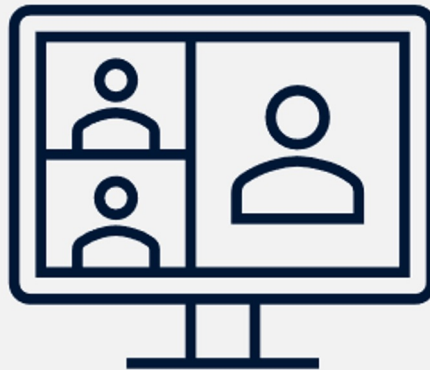


2022 ANNUAL MEETING

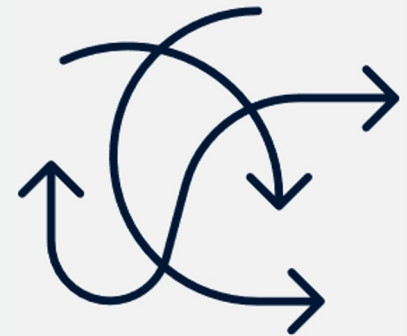
June 24, 2022

Verification of Quorum & Call to Order

- The Chair of the meeting verifies that there is a valid quorum for the meeting and, if so, can call the meeting to order.



1. Verification of quorum and call to order
2. Explain purpose, nature and process for AGM
3. Work through AGM agenda
4. Following the AGM are reports on progress, operations



Purpose of the AGM

Review past performance

Receive (not approve) the previous year's financial statements of VANIX

Ensure that a board of directors and public accountant acceptable to the members are in place going forward, according to law and the articles and by-laws of VANIX

- × Not a management meeting
- × Not a general discussion forum:
A session will be held immediately following the conclusion of the formal part of the AGM, for:
 - Discussion of VANIX activities
 - Report from the Operations Committee
 - Input from the VANIX Community

Who Can Attend the AGM?

- Members' Designated Member Representatives ("DMRs") or their Proxyholders
 - VANIX participants that have applied and been accepted as corporate members and remain in good standing by date of record
 - Members participate in member meetings, such as the AGM, through their DMRs, as recorded with the Corporation
 - DMRs who could not attend in person had the option to appoint proxyholders to act in their stead within an accepted timeline
- VANIX Directors
- VANIX Public Accountant
- VANIX Counsel
- Individuals from member and participant organizations, as well as individuals interested in the affairs of VANIX or peering in Greater Vancouver
- Anyone that the Chair of the meeting or the members admit to the meeting

Who Can Present, Discuss Motions & Vote?

- One designated individual (DMR or Proxyholder) from each member (must have signed in as such for the meeting)
- Directors, the public accountant and counsel can also take part in the discussions in order to discharge their duties

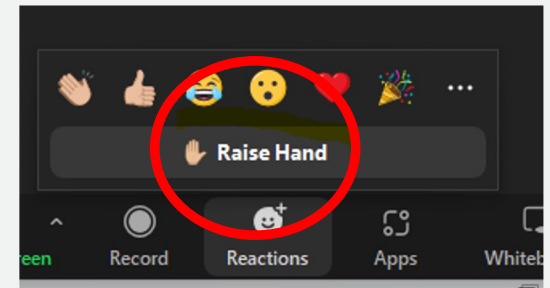
Who Can Present, Discuss Motions & Vote

	Move & Second	Discuss	Vote
One designated individual (DMR or Proxyholder)	Yes	Yes	Yes
Directors		Yes	
Public Accountant		Yes	
Counsel		Yes	
Invited Guests			

Working Through the Agenda

- Proposed motions will be shown – they were prepared ahead of time to help the members ensure that motions are clear, achieve desired purpose and facilitate the recording of accurate minutes of the meeting
- As each proposed motion is displayed, member representatives and proxyholders will be invited to move and second them
- Discussion can commence once a motion has been moved and seconded
- Voting will occur once discussion is complete or the question is called

- A DMR or proxyholder from each member must move each proposed motion and another must second it
please use the "raise hand" function in Zoom to move or second a motion.
- Discussion of the motion
please use the "raise hand" function in Zoom and the host will call your name to speak.
- The DMR or proxyholder votes
please use the "raise hand" function when voting for, against or withholding.
- Voting will take place by a Zoom “show of hands” unless a ballot is requested
- Motions will pass or fail based on a majority of votes cast (i.e., 50% plus one)



The meeting host will "lower hands" once the count is complete.

1. Call to Order (already occurred)
2. Adoption of agenda
3. Approval of minutes of the 2021 Annual Meeting
4. Chair's Report to the Members
5. Receipt of Review Engagement Financial Statements for 2021
(following treasurer and public accountant reports)
6. Appointment of Public Accountant
7. Change in number of Directors from eight to five and authorization of the Directors to change the number going forward (added)
8. Election of Directors
9. Ratification of Director and Officer Actions
10. Adjournment

PROPOSED RESOLUTION:

- **BE IT RESOLVED THAT** the agenda for the 2022 annual meeting of members of the Corporation is hereby approved as presented.

PROPOSED RESOLUTION:

- **BE IT RESOLVED THAT** the minutes of the 2021 annual meeting of members of the Corporation are hereby approved as presented.

Chair's Report to Members

Chair's Report to Members

- In 2022, we continued to focus on streamlining the business operations of the IX and creating additional value for peers
- Some of the past year's achievements include:
 - Hiring a new part-time Administrative Officer
 - Expanding and upgrading the network
 - Participating in industry events
 - Supporting our sponsors and fostering new relationships
 - Maintaining high up-time
 - Growing traffic levels
 - Providing port upgrade and cross-connect support at all sites

Chair's Report to Members

- 68 Participants with 81 Ports and 100Gbps traffic
- 33 Members
- A number of participants have upgraded to larger ports or purchased additional ports.
- No significant operational outages of the exchange

A **BIG** thank you for ongoing support to:

- Skyway West (rack space, power, cross-connects, Internet, and remote-hands support)
- Cologix (rack space, power and cross-connects and fibre connectivity)
- eStruxture (rack space, power and cross-connects)
- CIRA (ongoing support)
- Internet Society (ISOC) (sponsorship funding for one of the new Arista switches, licensing and support)
- Polaris Realty (Harbour Centre) (providing rack space, power and connectivity)
- Arista Networks (sponsorship for core network switches)
- Columbia Networks (sponsorship of a 100 Mbps Internet connection at VAN3 for use by VANIX for out-of-band management)

- Also, a **BIG** thank you to:
 - Kirsten Amadu for her work and serving as the Administrative Officer for VANIX
 - All of our volunteers, including my fellow directors and officers, various committee members and others, without whom we could not operate the exchange
- Existing Committees:
 - Operations Committee
 - Marketing Committee
 - Executive Committee
 - Finance & Audit Committee
 - Facilities Working Group

Receipt of 2021 Financial Statements (Julia Aspinall)

PROPOSED RESOLUTION

(VOTING MAY ONLY BE “FOR” OR “WITHHOLD”):

- **BE IT RESOLVED THAT** the 2021 financial statements of the Corporation and review engagement report of the public accountant thereon are hereby received by the voting members of the Corporation.
 - Julia Aspinall
 - Robert W. R. Bishop

Appointment of Public Accountant (Julia Aspinall)

PROPOSED RESOLUTION:

(VOTING MAY ONLY BE “FOR” OR “WITHHOLD”):

- **BE IT RESOLVED THAT** Robert W. R. Bishop, C.P.A. be and is hereby appointed as the public accountant of the Corporation to hold office until the close of the next annual meeting of the Corporation with the directors authorized to fix the remuneration of the public accountant.
 - Julia Aspinall

Jagrup Bains

Election of Directors (Jagrup Bains)

The following four directors' terms are expiring at the close of this meeting:

- Julia Aspinall
- Christopher Murray
- Tom Samplonius
- Darin Young

In addition, Kelly Pritchard has resigned from her Board position

Election of Directors (Jagrup Bains)

Two of the incumbents have chosen to decline re-election and two others have been nominated for re-election. They are:

- Tom Samplonius
- Darin Young

No other individuals were nominated.

Election of Directors (Jagrup Bains)

The reduction in nominations presents an opportunity to reduce the number of directors from eight to FIVE.

We are continuing to seek a candidate to serve as Director who also has accounting credentials and experience and can serve as Treasurer.

Election of Directors (Jagrup Bains)

Based on this situation, we are recommending to the members that they approve a reduction of the Board size from eight to FIVE and then authorize the Board of Directors to change that number going forward.

This will enable the Directors, once they find **suitable candidates**, to expand the Board size and appoint a suitably qualified Director as permanent Treasurer.

PROPOSED RESOLUTION:

- **BE IT RESOLVED THAT** the number of directors of the Corporation is hereby fixed at five and the Directors of the Corporation are authorized to fix the number of Directors on a going forward basis.

As noted, the following individuals have each been nominated to stand for election as directors at this year's annual meeting of members for two-year terms:

- Darin Young
- Tom Samplonius

Since there are two nominees for two positions, the candidates have effectively been elected by acclamation.

Specifically, ***Darin Young and Tom Samplonius*** have each been elected as director of the Corporation by acclamation to hold office for a term ending at the close of the 2024 annual meeting of members of the Corporation, subject to the by-laws of the Corporation.

PROPOSED RESOLUTION:

- BE IT RESOLVED THAT the following individuals be, and are hereby, nominated to hold office as directors of the Corporation, with each such nominee to hold office as a director until the close of 2024 meeting of members of the Corporation, subject to the provisions of the General By-laws of the Corporation:
 - Tom Samplonius
 - Darin Young

Thank you to Departing Directors

Thank you to the following directors leaving the board at the close of this meeting:

- Christopher Murray
- Julia Aspinall

2022 Board of Directors and Related Post-AGM Appointments

The Vancouver Internet Exchange Board of Directors is as follows (with anticipated officer appointments):

- Scott Jamieson (Chair & Marketing Committee Chair)
- Darin Young (Vice Chair & Treasurer)
- Jagrup Bains (Secretary)
- Tom Samplonius (Operations Committee Chair)
- Christopher Laffin

Ratification of Director and Officer Actions

PROPOSED RESOLUTION:

- **BE IT RESOLVED THAT** all contracts, acts and proceedings of the directors of the Corporation made since the 2021 annual meeting of members of the Corporation are approved and confirmed.

PROPOSED RESOLUTION:

- **BE IT RESOLVED THAT** the 2022 annual meeting of members of the Corporation is hereby adjourned.



Post Annual Meeting Topics

1. What we're doing as a Board
2. 2022 Operations Committee Report

Summary: 2022 – 2024 VANIX Strategic Plan

Vision

To be the global destination of choice for peering in British Columbia

Purpose

Interconnecting networks locally to deliver financial value, strong performance, and solid reliability for our community

Values

- ✓ Highly cost-effective
- ✓ Solution-oriented and participant-focused
- ✓ Flexible and creative
- ✓ Supportive of the Canadian Internet community



IX Operations – deliver high reliability and provide strong infrastructure



2022 OPERATIONS COMMITTEE REPORT

Tom Samplonius

- 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 2021: 6B Migration

- Moving switching infrastructure to a new rack so VANIX could access more space and dual redundant power. Plus, VANIX needed more ports in 6B.
- The installation of the new Arista switches was going on in parallel, so we could be active in the old and new racks at the same time.
- Installation of replacement cross-connects was very difficult. There were a lot of records issues. Several networks never knew where their cross-connects went.
- The old switch was removed in early 2022. There are two legacy cross-connects which still need to be re-routed, but it is otherwise complete.

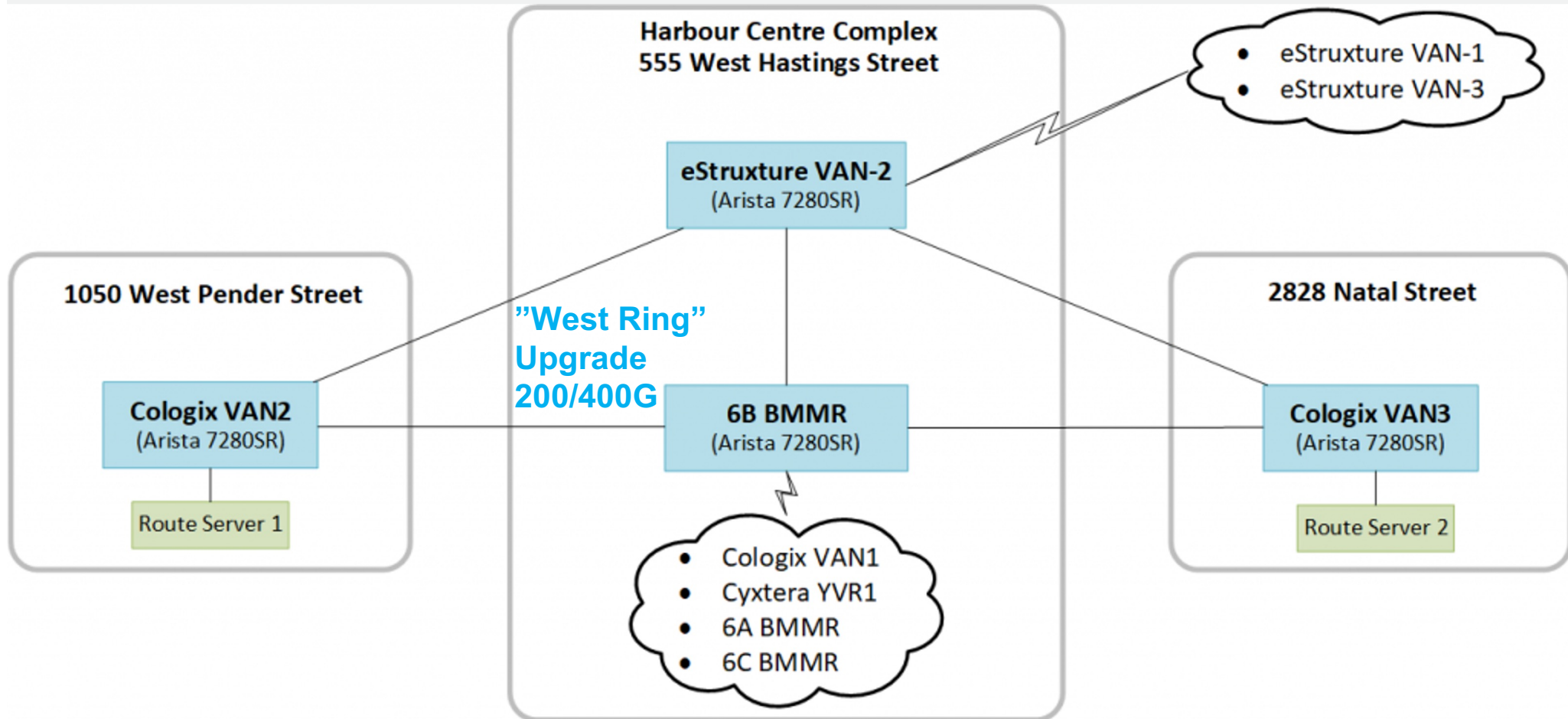
Operations 2021: Port Upgrades

- Not specifically a “project”
- But in late 2021, after several new content networks were connected and VANIX’s traffic profile changed significantly, we found that a some edge ports were experiencing congestion.
- We worked with three participants in the end of 2021 to add second 10G ports.
- All three choose to go with 10GBASE-BX bi-di transceivers, which allowed a faster upgrade, as there was no need to get additional cross-connects.
- We are also seeing that the upgrade progression will be from 2x10G to 1x100G, not to 3x10G or 4x10G. We expect that a number networks will hit the limits of 2x10G in 2022, and upgrade to 100G.

Operations 2022: Backbone Upgrade

- We plan to upgrade capacity on the west side VANIX ring. We've hit a 80% threshold a couple of times on that side of the network. VANIX tends to have "super peaks" a half a dozen times a month, where maintenance on PNIs or other IXes, which results in 10s of gigabits of additional traffic. We expect more of this, and we expect the peaks to get bigger.
- We also will be adding more edge 100G.

West Ring Upgrade



Operations 2022: New Datacentre(s)

- Cologix VAN4 is already partially operational, but won't be fully ready until the end of the year.
- There are other existing datacentres that we are in discussions to connect.
- We are also talking to major international networks about their eventual Vancouver connectivity, to ensure VANIX is in the right datacentres.
- VANIX expects to connect at least one new datacentre in the next 12 months.



Invitation for Community Feedback



**Thank you for attending and participating in the continuing
success of VANIX !**

**Those who attended the meeting will be entered
into a \$200 Shop Local Gift Card.
The winner will be contacted via email.**