

Internet Exchange Case Study



The Montreal Internet Exchange (QIX) delivers faster, higher-performing Internet access, while working towards a more robust Internet across all of Canada

On April 23, 2013 the Montreal Internet exchange launched with nodes at both 625 and 1250 Rene-Levesque Boulevard West and support from the Quebec Scientific Information Network (RISQ) and Cologix. QIX works to establish a new era in neutral interconnection in Quebec by enabling streamlined, settlement-free peering relationships to ultimately build a more robust Internet across Canada.

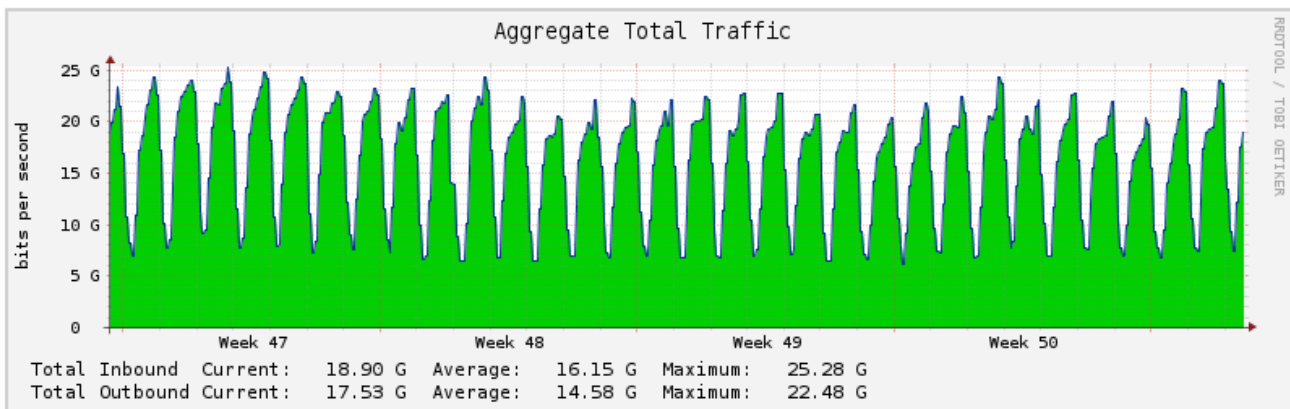


By exchanging traffic directly, there are fewer nodes (or routers and switches) for IP traffic to traverse, which creates a faster and more efficient path. QIX traffic is exchanged locally in Quebec, while non-QIX traffic that originates in Quebec is often routed to major networking hubs like Toronto or Chicago, then back to Quebec. This unnecessary routing ultimately diminishes network performance and the end-user experience while increasing latency, costs and risk.



“Just 18 months after launching QIX, the exchange has **broken through key milestones** to firmly establish itself as a sustainable and growing exchange. More than 40 members, exhibiting a healthy mix of ISPs, metro networks, content and hosting, have **deployed over 180 Gbps of capacity** into the exchange. We have blown past the traffic litmus test of 20 Gbps and are **poised for further growth.**”

– Sylvie LaPerriere, QIX Board of Directors Chair & Interconnection Relations at Google Inc.



Above: In weeks 47-50 of 2014, or Nov. 17-Dec. 14, QIX peering traffic peaked at 25+ gigabytes/second.

24 Network Neutral Data Centers Throughout North America

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Sales@cologix.com | 1.855.497.2537 | www.cologix.com





“The success thus far is a credit to the Internet community in Montreal and our partners at Cologix and RISQ, and demonstrates the value of interconnecting closer to the edge of the network.”

– Sylvie LaPerriere, QIX Board of Directors Chair & Interconnection Relations at Google Inc.

Beginning

- Core node in Cologix's 1250 René-Lévesque Boulevard data centre with a secondary node at 625 René-Lévesque Boulevard West
- Non-profit offering a more robust, higher-performing Internet in the Quebec province
- Reduced IP transit costs due to cost-free peering arrangements among QIX members
- Close proximity to the European cable landing stations in Halifax
- Improves performance & security through local multilateral & bilateral peering

Today

- ✓ 40+ unique peering networks
- ✓ Accelerates traffic flow & bandwidth availability on major Internet backbones
- ✓ Facilitates new peering relationships with low administrative burdens between service & content providers & private/public entities
- ✓ Overall reduced costs for independent ISPs
- ✓ Partnerships with Cologix, Google, Cogeco Data Services, Fibrenoire, Metro Optic, Groupe Tel-Tech Inc., Optic.ca, Canadian Internet Registration Authority, & RISQ

QIX Peering Participants

- | | | |
|---|----------------------------|--|
| • 3Men@Work Integrated Networks | • DALnet | • MTS Allstream |
| • Akamai | • Ecritel | • Netelligent Hosting Services |
| • Aventure en Excellence | • ElectronicBox | • Openface Internet |
| • B2B2C | • Fibrenoire | • Oricom Internet Inc. |
| • Beanfield Metroconnect | • GloboTech Communications | • OVH Infrastructures Inc. |
| • Bravo Telecom | • Host Logistic | • Packet Clearing House |
| • Cable Axion Digital Inc. | • Hurricane Electric | • Popmail Group |
| • Canadian Internet Registration Authority (CIRA) | • Hydro One Telecom | • Prodosec |
| • CBC/Radio-Canada | • Infra-Solutions | • QITX INC |
| • CIRA Measurement Lab Consortium (MLAB) | • IRISTEL | • RISQ (Quebec Scientific Information Network) |
| • Cogeco Cable | • ISP Telecom | • TekSavvy Solutions Inc. |
| • Cogeco Data Services | • Limelight Networks | • VIF Internet |
| • ColbaNet Inc. | • Metro Optic | • Zerofail |
| | • Microsoft Corporation | |
| | • Modulis | |

Source: <http://qix.ca/en/members/membership>