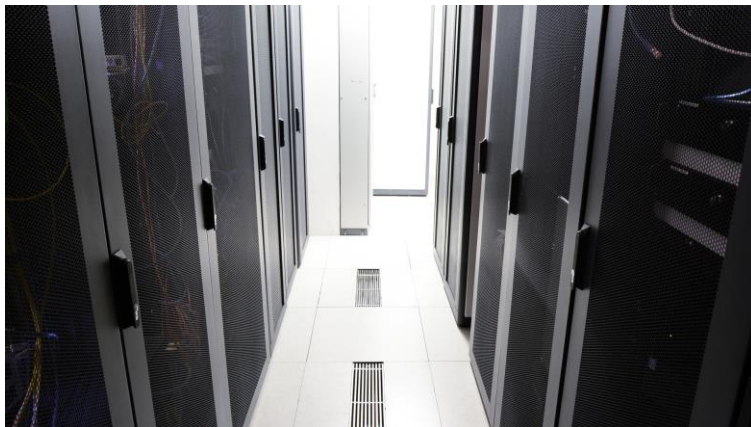
NEW DATACENTER ENVIRONMENT

- Due to recent growth, we've expanded our datacenter to be able to process the growing demand for new ISPs joining NaMeX
- We opened two new PoPs in Rome, hosting two new sites that will be an extension of NaMeX infrastructure
- The datacenter system is homogeneous and guarantees high-quality service regardless of the site where we host the ISP. The three PoPs are linked by a dark fiber path



MAIN SITE EXPANSION

- NAMEX enlarged the space acquiring a neighbouring space and Caesar now has 220 sqm for additional racks and 150 sqm of technical rooms (in addition to the old 500sqm)
- +1 800KW engine generator to replace the previous 320KW generator
- +2 800KW transformers to replace the previous two 400KW transformers
- +1 500KW UPS in addition to two existing 200KW UPS



NAMEX NATURAL HUB

NETFLIX

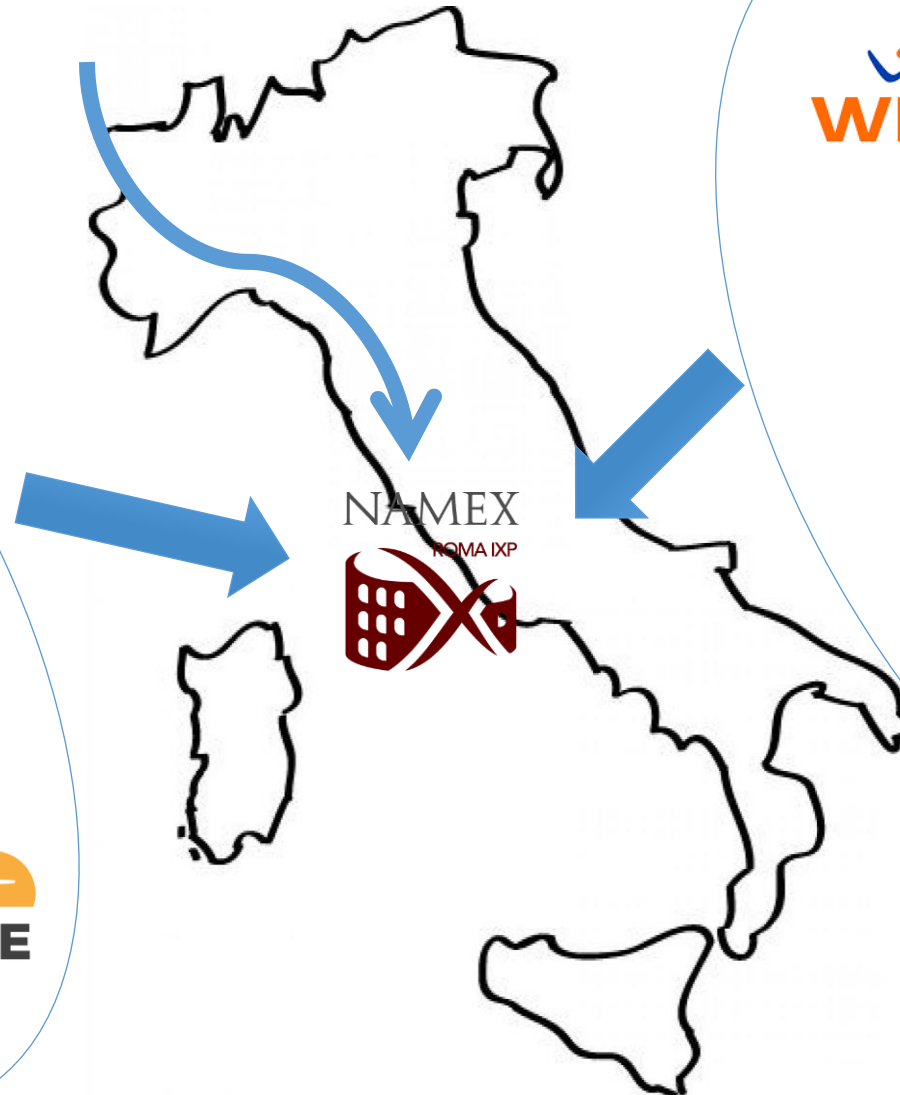


Akamai

Google



CLOUDFLARE



NAMEX
ROMA IXP



WIND



TIM

vodafone

FASTWEB

NAMEX MEETING/COMMUNITY/ACTIVITIES



LET'S TALK TO US!



Maurizio Goretti



Francesco Ferreri



Luca Davoli



Flavio Luciani

THANKS!
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