

ARIN on the Road, Halifax

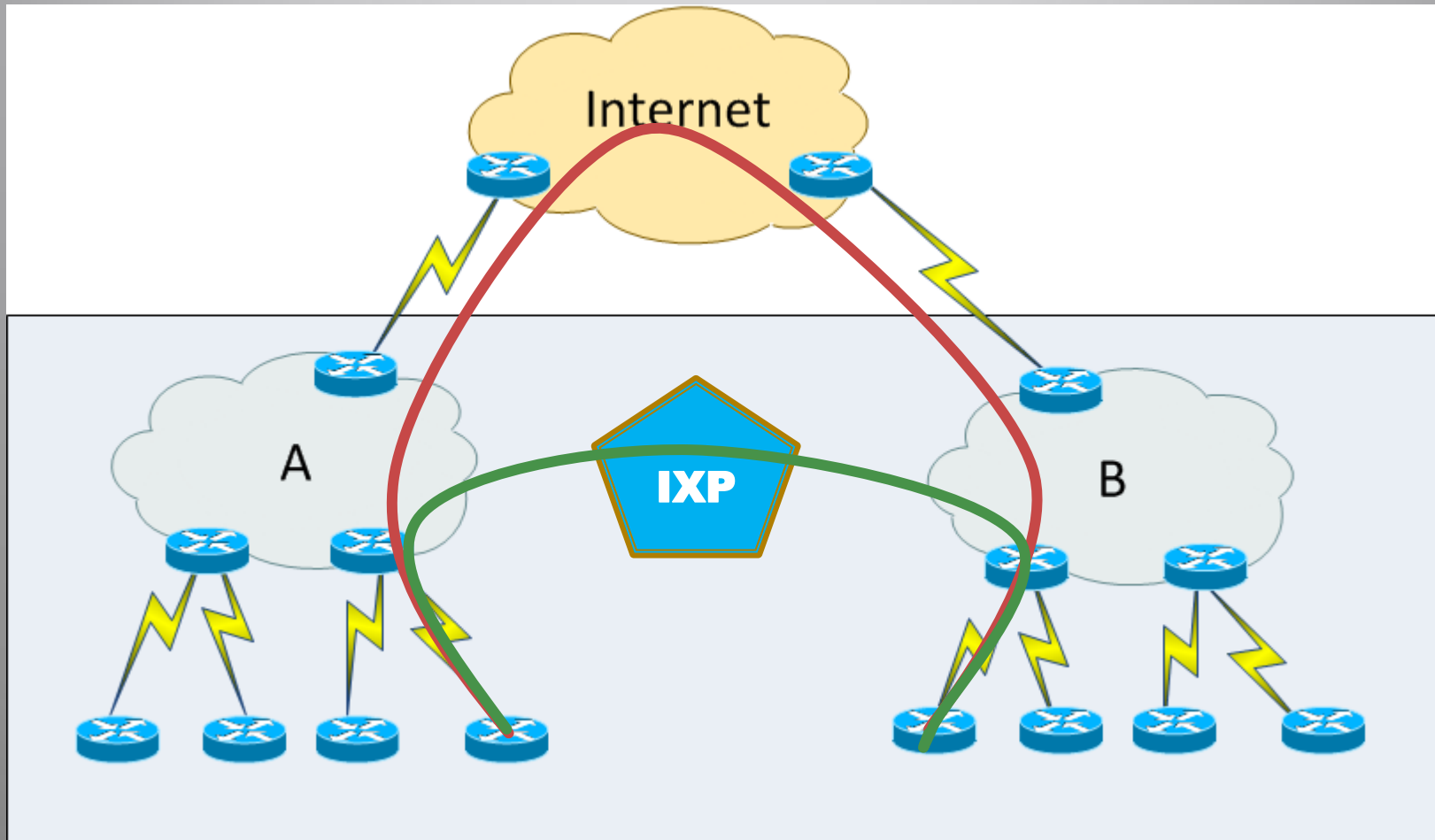
May 21, 2015

John Sherwood

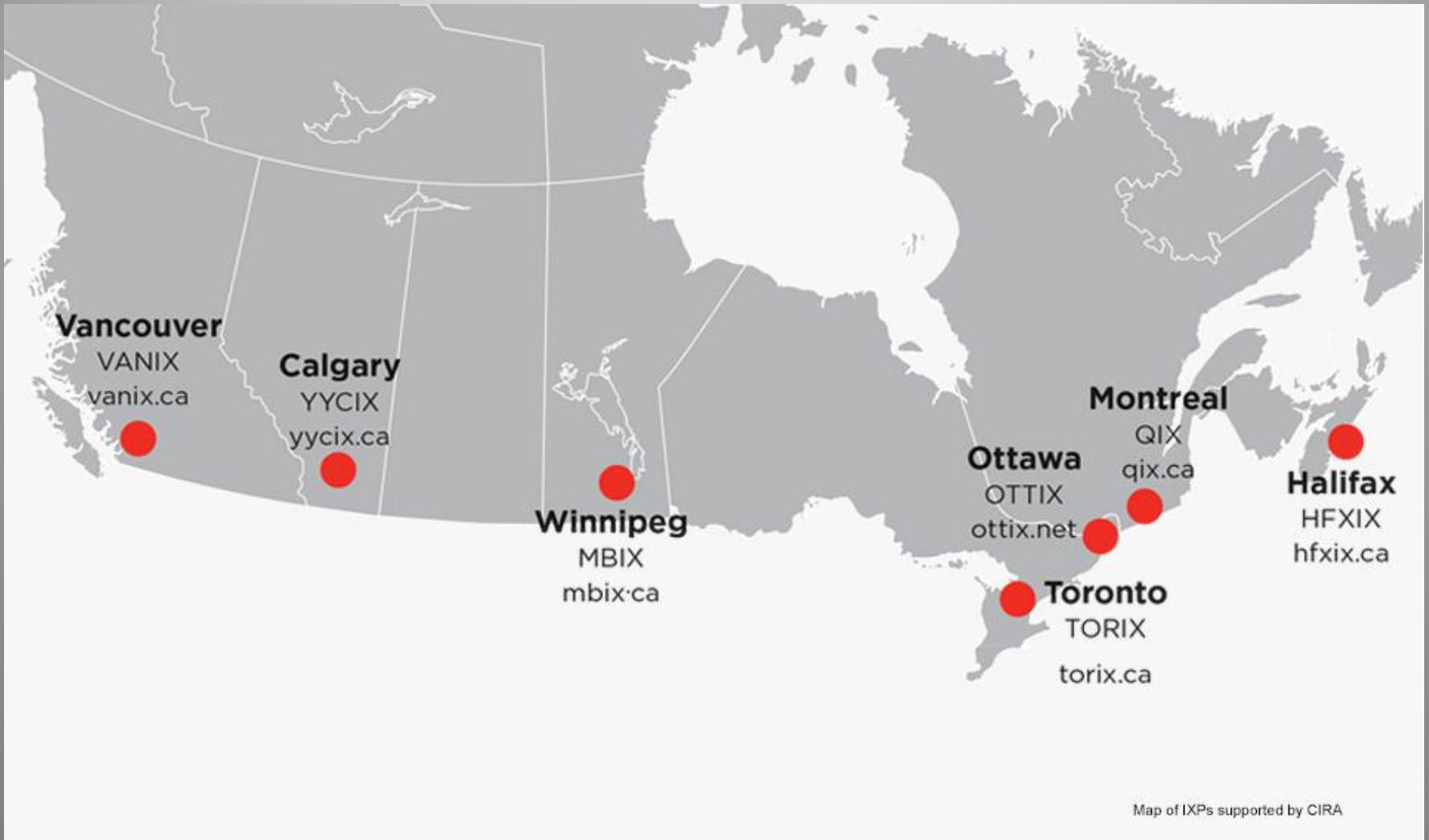
Halifax Internet Exchange



Why an Internet Exchange?



IXPs in Canada



Map of IXPs supported by CIRA

Halifax Internet Exchange



- HFXIX is a federally incorporated non-profit
- Governed by a Board of Directors
- Equipment located at Hibernia Atlantic co-lo,
Bayers Road

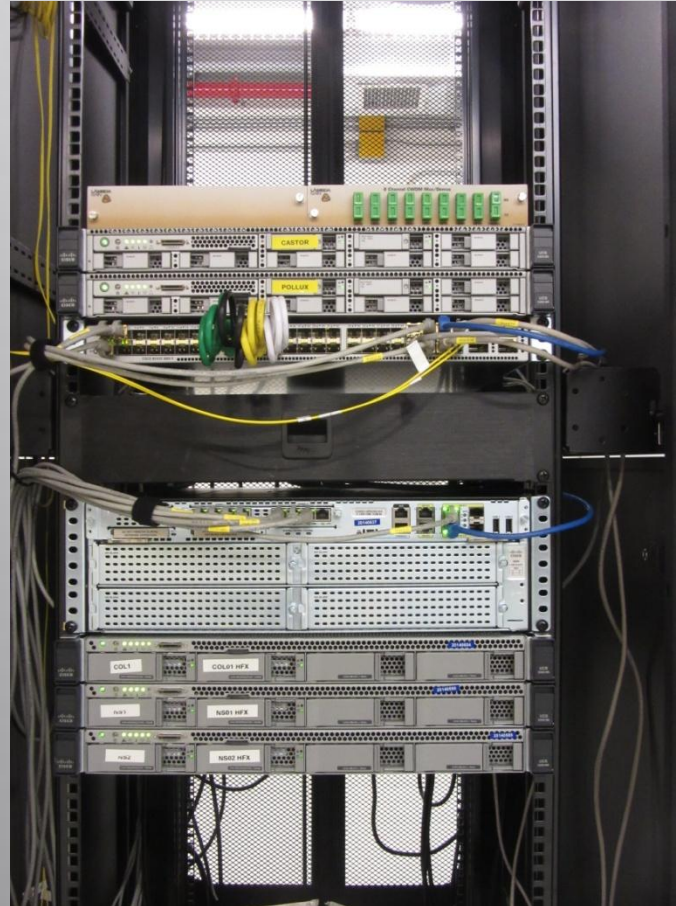
Technical Setup



- Core switch is Nexus 3064 (100/1G/10G/40G)
- Servers are Cisco C220 (x2) with mirrored drives
 - redundant BGP route servers (BIRD)
- Redundant power from UPS/diesel
- Co-lo is access controlled, monitored 24x7
- Co-lo has fibre feeds from all major and local carriers



Initial Configuration



Interconnects



- ARIN allocated space:
 - IPv4: 206.130.15.0/24
 - IPv6: 2001:504:37:10::/64
 - ASN: 13770
- BGP community controls:

Communities	
0:peer-as	Prevent announcement of prefix to AS peer-as
13770:peer-as	Announce prefix to AS peer-as
0:13770	Prevent announcement of prefix to all participants
13770:13770	Announce prefix to all participants (default action)

Clients



- Site went into production 3 weeks ago (May 1 2015)
- Initial clients & services:
 - CIRA
 - CANARIE
 - Universities (Cape Breton, St FX, Acadia)
 - N.S. Dept of Education K-12
 - Packet Clearing House (soon)
 - many others pending

Sponsors



Housed at Hibernia Atlantic co-lo	The logo for Hibernia Networks, featuring the word 'HIBERNIA' in a serif font above 'NETWORKS' in a smaller sans-serif font, with a stylized blue and green swoosh below.
First membership from ACORN-NS (the regional R&E network)	The logo for ACORN, featuring a stylized globe with a blue and green color scheme and the word 'ACORN' in a bold, sans-serif font below it.
Loaner equipment, discounts, advice from Cisco	The Cisco logo, featuring a stylized bridge icon above the word 'CISCO' in a bold, sans-serif font.
Equipment funding from CIRA	The logo for CIRA, featuring the letters 'CA' in a bold, sans-serif font, followed by a vertical line and the text 'Canadians Connected'.
Optics donated by optic.ca	The logo for optic.ca, featuring a stylized blue and green 'o' icon followed by the text 'optic.ca' in a sans-serif font.

Thank You



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