Connecting CDNs to IXPs - Costs

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Who we are….

- Global CDN and security company
  - 220.000 Servers deployed in 123 countries
  - 35 Tbps daily peaks

- Akamai is the first CDN to pass traffic at 110+ IX locations

Why do we join an IX

- Reducing costs
  - Lower transit costs for the IX and members (including us)
- Better website performance for peers
  - Lower latency
  - Higher throughput, important for HD and UHD Video
- Geographical coverage/capacity
- Encourage the provider ecosystem in an area

Costs at an IX in General

- CAPEX and OPEX for routers
- Port cost for the IX
- X-connect fees

Costs at an IX for Akamai

- CAPEX and OPEX for servers, routers and switches
- Colocation costs for the servers, routers and switches
- Cache-fill transit costs for the cluster

AANP-IX or the solution to the problem…

- How do we make decisions if we want to connect to an IX?
  - What would it cost us to serve from the IX vs from other alternatives?
  - What is the performance benefit?

- Options if the business case does not fly
  - Say NO and do not join?
  - Or find a creative solution!☺

- Possible Solutions for a mutual benefit
  - Cost reduction for x month or till y mbit/s
  - Help with our transit or Colocation requirements


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