



# 2020 OPERATIONS COMMITTEE REPORT

(Tom Samplonius)



# Operations Review: New Committee

- Operations committee was formalized in late 2019
- Prior to this, the committee had informal membership and participation
- Operations committee members:
  - Chris Laffin - Automattic (WordPress); previously at Cogeco Peer 1
  - Erik Zhu - Consultant; previously at Uniserve
  - Maurice Zenarasa - Campus Support; previously Cogeco Peer 1



# Operations Review: New Platform

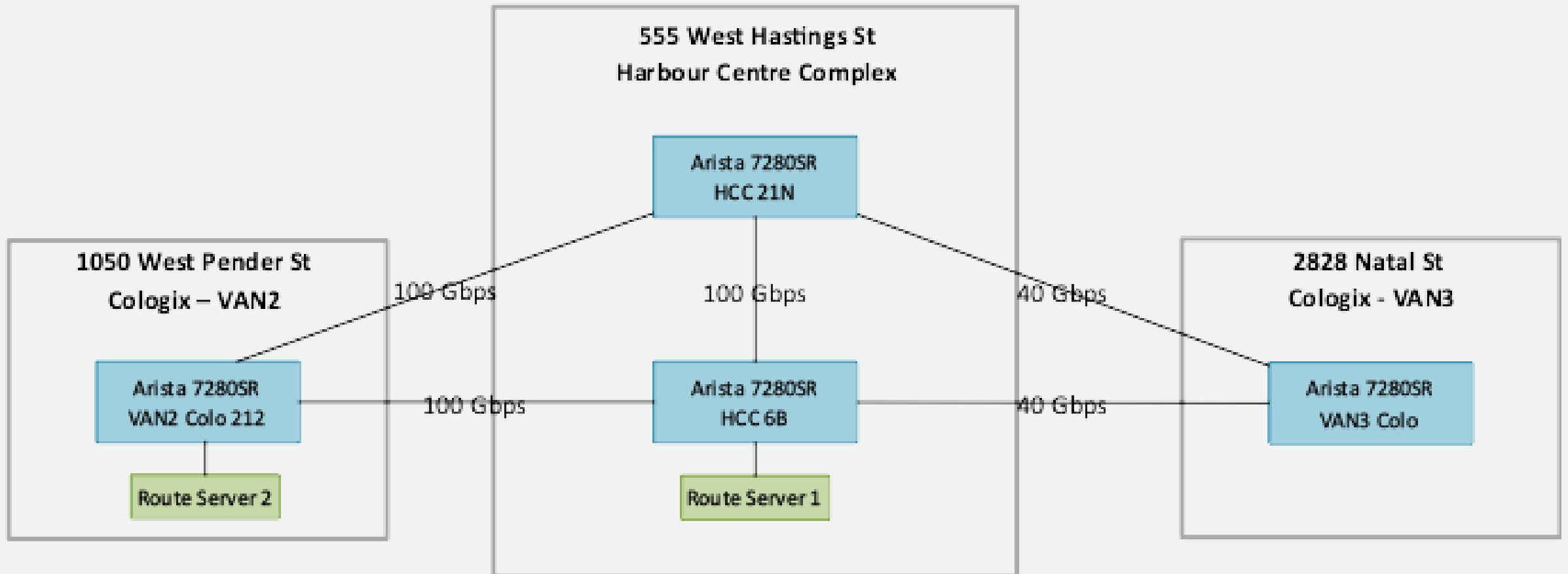
- VANIX selected, acquired and implemented a new switch platform
- The key requirements of the new platform were:
  - More ports: We were running out in 6B
  - Larger buffers: Microbursts were leading to packet drops. We needed enough buffer space for 4ms of traffic per port.
  - EVPN: EVPN moves MAC learning to the control plane, alleviating the bane of all IXes: unknown unicast floods.
  - 100 Gbps ports



# Operations Review: New Platform (cont'd)

- Status of the new platform:
  - Backbone connections have been transitioned over.
  - About half of the participants have been migrated.
  - New location Cologix VAN3 is live.
  - 100 Gbps ports are available.

# Operations Review: Platform Diagram





# Operations Review: Upcoming Work

- Complete migration of remaining participants to the new platform and remove old switches.
- Development work on potential virtual cross-connect integration to increase VANIX reach and reduce cross-connect costs.
- Integrate new OOB and management network.
- Improve route server diversity.



# Operations Review: Ports Added

- New participants added since May 1, 2019
  - AT&T Global Services
  - Alibaba Group Holding Ltd
  - TELUS Communications
  - Netskope Canada Inc
  - Fibrenoire Inc
  - Everythink Innovations
- Service Upgrades
  - Shaw Communications
  - Uniserve Communications
  - Sasktel (added new port)
  - Microsoft (upgraded existing port and added 3 new 10Gbps Ports)
  - TechFutures
- One participant ceased operations; no other disconnections this year



QUESTIONS?

