Benefits of Internet exchange points

by Franck Simon – France-IX

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8 Points de presence:
- 7 in and around Paris
- 1 in Marseille

Dual-core architecture for redundancy and resiliency
Various profiles of peers

- Operators, carriers, Internet service providers
- Emailing service providers
- Hosting companies
- E-commerce
- Big companies
- Content delivery networks
- Cloud experts
- Online media
Content Delivery Networks (CDN)

- Open peering policy,
- Unicast IPv4 & IPv6,
- Short and optimised paths through the IX (vs IP transit)
- Access to routes servers
- Interest in Marseille POP to reach Africa, Middle-East and Asia
Emailing Services Providers (ESP)

- Open peering policy,
- Unicast IPv4 & IPv6,
- Short and optimised paths & gain of costs,
- Possibility to have traffic ‘bursts’ (differentiate contractual bandwidth from the maximum capacity allowed by the physical port), as traffic is related to emailing campaigns
- Access to CDNs,
- Reachability of mailboxes of big hosters’ customers,
- Interest in Marseille PoP: to reach Asian destinations
Cloud Experts

- Open peering policy,
- Unicast IPv4 & IPv6,
- Short paths,
- Access to routes servers
Operators

- Open to selective peering policy,
- Unicast IPv4 & IPv6,
- Short and optimised paths,
- Access to routes servers (with requests to have integrated BGP communities),
- Access to private VLAN (when reselling partial or full IP transit),
- Use of the IX to send data, 3G flows and soon 4G flows
- Special interest for reaching CDNs
- Reseller program (for operators also acting as carriers),
## Recap chart

<table>
<thead>
<tr>
<th></th>
<th>Unicast IPv4 &amp; IPv6</th>
<th>Short paths</th>
<th>Routes servers</th>
<th>Private VLANs</th>
<th>Allow bursts of traffic</th>
<th>Access to Marseille</th>
<th>Reseller program</th>
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</thead>
<tbody>
<tr>
<td><strong>CDN</strong></td>
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Other case studies to come

- Only 4 peers’ profiles analyzed here

- Other services provided to our members:
  - Multicast (limited requests for it)
  - Interconnection with other IXPs,
  - NTP synchronisation,
  - Secondary DNS,
  - Access to root servers,
  - 24/NOC support,
  - Webportal with looking-glass, sFlow statistics…

- All type of peers will be studied in the future. Check out our website to see them (video + PDF)

https://www.franceix.net/en/members-resellers/case-study/
Developing new services

- Media flows exchange
- Traffic market place
- Shared test-bed
- SIP Peering
- Advanced security services
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