

Euro-IX Route Server Workshop - Turin
Tuesday 21st 10:00 - 18:00
Wednesday 10:00 - 14:00

Participants

- AMS-IX
- LU-CIX
- BIRD
- OpenBGPd
- LINX
- TOP-IX
- VIX
- MIX
- DE-CIX
- Namex
- GR-IX
- NIX.CZ
- RomandIX
- NL-IX

Following the Topics discussed. . .

Topics

- Harald from VIX presented their RS work over the last years
- Johannes with Anton from DE-CIX talked about their RS BIRD2 Upgrade
- We welcomed the RS developers Maria (BIRD) and Claudio (OpenBGPD) where they gave us latest updates
- We dedicated two hours to discuss RS Policies with Stavros (AMS-IX) on IRR DB filters build
 - Update on the new policy for hierarchical AS-SETS
- Two more hours dedicated on BGP communities, large, std, RFC1997, RTBH
- Automation was also a topic. We invited Pier Carlo to virtually present us “Arouteserver”
- Maria informed us for possible upstreaming modules with Ansible for BIRD configuration
- Irene opened a discussion with a presentation for Monitoring Route Servers
 - System wise and Routing wise

- Looking glass – shared my POC with AliceLG and observed behavior
- Irene also talked about ECMP adoption in the IXP environment; showing the Algorithm/Program Irene had developed for BIRD to digest equal cost paths. It is evident that the consensus feels ECMP implementation for IXP is not a very used practice
- Marinos from GR-IX presented us the Birdseye implementation using extensions for gathering statistics based on BGP large communities
- Monitoring Tool, a security-enhanced Looking Glass from NIX.CZ named Bird-spy seems promising for the community once it is available on git.
 - Marian gave a short insight of the Product Architecture.
- Useful new features to come for OpenBGPd, as Claudio presented to us
 - Request to provide also MRT table dumps for testing
- Claudio and Irene insisted on more push for large BGP communities
- Anton had an open discussion for usage of MP-BGP
- Policy based decisions
 - The community is in favor of supporting the restriction of the amount of BGP communities that can be used per BGP feed
 - We decided to simplify it, allowing MAX 500 BGP communities of any type per BGP feed.

- Policy draft will be updated and sent out to mailing list for final comments
- BGP Extended comms decisions
 - Community is in favor of deprecating and stop using Extended communities on Route Servers
 - Support only standard and Large communities
 - Promote Large communities and enrich their functionality
- RFC1997 BGP communities
 - Community has a strong consensus on keeping them transparent on the Route Server implementations
 - No strip and no react
 - IXP manager is already doing that
- Interesting point, yet non technical, was the closing presentation of Maria
 - She informed us of the new legislation (still being processed by EU) which concern Cyber Resilience Act to secure software and hardware products
 - In short, every IXP that writes software and puts it in production is considered “a vendor” which must comply with upcoming audits for cyber security and data processing.