



2021 OPERATIONS COMMITTEE REPORT

(Tom Samplonius)



Operations Committee

- Operations committee members:

- Chris Laffin - Automattic
- Erik Zhu - SFU
- Maurice Zenarasa - Campus Support
- Chris Murray - VANIX director
- Tom Samplonius - VANIX director (committee chair since 2019)



Operations Review: 100G Ports

- VANIX connected the first 100G participant port Oct 2020.
- As of October 27, 2021, there are five 100G participant ports, with two more on a pending order.
- VANIX is projecting three more 100G participant ports in 2022.
- The new 100G ports are lifting traffic across the IX, and the growth in 100G will require some second (and third) 10G ports to be ordered as well.



Operations Review: Traffic Review

- Traffic has been oscillating for the past couple of years. Up for a couple of months, and then down for a couple of months. The oscillation was largely due to traffic grooming activity.
- With new participants and new 100G ports, we are now consistently exceeding 60G, and have exceeded 100G for the first time in October 2021.



Operations Review: Cross Connect Replacement

- Replacement cross-connects are required to migrate connections away from a legacy VANIX switch.
- Typical move-add-change activity has already resulted in the migration of 20% of affected connections.
- VANIX is gathering LOAs to order replacement cross-connects for the remainder.



Operations Review: Upcoming Work

- More 100G ports are needed, particularly at Harbour Centre, so we will be adding some new switches.
- Cologix VAN4 is expected to come on-line Q4, 2022.
- VANIX will be scaling the backbone to accommodate more traffic, and also more data centres.