Benefits of Internet exchange points
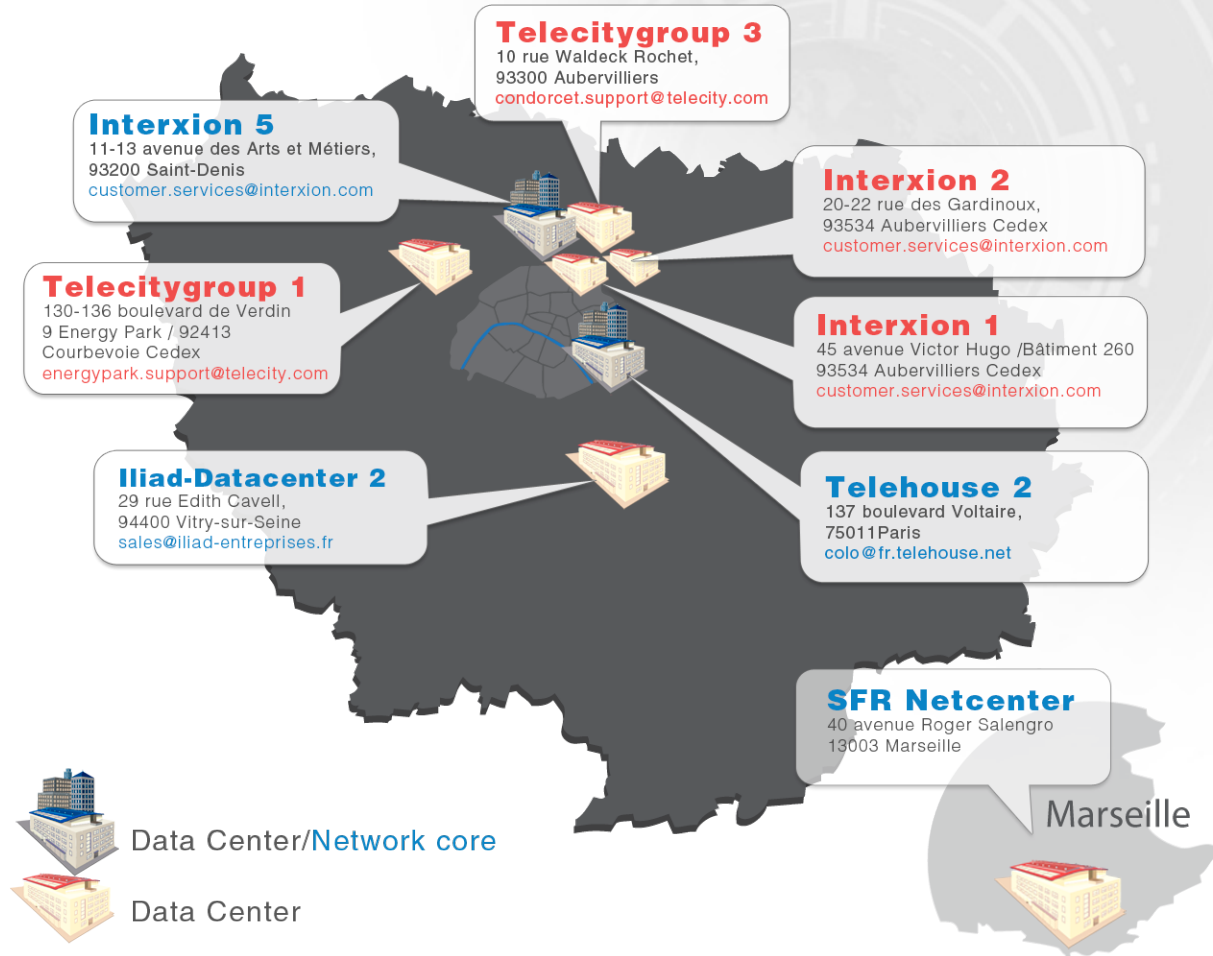
by Franck Simon – France-IX

AfPIF4 – Casablanca, 3rd of September 2013

Network

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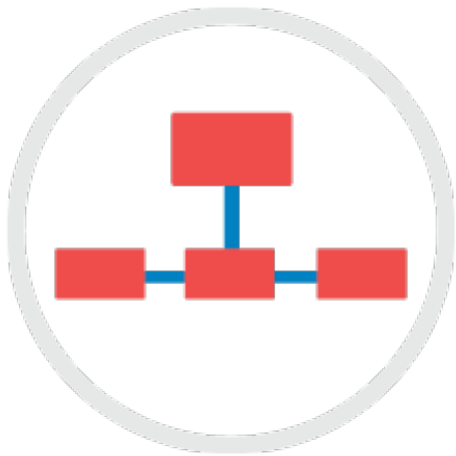- 7 in and around Paris
- 1 in Marseille

Dual-core architecture for redundancy and resiliency

Telecitygroup 3
10 rue Waldeck Rochet,
93300 Aubervilliers
condorcet.support@telecity.com

Interxion 5
11-13 avenue des Arts et Métiers,
93200 Saint-Denis
customer.services@interxion.com

Interxion 2
20-22 rue des Gardinoux,
93534 Aubervilliers Cedex
customer.services@interxion.com

Telecitygroup 1
130-136 boulevard de Verdin
9 Energy Park / 92413
Courbevoie Cedex
energypark.support@telecity.com

Interxion 1
45 avenue Victor Hugo /Bâtiment 260
93534 Aubervilliers Cedex
customer.services@interxion.com

Iliad-Datacenter 2
29 rue Edith Cavell,
94400 Vitry-sur-Seine
sales@iliad-entreprises.fr

Telehouse 2
137 boulevard Voltaire,
75011 Paris
colo@fr.telehouse.net

SFR Netcenter
40 avenue Roger Salengro
13003 Marseille

Marseille

Data Center/Network core

Data Center

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franceIX
Convergence hub

Various profiles of peers

Operators, carriers, Internet service providers

Online media

Emailing service providers

Cloud experts

Hosting companies

Content delivery networks

Big companies

E-commerce

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 trafic '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

	Unicast IPv4 & IPv6	Short paths	Routes servers	Private VLANs	Allow bursts of traffic	Access to Marseille	Reseller program
CDN	Yes	Yes	Yes			Yes	
ESP	Yes	Yes	Yes		Yes	Yes	
CLOUD EXPERTS	Yes	Yes	Yes			Yes & No	
OPERATORS	Yes	Yes	Yes & No	Yes		Yes	Yes & No

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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)

Case studies

Christian KAUFMANN
Director Network Architecture,

Company: Akamai
Profile: CDN (content delivery network)

Nicolas GAUDIN
Information Security Manager,

Company: Emailvision
Profile: ESP (Email Service Provider)

Jérôme DILOUYA
InterCloud founder,

Company: Intercloud
Profile: Cloud

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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Questions ?

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