



France IX update

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France IX status (May 2011)

- Status, **after 10 months of operations** :
 - **7 PoPs** : 6 PoPs around Paris and 1 PoP in Marseille (Marseille PoP installation is being finalized), and some more PoPs to be deployed ...
 - **130 members**
 - Daily average traffic : **50 Gbps**
 - Partnership with 3 IXPs : SFINX (Paris), LYONIX (Lyon), LUCIX (Luxembourg) and merge of PaNap with France IX ... and some more partnerships being studied
 - Routes servers service : more than **10000 IPv4 routes**, and **250 IPv6 routes** advertized on France-IX routes servers

France IX services

- Ports :
 - 100/1000 Mbps UTP , 1 GE SX/LX, 10 GE-LR (10 GE-ER on-demand)
 - ⇒ Slow-start option available for 1 Gbps port (traffic up to 200 Mbps) and 10 Gbps port (traffic up to 2 Gbps)
- Public peering
 - Unicast IPv4 and IPv6 (same VLAN)
 - Multicast
- Closed user groups VLANs
- Routes servers (BIRD implementation)
- Gateway and partnerships with other IXPs :
 - Merge of PaNap (that used to be the biggest IXP in France) and France IX => PaNap members have been migrated to France IX
 - Gateways : SFINX + LYONIX (on-going) + LUCIX (on-going)
- 24/7 NOC
- Portal for members

France IX new architecture

- Important increase of traffic is planned for the next few months (more than 100 Gbps of traffic expected)
 - Till now France IX backbone was based on 1 or 2x10 Gbps links between edge PoPs and core PoPs (dual star architecture based on 2 core PoPs)
 - New France IX backbone is being prepared: still based on dark fibres, but this time WDM used (passive MUX/DMUX) in order to increase the capacity between PoPs. **Upgrade from 10 Gbps to 120 Gbps between the core PoPs**, and upgrade of some other backbone links from 10 Gbps to 20 or 40 Gbps => was planned in April, but delayed end of May.
 - **Implementation of VPLS** within the core, to optimize use of backbone links, avoid spanning-tree issues, and have real fast convergence capabilities => use of new Brocade MLX chassis on the 2 core PoPs , equipped with the latest switch-fabrics (the existing Force10 equipment will be kept on edge PoPs).

Questions

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