

MICE UG 30 Minutes

Meeting called to order on Wednesday, January 9th, 2019 at 15:03 CST at the 511 Building cafeteria, Minneapolis, MN.

Roll Call

- Number of Voting Members in Attendance: 12
- Number of Non-Voting Participants in Attendance: 0
- Number of Pending Connections in Attendance: 1
- Number of Guests in Attendance: 0
- Percentage of Voting Members in Attendance: 13%, quorum attained.
- See roll call sheet for further information

Approval of Minutes

- A motion was made by Dean Bahls (CNS) to approve the minutes from UG 29, motion was seconded by Jeremy Lumby (MN VOIP), motion passed.

Reports

- Board of Governors Report
 - New members
 - Facebook
 - Global Net
 - Imon Communications
 - Ostra
 - Disconnections
 - Northstar Fiber, absorbed by merger by Arvig who is already a member
 - Pending connections
 - South Front Networks
 - Approved remote switch that is not yet connected
 - Insurance
 - Richard says no progress has been made since the last meeting.
 - Financial Report from Kayla Olsen, MICE Treasurer
 - Expense for 4th quarter of 2018
 - Annual ARIN registration for \$450
 - Port Fees
 - Some additional port fees were billed out before the end of the year. After pro-rating, \$740 was billed out.
 - The total billed in all of 2018 was \$49,168. We've received most of that, except for what was billed right at the end of 2018.
 - 2019 invoices will be out by the end of January.
 - If your organization requires a purchase order number, be sure to let Kayla know.
 - Checking account balance is \$42,600.
 - Annual maintenance on the switch is prepaid for 3 years.
 - There was a discussion about if port fees are sustainable for ongoing expenses, upgrades, maintenance, etc. It is possible that we need to increase port fees.

This also involved a discussion about getting a savings account for MICE funds, particularly to get interest.

- We do not have support on the Juniper hardware.
- Industry meetings
 - David Farmer discussed a report from the University of Pennsylvania (via NANOG) about "Lowering Legal Barriers to RPKI Adoption".
- Technical Committee
 - IRR filtering
 - About a half a dozen members were identified that were connected to one but not both route servers. Members of the technical committee are talking with those members to hopefully get them connecting to both. Then, we should be ready to convert one of the existing route servers to use IRR.
 - We should also provide some education for members.
 - Large BGP AS support
 - Will get support for this on the next BIRD upgrade.
 - Maybe add the upgrade into the IRR plan.
 - Arista 100G Line Card Replacement
 - SIX had a 100G line card go out on them, which they replaced. Then, they had a second 100G line card that was incrementing CRC errors. They are proactively replacing it due to heat issues.
 - With suspicions that our 100G line card might also suffer the same fate, Jeremy had asked Arista for a proactive replacement. Note that we have paid support on this hardware from Arista with a next business day SLA. Jeremy was initially told by Arista that a replacement line card was shipped, but was later informed that the shipment was delayed. He did not receive a tracking number. The replacement line card should have arrived on Tuesday, but did not. Jeremy is no longer getting any responses from the local Arista sales guys.
 - There is supposedly a work around which involves increasing the fan speed. SIX noticed the fan was running at a higher speed on theirs. So Jeremy has manually increased the fan speed on ours.
 - At this point, we have no idea when the card is coming, if at all.
 - There are currently 8 or 9 100G ports connected on that card.
 - There was a discussion about performing any deferred maintenance when the card is replaced, such as OS upgrades.
 - A question was raised about whether we should purchase spare line cards. Maybe. But, arguably that is why we are paying for support from Arista.
 - Another member who is mid-negotiation on purchasing new equipment from Arista emailed one of the local salesmen about this issue (during this discussion in the meeting). He received a response back within minutes. The local salesman told the member that we need to upgrade our software first. This is something we were already willing/planning to do.
 - Once the replacement line card is received, Jeremy will schedule maintenance 1-3 weeks out. He is familiar with and planning on blackholing BGP with an ACL before the maintenance.

- It was mentioned on the SIX mailing list (as a reminder) that the exchange IP space should not be in your AS's IGP.
 - David Farmer (University of Minnesota) says that sometimes there are good reasons to do this, but in general, you should not.
 - Steve Howard (Paul Bunyan Communications) says he advertises the MICE /24 within their network.
- There was a discussion about potentially having a server at MICE for CAF II speed tests. Previously, Chicago was the nearest approved destination. The FCC had recently added St. Paul, so the hope is that MICE would be an option. Steve Howard was interested in connecting an iPerf server to the exchange fabric. But if members are not supposed to have the IXP network in their IGP, they wouldn't be able to connect to it if it had an IXP IP address.
- Some other exchange have transit on a separate network and AS. There was not much interest in MICE doing that.

Old Business

New Business

- Bandwidth Graphs
 - There was a discussion about whether we should stop “double counting” the bandwidth on our Aggregate MICE Traffic Cacti graph?
 - We could not find a single example of another IX stacking their aggregate traffic like MICE does.
 - It was noted that the aggregate graph does separately display the Ingress and Egress traffic.
 - After a lengthy discussion, it was decided to take no action at this time.
- Next Meeting Date, Time & Location
 - UG31
 - Wednesday, March 20th, 2019, at 3:00pm
 - 511 Building cafeteria, Minneapolis, MN
 - UG32
 - Wednesday, July 17th, 2019, at 3:00pm15:00 (3
 - Multiple destinations were discussed, including:
 - Cedar Falls
 - Waterloo
 - Omaha
 - University of Iowa
 - Des Moines

Meeting adjourned

- Meeting adjourned on Wednesday, January 9th, 2019 at 16:39 CST by unanimous consent.