2019 Highlights

Edward McNair
NANOG Executive Director
Thank you

NANOG Staff + Program Committee + Board + Sponsors
For making this virtual meeting a reality
Inspiring, educating, and empowering our community

We made significant progress made in 2019 + beyond:

Building community and promoting openness

Highlights of 2019 Annual Report

NANOG Stories — Featuring our innovative community

NANOG TV — The latest Internet technologies + industry best practices, all in one place.
2019
North American Network Operators' Group
Annual Report
Through NANOG's first-ever annual report, we hope to provide even greater insight and transparency into our achievements and operations over the past year:

• NANOG Community
• Education
• Outreach
• Events
• Sponsorship
• Financials
INCLUSIVE, ADAPTABLE, AND FULL OF DIVERSITY

The ecosystem we’re building can handle nearly anything. With 86 nonprofit NOGs now in every major region of the world, NANOG was the first — and is still the largest.
WE MADE SIGNIFICANT PROGRESS IN 2019

Over the past year, the NANOG Staff, Board of Directors, and Committees successfully spearheaded improvements to some of the most critical aspects of our mission.
NORTH AMERICAN COMMUNITIES
WE’VE SERVED IN 2019

NANOG U Tour:
University of Illinois
Urbana-Champaign

NANOG STEM Tour
Montgomery, AL

NANOG 77
Austin, TX

NANOG 75
San Francisco, CA

ISOC Indigenous Connectivity Summit
Hilo, Hawaii

NANOG U Tour:
Purdue University

NANOG 76
Washington DC

CaribNOG 18
St. John’s, Antigua

CaribNOG 17
Bridgetown, Barbados
NANOG Education

Inspiring and educating the next generation of networking professionals
2019 NANOG College Immersion Program

The NANOG College Immersion Program (NCI) allows students to connect with Internet tech professionals to gain a competitive edge while they’re still in school, and provides college educators with complete funding to bring up to 5 students to a NANOG conference.

62 students from 4 universities attended NANOG conferences as part of the NCI program in 2019:

- University of Colorado Boulder
- Ball State University
- George Mason University
- Clarkson University

62 STUDENTS
4 UNIVERSITIES

— Sydney Pugh
University of Pennsylvania
NANOG STEM + Community Engagement

December 5-6 / Montgomery, Alabama

Two days of STEM-focused talks, lunch and learn sessions, and community meetings regarding industry trends and careers in Internet technologies.

Schools + Orgs Visited
- Montgomery Chamber of Commerce
- Tech MCM
- MGMIWEX
- Trenholm Air Force Base
- Auburn University at Montgomery
- Alabama State University
- Valiant Cross Academy
- Air Force University
- Air University Wargaming Institute
- Booker T. Washington Magnet High School
NANOG Outreach

Increasing access to our tools, resources, and programming
ISOC Indigenous Connectivity Summit
November 12-15 / Hilo, Hawaii

Two days of technical training centered on building the skills and capacity needed to launch a community network, followed by a conference focused on building partnerships, advocating regulatory changes, and sharing success stories of community networks across North America.

Nonprofit orgs within NANOG’s Internet ecosystem

Representatives from NANOG gathered at the annual meetings of three like-minded organizations in our community who are dedicated to supporting networking engineering, operations, and architecture.

RIPE 78: May 20-26, 2019
IETF 105: July 16-20, 2019
ICANN 66: November 5-8, 2019
NANOG Meetings
Gathering with the North American networking community
2019 NANOG MEETINGS, AT A GLANCE

Registration
- Non-Member: 562
- Member: 281
- Sponsor: 196
- New Member: 40
- Speaker: 27
- Student: 9
- NCI: 16
- Staff: 23
- Press: 1
- Total: 1,164

By Organization Type
- Data Centers
- Operators
- Nonprofit
- Service Providers
- Vendors
- Others

Membership Trend
- 2015: 663
- 2016: 638
- 2017: 653
- 2018: 678
- 2019: 715

2019 Meeting Attendance
- N75 | San Francisco - 1304
- N76 | Washington, DC - 971
- N77 | Austin - 1164

2019 Meeting Attendance by Gender
- NANOG 75 | San Francisco
  - Men: 755
  - Women: 94
  - Undeclared: 28
  - Other: 2

- NANOG 76 | Washington, DC
  - Men: 899
  - Women: 134
  - Undeclared: 37
  - Other: 3

- NANOG 77 | Austin
  - Men: 794
  - Women: 111
  - Undeclared: 32
  - Other: 2
NANOG 77 - Austin, TX

A community-wide gathering was held October 28-30, 2019, in the JW Marriott in Austin. The NANOG 77 Hackathon took place on October 27, 2019.

1,164 TOTAL ATTENDEES
364 MEMBER REGISTRATIONS
9 STUDENT REGISTRATIONS
37 SPEAKERS

NANOG 77 Organizational Demographics

- Data Center/Colocation - 11%
- IX Operator/Network Operator - 12.3%
- Non Profit (Gov’t/Education/Research/Organization/RIIR) - 11%
- Service - 8.6%
- Provider (Cloud/Internet/Content/Consulting) - 39%
- Vendor (Equipment/Software/WebServerHosting) - 22.8%
- Other - 7.3%

Organizations with greatest attendance

- Juniper - 29
- NTT - 29
- Verizon - 24
- Ciena - 19
- Nokia - 8
- ARIN - 16
- Facebook - 16

15 COLLEGE IMMERSION STUDENTS
153 WOMEN IN ATTENDANCE
30 COUNTRIES IN ATTENDANCE
THE NANOG PROGRAM IN 2019

25 MEMBERS
9 SUBCOMMITTEES
2 KEYNOTE SPEAKERS

1 WOMEN-IN-TECH SPEAKER
186 PRESENTATION SUBMISSIONS
93 ACCEPTED TALKS
NANOG Identity, Marketing, Social Media

Engaging new audiences and inspiring change
NANOG.ORG

Developed a digital marketing strategy to boost SEO, increase brand awareness, and drive further engagement on NANOG website + social media channels:

- 14 new features since June, 2019
- New content 2-4 times per month
- Ongoing updates to NANOG News feed
- Press release creation and dissemination

Users since launch in June, 2019

35,095
Total page views
125,955
Users per month
7,786
Page views per month
25,659
LinkedIn

"We have reached a somewhat sad moment when it is clear that the DNS has been entirely co-opted..." - Read Geoff Huston’s insightful response to the NANOG 77 "DNS Wars" keynote, given by Paul Visie. Up now, on CircleID.

1,123
NEW FOLLOWERS

2,300
TOTAL
FORMING PARTNERSHIPS TO EMPOWER AND INSPIRE

By working directly with like-minded companies, organizations, and educational institutions to help support NANOG’s tri-annual conferences, special events, outreach programs, and initiatives dedicated to education and professional development.

Over the past year, we introduced new tools + restructured the sponsorship program to create greater clarity and ensure seamless event-planning for our partners.

NANOG SPONSORSHIP IN 2019

$1,895,766
Dollars In Sponsorship Support + $3,401
Since 2018

5
Platinum

24
Beer 'N Gear

157
Sponsorship Partners

2
New Ways to Sponsor: Women + Diversity in Tech Lunch Network Lounge

16
New Sponsors
Committing to greater openness and transparency
You have to be able to imagine positive solutions and build them.

— Mitchell Baker
CEO, Mozilla Corp

COMMITTING TO GREATER OPENNESS AND TRANSPARENCY

NANOG is dedicated to providing an enjoyable and educational experience for everyone in our community, including the NANOG staff and volunteers.

Ethical transparency is also critical to our core values as a nonprofit organization. We believe that all members of our community should have a clear view of how NANOG operates, and the opportunity to play a role in our continued evolution.

Over the past year, we made significant improvements to accounting and human tool resources, including:

- Hiring a full-time staff member dedicated to accounting and HR who also serves as a liaison to the NANOG BoD to help ensure we remain open, transparent, and profitable.
- Creation of a unique Meeting Data Tool to help us forecast trends, better determine our organizational health, and provide greater transparency to our community.
FINANCIAL HIGHLIGHTS

These financials reflect the improved process, resulting in more practical, informative, yet easy to follow reports.

2019 Financial Highlights
- Sponsorship Income: $1,954,576
- Registration Income: $1,696,627
- For the last 2 years registration income represented 47% of Total Income
- Savings and Investments: $4,774,547
- Fidelity investments are conservative (mostly corporate bonds and dividend stocks)

2019 Revenue
- Total Revenues: $4,057,168
- Total Expenses: $3,639,110
- Change in Net Assets: $218,058
Amplifying the voices in our community

NANOG Stories + NANOG TV
NANOG Stories

Stories featuring our dynamic community: nanog.org/stories

Promoting diversity + access in Internet tech:
https://www.nanog.org/stories/diversity-and-access-internet-tech

Making the most of a virtual conference:
https://www.nanog.org/stories/ten-tips-virtual-conference

The 'cyber warrior' for Tribal broadband who's helping transform Indian Country:
https://nanog.org/stories/tribal-broadband-access
NANOG TV

Hours of curated presentations on the latest Internet technologies + industry best practices, all in one place:

**Top Talks:** The most-watched videos on NANOG's YouTube Channel.

**Working From Home:** A series of presentations + panels to keep you inspired.

**From the Archives:** Throwback to presentations from NANOG 16 and beyond.
Community Feedback

Our success depends on the collective expertise of the NANOG community to help direct and shape the organization in service of our mission.

We’d love to hear your insights, ideas, or concerns. Share yours at:

feedback@nanog.org
Thank you
NANOG Bylaw Change – Special Election (Board Terms)

Key Dates
- June 15 Announcement on Website and Member Mailing List
- July 20-22 Voting will be open
- July 23 Results will be announced
Program Review & Closing

Vincent Celindro
NANOG Program Committee Chair
N79 Program Review

● 20 Talks
  ○ 2 Keynotes - Tom Daly and Scott Bradner
  ○ 2 Panels - Networks’ response to Covid-19, and RPKI
  ○ 16 Talks - New technology, security, automation, and more
  ○ Return of BoFs at N79

● PC Reviewed 53 talks - some we will see at NANOG 80!
N79 Considerations

- Remote-only meeting
  - Abridged program – mitigating distractions
  - Keeping sessions to 60 min
  - Tutorials – 90-120 min?
  - Time-zone differences + total daily program length
NANOG - Remote Participation

- Remote participation component going forward
  - Both attendees and speakers will be able to participate remotely
    - Opens the door to wider audience, more speakers and content
    - 3 speakers gave presentations for N79 while being international
    - Format evolving, multiple tracks, what would you like to see
    - Return to in-person conferences -> hybrid mix

- Feedback & Surveys

- Submit your talk now for a future NANOG
Thanks to our NANOG 79 Virtual Host
Thanks to our Diamond, Platinum, and Gold Sponsors

- fastly
- AWS
- Ciena
- EQUINIX
- Kentik
- ORACLE Cloud Infrastructure
- QTS RICHMOND NAP
- Telstra
- VERISIGN
Thanks to our NANOG 79 Exhibitors
Special Thanks to

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- Board of Directors and Program Committee
- Staff: Valerie Wittkop, Dé Harvey, Shawn Winstead, Leigh Brooks, Claudia Bristol, and Brandi Herrera
- Contractors: Digitell, Inc.
- HGMP – Allison Renard, Kristen Perry, and Michelle Lee