



# VOTER GUIDE 2020

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**SLATE FOR:**  
ARIN BOARD OF TRUSTEES  
ARIN ADVISORY COUNCIL

**VOTING OPENS**  
3:00 PM EDT, 23 October

**VOTING CLOSES**  
5:00 PM EDT, 30 October

[www.arin.net/elections](http://www.arin.net/elections)

# TABLE OF CONTENTS



## **Board of Trustees**

Dan Alexander .....	4
Nancy Carter .....	6
Tina Morris .....	8



## **Advisory Council**

Andrew Dul .....	11
Gary Giesen .....	13
Anita Nikolich .....	14
Gus Reese .....	16
Leif Sawyer .....	17
Christian Tacit .....	19
Matthew Wilder .....	21

*Please note that ARIN publishes the candidate responses as they are submitted; they are not altered or edited in any way.*



21 September 2020

Dear ARIN Member,

In the extraordinary year that 2020 has been, we are very glad for the support and participation of our community.

In that spirit, I am writing to you in your capacity as the designated Voting Contact for your organization for the upcoming ARIN elections. As your organization's sole designated Voting Contact, you alone are able to cast a ballot on behalf of your organization during our annual elections.

Please mark your calendar noting that the online polls for the Board of Trustees and Advisory Council elections will open at 4:00 PM ET on Friday, 23 October and remain open until 5:00 PM ET on Friday, 30 October.

This year, ARIN seeks to fill two (2) of the six member-elected seats on our Board of Trustees. There are five (5) seats up for election from our 15-member ARIN Advisory Council.

In advance of voting, I encourage you to familiarize yourself with the candidates – specifically, their questionnaire responses in the Voter Guide and review the Statements of Support submitted on their behalf. Consider the issues that are most crucial to you, your organization, and the Internet, and weigh the information available on each of the candidates.

Voting is simple and requires just a few minutes of your time, but you will be fulfilling a vital community responsibility. Your ballot can be cast online from the comfort of your office, home, or mobile device anytime during the election timeframe. To access and cast your ballot, log in to your ARIN Online account and click on the "Vote Now" link located on your dashboard.

On behalf of ARIN and our community, thank you in advance for your time, support, and participation in these elections! Please reach out to [members@arin.net](mailto:members@arin.net) if you have questions, or require assistance.

Sincerely,

A handwritten signature in black ink, appearing to read "John Curran", written in a cursive style.

John Curran  
President and CEO  
American Registry for Internet Numbers (ARIN)

# BOARD OF TRUSTEES

## Dan Alexander Comcast



<https://www.linkedin.com/in/dan-alexander-3b71892/>

### Board Member Job Requirements:

**(a) Potential ARIN Board Members are expected to thoroughly review the Board Member Job Requirements found here as part of completing this questionnaire. Do you foresee any issues with fully executing those requirements and expectations? If yes, please provide specific details below.**

No issues

### Conflicts of Interest:

**(a) Please disclose any conflicts of interest you may have that would impact your ability to perform your duty as a member of the ARIN Board of Trustees.**

No conflicts

**(b) How do you propose to resolve any conflicts identified in (a)?**

N/A

### Education:

**(a) Please list any undergraduate degree(s) you received, the institution and the date issued.**

Southern Illinois University, BS Electronics Management, 2000

**(b) List any graduate degrees you have received, the institution and the date it was issued.**

N/A

**(c) List any relevant professional development (non-degree granting) education and the date completed.**

N/A

### Present Job:

**(a) Please provide the name of any company or organization you currently are employed by or receive direct or indirect compensation from. Please describe the business of each such entity and your current title, and the office address of the business.**

Principal Engineer for Comcast Cable.  
Comcast  
Comcast Technology Center  
1800 Arch St,  
Philadelphia, PA 19103

### Board Service:

**(a) Please identify any non-profit or for-profit corporate board(s) you currently serve on, how long you have served and what offices, if any you have held.**

Currently serving on the ARIN Board of Trustees elected in 2017 with term starting in January 2018

**(b) Similarly, please identify any non-profit or for-profit corporate board you served on in the past 5 years that are not included in answer to (a).**

N/A

**(c) Please describe how service under (a) or (b) may have prepared you for service to ARIN.**

My current term on the ARIN Board has provided direct experience with the management of the Board's Strategic Plan and working with the leadership team.

### Related Experience:

**(a) Do you have any other industry related experience that you feel is relevant to your serving? What did you find the most rewarding from those experiences?**

I am a user of ARIN's services through my employer. I have also served on the Advisory Council including serving as Chair of the AC. I'm familiar with most aspects of ARIN's business from the daily operations and the policy development process, to the budget and strategic plan.

### Required Biography:

**(a) Please provide here your full biographical information (attached separate resume or Curriculum Vitae is an acceptable substitution) including, if you choose, any data asked for in this questionnaire, and provide a brief description highlighting your experience relevant to the duties of the ARIN Board of Trustees. You may also optionally include additional web links to external websites (e.g. social media) though that may not be substituted for the aforementioned required biography.**

Link to CV

<https://www.linkedin.com/in/dan-alexander-3b71892/>

My experience with ARIN includes directly using their services as a member representative for eighteen years. Working to conserve IPv4 resources, advancing IPv6 usage, and advocating for a bottoms-up model of Internet governance. As an engineer for a large corporation and a previous small business owner, I strive to maintain a pragmatic, no-nonsense approach to problem solving. This experience extends beyond the ARIN region and includes working with other RIR. My work has also included involvement beyond the RIR participating on the ITU's IPv6 Working Group. Having also been elected to the ARIN Advisory Council, including serving as the Chair of the AC for three years, I have worked across a wide range of issues from very local to global in scope.

On the ARIN Board I chaired the Nomination Committee for two years working to improve the election process. I have also been on appointment, and compensation committees. As I complete my first term on the Board, I would like to continue to serve the community, and help develop future Trustees.

### ARIN's Challenges:

**(a) What do you believe to be ARIN's greatest challenges? How do you believe that your background and skills would help ARIN in addressing these challenges? (Maximum 250 words)**

A key challenge for ARIN is remaining relevant in a rapidly changing landscape. I feel this relevance is not limited to the RIR relationships with government and non-government organizations. This also includes ARIN's relevance with its customers and members.

Prioritizing the budget on value added services, communication, and coordination that free customers and member organizations up from having to

devote resources to the same efforts. Adjusting to new work environments, developing tools, reducing barriers to entry, and increasing data accuracy that best serve the Internet community are all areas I believe my background can benefit the organization.

### Board Discussion Topics:

**(a) As a member of the Board, what would your philosophy and goals be towards Board and Executive Management succession?**

Succession should extend beyond identifying who is next in line. It should also include a model to develop a deeper pool of talent that extends beyond a position's immediate replacement. By developing a deeper pool of talent, the organization can find options not identified by limiting efforts to next in line replacements.

Board succession can also be better served by increased visibility into the performance of the board. Providing details to the community and to the Nomination Committee about the decisions and actions of incumbent Board Members can increase transparency for well-informed elections.

**(b) Based upon your understanding of ARIN's current strategic plan, what opportunities or challenges do you foresee for the organization, which would influence the current or future strategic plans.**

I believe one key to ARIN's future is in its existing strategic plan to provide industry leading Internet number registry services by retiring support of older, unutilized services, updating and improving existing services, and creating simple, useable new services. To focus on making sure one's house is in order by providing a reliable, redundant infrastructure, and eliminating technical debt. These goals provide both challenges and opportunities in maintaining relevance in a rapidly changing landscape.

**(c) Understanding and managing organizational and environmental risk is an important responsibility of the Board. What do you see as potential risks to the organization and how should the Board best discharge its responsibilities regarding risk?**

One risk focused on during my term is the reduction of technical debt within the organization. Not limiting this concept to software, but also applying this focus to hardware and even services. Eliminating or upgrading hardware and software that is out of support or needing critical patches. Also, to look at legacy services that are requiring more effort to support than benefit being provided to members or users. These risks and others are prioritized and worked through the coordination of a risk register, strategic plan, and budgets so the organization has a clear direction forward.

# Nancy Carter

CANARIE



<https://twitter.com/1carter>

<http://www.nancycarter.ca>

Curriculum Vitae

[https://www.bigpulse.com/uf/1301854/85619\\_NEC%20resume%20ARIN%202020.pdf](https://www.bigpulse.com/uf/1301854/85619_NEC%20resume%20ARIN%202020.pdf)

## Board Member Job Requirements:

**(a) Potential ARIN Board Members are expected to thoroughly review the Board Member Job Requirements found here as part of completing this questionnaire. Do you foresee any issues with fully executing those requirements and expectations? If yes, please provide specific details below.**

No I do not foresee any issues. I believe that I have demonstrated my ability to execute those requirements and expectations during my tenure on the Board of Trustees.

## Conflicts of Interest:

**(a) Please disclose any conflicts of interest you may have that would impact your ability to perform your duty as a member of the ARIN Board of Trustees.**

None

**(b) How do you propose to resolve any conflicts identified in (a)?**

n/a

## Education:

**(a) Please list any undergraduate degree(s) you received, the institution and the date issued.**

Financial Management Program, Algonquin College & University of Ottawa, 1995  
Business Administration, Algonquin College, 1979

**(b) List any graduate degrees you have received, the institution and the date it was issued.**

Juris Doctor, Law and Technology specialty, University of Ottawa, 2012

**(c) List any relevant professional development (non-degree granting) education and the date completed.**

Institute of Corporate Directors, Not for Profit Program, 2019  
Chartered Professional Accountant (CPA), formerly CGA, 1997

## Present Job:

**(a) Please provide the name of any company or organization you currently are employed by or receive direct or indirect compensation from. Please describe the business of each such entity and your current title, and the office address of the business.**

CANARIE Inc - Canada's National Research and Education Network  
Chief Financial Officer (CFO)  
45 O'Connor Street, Suite 1150  
Ottawa, ON  
K1P 1A4  
Canada

## Board Service:

**(a) Please identify any non-profit or for-profit corporate board(s) you currently serve on, how long you have served and what offices, if any you have held.**

Trustee and Treasurer, ARIN Board of Trustees 2018-2020  
ARIN Finance Committee (Chair), 2018-2020  
ARIN Compensation Committee 2018-2020  
ARIN Governance Working Group (Chair), 2020  
ARIN Nomination Committee, 2018-2019  
CIRA Nomination committee, member 2018, Co-Chair 2019, Chair 2020  
Board Member and Treasurer, CCC#585 Condominium Corporation, 2011 to present

**(b) Similarly, please identify any non-profit or for-profit corporate board you served on in the past 5 years that are not included in answer to (a).**

Board Member and Treasurer, Internet Society Canada Chapter, 2013 to 2018

**(c) Please describe how service under (a) or (b) may have prepared you for service to ARIN.**

My current service as an ARIN Trustee has prepared me well for a second term on the Board of Trustees.

Working with the management and the rest of the Board, I have developed a stronger understanding of good governance practices that are directly relevant to ARIN's evolution, all of which I have brought to the ARIN Board table. I believe my professional background has also supported ARIN and the Board's ability to consider issues with a broader perspective and has been valuable in my role as Treasurer.

Since 2018, working with management, the Board has continued to evolve and enhance financial reporting and metrics to ARIN members, to review and update ARIN's strategic plan, and to develop comprehensive budgets in support of ARIN's operations. During my tenure, the Board has also created and launched the ARIN Community Grant Program; introduced a Leadership Development Program; undertaken a governance review; reviewed, and approved recommended fee changes; and of course, approved community supported changes to the NRPM.

#### **Related Experience:**

**(a) Do you have any other industry related experience that you feel is relevant to your serving? What did you find the most rewarding from those experiences?**

The skills and experience that are relevant to serving on the Board of Trustees of ARIN include being an executive at a not-for-profit with direct experience in leadership, finance, program delivery, legal and governance. I have worked in the not for profit, research and education space for 23 years, with considerable international participation. I am the Chief Financial Officer at CANARIE: CANARIE operates and evolves the national backbone of Canada's ultra-high-speed National Research and Education Network (NREN), connecting to 12 provincial and territorial partner networks. This world-class 100 gigabit per second network is critical infrastructure supporting today's data-intensive, globally collaborative research. As the executive responsible for supporting the CANARIE board, I also understand and ensure best practices and board responsibility, evolution, and accountability. In my CFO role at CANARIE, I participate in, and lead, several international initiatives, in support of the global Research and Education community. My direct experience and understanding of the global context are extremely relevant to serving ARIN as a member of the ARIN board of trustees. Through all these experiences, I have been fortunate to have met and befriended colleagues who have taught and mentored me in many ways. The lasting and enduring friendships with people working towards a common cause is a very rewarding benefit, and I feel fortunate and humbled to have had the opportunity to work with and learn from so many accomplished individuals.

#### **Required Biography:**

**(a) Please provide here your full biographical information (attached separate resume or Curricu-**

**lum Vitae is an acceptable substitution) including, if you choose, any data asked for in this questionnaire, and provide a brief description highlighting your experience relevant to the duties of the ARIN Board of Trustees. You may also optionally include additional web links to external websites (e.g. social media) though that may not be substituted for the aforementioned required biography.**

Please see attached Curriculum Vitae

#### **ARIN's Challenges:**

**(a) What do you believe to be ARIN's greatest challenges? How do you believe that your background and skills would help ARIN in addressing these challenges? (Maximum 250 words)**

The key challenge for any non-profit member-based organization is ongoing relevance to and engagement with the community it serves. The transition to IPv6 has been slow; yet it is essential for IPv6 to be more broadly used by the ARIN community. The need for promotion of IPv6 is a constant challenge that involves a massive technical and cultural change in the Internet community. As a key player in the research and education community, I can champion this cause. ARIN must continue to advocate through community outreach for greater IPv6 adoption. My experience on the ARIN Board will support ARIN, in the face of the COVID-19 pandemic, and cybersecurity challenges, to evolve and adapt to the post-pandemic world. It will also support ARIN's ability to support its community through a very tumultuous time.

#### **Board Discussion Topics:**

**(a) As a member of the Board, what would your philosophy and goals be towards Board and Executive Management succession?**

All organizations whether for-profit or not-for-profit need a comprehensive and well thought out succession plan for their board and their Senior/Executive Management teams. The ARIN Board is responsible for ensuring the evolution of both, and I consider that organizational continuity is paramount.

Any organization, including ARIN, must continually refine its succession plans at both the board and management levels. For ARIN, the Board has made significant progress on this at the organization level, and the ongoing Governance Review will address additional dimensions of Board succession planning. I believe that we need to ensure that succession planning is monitored and reviewed annually by the Board.

**(b) Based upon your understanding of ARIN's current strategic plan, what opportunities or challenges do you foresee for the organization, which would influence the current or future strategic plans.**

There are a number of opportunities for the organization to advance operational excellence. These include identifying and managing risks, improving reporting, strengthening processes, and continuing to create value for members. All of these are included in the current strategic plan.

**(c) Understanding and managing organizational and environmental risk is an important responsibility of the Board. What do you see as potential risks to the organization and how should the Board best discharge its responsibilities regarding risk?**

Some potential risks for ARIN include: managing the IPv6 transition effectively and efficiently; developing appropriate cybersecurity measures; maintaining relevance to its members and customers; and retaining highly qualified staff with the right skills to support ARIN's technical and organizational requirements in the current environment. The Board should be reviewing these, as well as other, risks and mitigation plans regularly, monitoring on-going risk trends, and supporting the evolution of a comprehensive Risk Registry.

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## Tina Morris

Amazon



<https://www.linkedin.com/in/tina-morris-81008915/>

### Board Member Job Requirements:

**(a) Potential ARIN Board Members are expected to thoroughly review the Board Member Job Requirements found here as part of completing this questionnaire. Do you foresee any issues with fully executing those requirements and expectations? If yes, please provide specific details below.**

I do not have any issues performing the Board Member Job Requirements.

### Conflicts of Interest:

**(a) Please disclose any conflicts of interest you may have that would impact your ability to perform your duty as a member of the ARIN Board of Trustees.**

I have no current conflicts of interest; however, I will note that I serve on the NANOG (North American Network Operators' Group) Board of Directors which hosts a joint meeting with ARIN each October and has a Cooperative Agreement in place with ARIN. In addition, I am currently employed by Amazon Web Services, and my team often works with ARIN Registry Services as a customer and active participant in the IPv4 Transfer Market.

**(b) How do you propose to resolve any conflicts identified in (a)?**

I do not anticipate any conflict; however, if there were a conflict I would recuse myself from discussions and/or voting as appropriate.

### Education:

**(a) Please list any undergraduate degree(s) you received, the institution and the date issued.**

I obtained a good portion of my college education while serving in the US Navy, therefore I attended numerous institutions local to the duty station where I was assigned. I received my Associate of Arts degree from the University of Maryland University College (Europe) in 2004 and I wrapped up my Bachelors of Applied Science degree in Technology Management from St. Petersburg College in 2008.

**(b) List any graduate degrees you have received, the institution and the date it was issued.**

I have no graduate degrees to list at this time.

**(c) List any relevant professional development (non-degree granting) education and the date completed.**

I have attended extensive Amazon training, in Hiring, Management, and Public Speaking over the last 3 years.

### Present Job:

**(a) Please provide the name of any company or organization you currently are employed by or receive direct or indirect compensation from. Please describe the business of each such entity and your current title, and the office address of the business.**

Amazon Web Services - Senior Technical Business Developer  
2121 8th Ave



**Board Service:**

**(a) Please identify any non-profit or for-profit corporate board(s) you currently serve on, how long you have served and what offices, if any you have held.**

NANOG Board of Directors (3 years) Vice Chair (Current)  
ARIN Advisory Council (7 years)  
\* (2 Years) Member  
\* (2 Years) Vice Chair  
\* (3 Years) Chair (Current)

**(b) Similarly, please identify any non-profit or for-profit corporate board you served on in the past 5 years that are not included in answer to (a).**

Women in Cable Technology Board of Directors - Florida Chapter (2 years)

**(c) Please describe how service under (a) or (b) may have prepared you for service to ARIN.**

I feel the work I have done on the NANOG Board of Directors closely aligns with the responsibility and role in which I would serve on the BoT. Including the following:

1. Meeting Challenges - NANOG is a 501c (3) educational nonprofit that holds three meetings a year that is attended by more than 1,000 people in person at each meeting. Covid-19 caused significant issues as we approached the June 2020 in person meeting. I evaluated the financial and public health risks, and pushed for a path forward where the organization was able to effectively transition to providing a virtual meeting while still serving its membership, meeting, and attendees.
2. Bylaw Changes - I led the amendment and updating of the bylaws based on my assessment of the risks faced by the organization. I proposed several by-law updates that were adopted by the membership and Board to better protect the organization.
3. Policy Changes - I spearheaded the organization's development of policies and procedures aimed at ensuring the organization is appropriately addressing issues of harassment.
4. Staff and Organization Management - During my tenure I have been actively engaged with key hiring decisions, evaluations, and budgeting as well as creating the organization's Strategic Plan. During the last 12 years, I have served several years on ARIN's Nomination Committee and Fellowship Committee, and recently the 2019 Grant Committee. I have also served on the Advisory Counsel for seven years of which five years have been either as the Vice Chair or Chair. Serving the ARIN community in these ways provides not only an in-depth perspective on the Policy Development Process (PDP), but also a unique perspective on the issues facing the

organization and customers as well as unparalleled institutional knowledge.

**Related Experience:**

**(a) Do you have any other industry related experience that you feel is relevant to your serving? What did you find the most rewarding from those experiences?**

I have the benefit of working for a global organization. This allows me to participate in many forums, including RIPE, APNIC, LACNIC, AFRINIC, ARIN, and NANOG. Seeing the ways different regions and organizations tackle various issues allows me to take a more holistic approach to problem solving as our packets must route the entire Internet not just North America. My greatest satisfaction comes when I can solve someone else's problem by making a key introduction or sharing knowledge.

**Required Biography:**

**(a) Please provide here your full biographical information (attached separate resume or Curriculum Vitae is an acceptable substitution) including, if you choose, any data asked for in this questionnaire, and provide a brief description highlighting your experience relevant to the duties of the ARIN Board of Trustees. You may also optionally include additional web links to external websites (e.g. social media) though that may not be substituted for the aforementioned required biography.**

My Linked in URL is <https://www.linkedin.com/in/tina-morris-81008915/>

Summary:

Current Roles

Amazon Web Services - Senior Technical Business Developer (Since June 2014)

NANOG Board of Directors - Vice Chair (Since Oct 2017)

ARIN Advisory Council - Chair (Since Jan 2013)  
Previous

BrightHouse Networks - Principal Engineer of IP Address Strategy

Time Warner Cable - Senior Network Engineer  
US Navy - Cryptologic Technician Maintenance

**ARIN's Challenges:**

**(a) What do you believe to be ARIN's greatest challenges? How do you believe that your background and skills would help ARIN in addressing these challenges? (Maximum 250 words)**

I believe ARIN has a few pressing challenges. RPKI adoption and the role of the RPA in limiting RPKI adoption rates in the region are of paramount importance. The Board needs to mitigate risk to the organization, but we need to consider alternatives to the RPA as our primary risk mitigation mechanism in order to allow RPKI adoption to increase.

The Board must also consider the impact the current fee structure has on IPv6 adoption rates. There is currently an effort to solve this problem via policy ARIN-2020-3: IPv6 Nano-Allocations but assigning smaller IPv6 allocations is not the ideal solution for this problem.

I bring a unique perspective to the Board. I have a technical background spending many years as a Network Engineer, as well as many years experience working on all aspects of IPv4, IPv6, ASNs, and the transfer market. My work in these fields brings me in contact with membership and staff of all RIRs and provides me unique insight into the impact we make not only in North America, but across the globe.

### **Board Discussion Topics:**

#### **(a) As a member of the Board, what would your philosophy and goals be towards Board and Executive Management succession?**

I believe succession planning is a critical ongoing discussion. I understand continuity of Board members brings stability to the organization, but that can be balanced with term limits as well as a skills-based selection process to create continuity, while ensuring the Board has the critical skill sets it needs to be successful.

#### **(b) Based upon your understanding of ARIN's current strategic plan, what opportunities or challenges do you foresee for the organization, which would influence the current or future strategic plans.**

As ARIN takes on more operational activities such as RPKI and the new IRR, it needs to transition from a primarily planning-focused organization to a 24-hour customer support model. This change is already in the Strategic Plan, but the operational challenges identified during the Covid-19 stay-at-home orders have highlighted the need to take a more strategic approach to achieving this goal that embraces a new paradigm where the inability to come into the office does not interfere with ARIN's ability to effectively provide services to its customers and members. I believe we can do better. It is time to reevaluate all processes and methodology and simplify where possible. ARIN needs to remove old processes that prevent progress and keep people tied to a desk.

#### **(c) Understanding and managing organizational and environmental risk is an important responsibility of the Board. What do you see as potential risks to the organization and how should the Board best discharge its responsibilities regarding risk?**

Covid-19 has shown us that we can't necessarily predict or prepare for all possible scenarios that may impact the organization or its ability to operate. The staff and Board have done an admirable job of maintaining services and pivoting from an in-person meeting to a virtual meeting with little warning. However, this is not a short-term crisis that can be solved via fire-fighting. There are some changes that must be made to sustain support for staff, volunteers, customers, and members as this situation continues. The Board can treat this not only as a crisis, but an opportunity to make permanent changes that can benefit the organization, its customers, and membership.

# ADVISORY COUNCIL

## Andrew Dul 8 Continents Networks LLC



<https://www.linkedin.com/in/andrewdul/>  
<https://ipaddressnews.com>

**Bearing in mind that you run and serve as an individual, rather than as representing an organization, please provide the name of any organizational affiliations.**

8 Continents Networks LLC

**Please provide a brief CV highlighting experience relevant to the duties of the ARIN Advisory Council.**

Andrew Dul is currently an independent systems & networking infrastructure consultant at 8 Continents Networks LLC and has been working in various Internet networking positions since 1996. Over the years, he has held various positions including roles at network service provider Internap and working on the Internet in the sky at Connexion by Boeing. During his time at The Boeing Company, he helped develop the global network that supported mobile pico cell demonstrations and the first commercial in-flight Internet service. After Boeing, Andrew served the Seattle based nationwide law firm, Perkins Coie, as their Systems and Network Architect. He also was a Lead Engineer at Cascadeo from 2010-2013 and was a senior member of the Cloud Engineering team at CrowdStrike from 2016-2018. Andrew has been involved with ARIN since 1999 helping to contribute to the development of global IP number resource policy. Andrew holds a Bachelors of Science in Electrical Engineering from the University of California, Davis and a Masters in Business Administration with a Leadership Formation specialization from Seattle

University, Albers School of Business and Economics.

**Please disclose any conflicts of interest you may have with doing your duty as a member of ARIN's Advisory Council. How do you propose to resolve such conflicts?**

I am not aware of any current conflicts that would preclude me from serving on the ARIN AC. If a conflict should occur, my first duty would be to appropriately disclose the conflict and then I would abstain from any specific actions where a conflict occurs.

**Describe any limitations on your ability to attend Advisory Council and Public Policy Meetings in person or to serve the entirety of a three-year term.**

I do not have any limitations at this time.

**Have you attended ARIN meetings or otherwise participated in ARIN procedures in the past? What did you find the most rewarding from those meetings or procedures? What suggestions for improvement might you have?**

I have been involved with and attended ARIN meetings and the public policy process for over 10 years. I enjoy interacting with fellow members of the Internet community to help move the development of the Internet forward. I feel privileged to have been able to work with various different members of the community to develop Internet Number Policy to benefit as many members of the Internet community as possible. As much as possible ARIN should be striving to increase the participation either in person or remotely at their meetings. The fellowship program has helped, but I believe we need additional substantive participation from the largest network operators.

**How do you think ARIN's function, scale, or role should change?**

ARIN's primary function is to manage IP number resources for the North American region. As the Internet changes, for example, additional usage of IPv6 and less usage of IPv4, ARIN may not need as many staff to perform this function and staffing should be adjusted accordingly. However, the Internet's evolution may also require new not yet foreseen coordination functions for Number Resources and related elements such as managing "WHOIS" or directory services. The ARIN communities input will be necessary to help ARIN's staff and board of trustees

to determine what level of engagement the community requires. Any additional functions should be considered in light of ARIN's overall mission.

**What differentiates you as a candidate or makes you uniquely suited to the post?**

I have been involved with ARIN for many years. I bring to the Advisory Council significant knowledge of ARIN's history, the development of the Number Resource Policy Manual, related policy changes, and the policy development process. I believe that this knowledge can be useful as the AC considers the problems that the ARIN community is currently facing.

**How do you separate your personal opinions from those of your organization and those of the community? What areas of policy, if any, need more attention and why?**

As an advisory council member we often have to wear many different 'hats.' While all of my affiliations and experiences inform my opinion, ARIN's policy development process gives each of the 'hats' a primary role in different areas. For example, the primary place to express my personal or organization's opinion is on the public policy mailing list or during a public policy meeting. When the Advisory Council formally meets or when I act as a policy shepherd my role shifts to be one where I primarily represent the Internet community and their needs.

The area of directory services is an often overlooked area which requires input and balancing the needs of many different groups including governments, law enforcement, network operators, and Internet users. The current policy around directory services has been fairly static while the Internet environment has changed significantly and I believe some attention to this function could be beneficial to the Internet community.

**What are your thoughts on the rights and responsibilities of legacy IP address holders?**

I personally believe that legacy IP address holders should contribute to ARIN as much as ARIN address holders. The ARIN board, however, has continued its long held practice of allowing legacy holders to remain as-is. Fortunately, we are continuing to see legacy address space move out of legacy status as excess legacy IPv4 addresses are transferred into organizations which are regular ARIN members.

**What are your thoughts on needs-based justification for the receipt of IP addresses?**

I believe it is helpful to separate the needs-based discussion for IP addresses between IPv4 and IPv6 addresses.

IPv4: IPv4 is a limited resource of which ARIN has depleted its free pool. As the free-pool was depleted the Internet community made a decision to allow the directed transfer of IPv4 addresses from organizations with excess to those organizations who require additional IPv4 addresses. This secondary-market for IPv4 addresses has facilitated the continued growth of the Internet and has freed up unused resources so they can be used by other organizations. Overall, I view the transfer market as a positive development of IPv4 address policy. I still believe there is value in applying low-level filter which requires organizations to be active network operators to receive IPv4 addresses. This operator requirement could be considered a form of a basic "needs-based" policy.

IPv6: As IPv6 is an abundant resource a rational way to distribute IPv6 addresses to organizations is on a needs-based schema where organizations state what resources they require to run their networks and those requests are then evaluated based on a 'formula' which the Internet community developed and has empowered ARIN to implement.

**What do you believe to be ARIN's greatest challenges?**

ARIN's greatest challenge is active engaging of the Internet community. Internet Number Resource management can be a 'not exciting' realm and it could be easy to overlook what the RIRs are doing. However, if ARIN loses touch with its members its policies and operational practices could diverge from what network operators and other interested parties need to operate and manage Internet networks.

**If you could improve any aspect of the ARIN AC, what would it be?**

The AC chair is currently chosen by the AC members in an nomination & election process that is somewhat awkward. I would like to see that process changed such that there is some way for those who would like perform the role of the chair to have the option to discuss with the whole AC their ideas and plans if they were to be elected as AC chair.

**The role of the Advisory Council is to advise the ARIN Board of Trustees on Internet number resource policy and related matters. Describe a similar experience you have had in such an advisory role.**

I currently serve as an AC member and am familiar with the role. I have also been involved in other working groups within organizations where I have previously worked where my role was to advise other executives on security policy issues and related matters.

# Gary Giesen

CentriLogic Inc.



<https://www.linkedin.com/in/ggiesen/>

**Bearing in mind that you run and serve as an individual, rather than as representing an organization, please provide the name of any organizational affiliations.**

CentriLogic

**Please provide a brief CV highlighting experience relevant to the duties of the ARIN Advisory Council.**

- Network Architect for CentriLogic, a cloud and managed network service provider providing private cloud, managed cloud, private network and Internet services
  - o Responsible for managing a network of 5 ASNs and spanning two continents
  - o Responsible for overall network architecture
  - o Last-level escalation
  - o Product development
- Former member of the Toronto Internet Exchange Board of Directors
  - o Developed Reserve Fund Policy
  - o Participated in transition from provincially-registered to federally-registered non-profit
  - o Participated in hiring of Executive Director to oversee day-to-day operations and achieve the Board's strategic goals
  - o Participated in the sponsorship of NANOG 65 in Montreal
- ARIN-2015-01 Policy Author

**Please disclose any conflicts of interest you may have with doing your duty as a member of ARIN's Advisory Council. How do you propose to resolve such conflicts?**

None

**Describe any limitations on your ability to attend Advisory Council and Public Policy Meetings in person or to serve the entirety of a three-year term.**

None. My participation is supported by my employer.

**Have you attended ARIN meetings or otherwise participated in ARIN procedures in the past? What did you find the most rewarding from those meetings or procedures? What suggestions for improvement might you have?**

Absolutely have attended past meetings. The most rewarding part is the lively discussion around policies (especially if you wrote them/contributed to them) that can have real impact in helping organizations meet their business goals.

**How do you think ARIN's function, scale, or role should change?**

ARIN does pretty well already, although I'm pleasantly surprised to see them revamp crusty services and provide other services such as RPKI. I'd also like to see them continue and expand their IPv6 advocacy, and as always ensure competent stewardship of value Internet number resources.

**What differentiates you as a candidate or makes you uniquely suited to the post?**

I've served in a variety of roles in organizations, large and small, and served in a number of positions. I bring a breadth of experience of the challenges organizations face as we endure this pandemic, amidst the backdrop of a slow transition to IPv6 and a rapid transition of the way we work and access services.

**How do you separate your personal opinions from those of your organization and those of the community? What areas of policy, if any, need more attention and why?**

I've often served in other roles where personal views or those of my employer have been at odds with the responsibility of the role I was in, but I like to think I've not let it affect my judgement and have always strived to do good for the community, and ensure I meet the standards of my fiduciary responsibility.

**What are your thoughts on the rights and responsibilities of legacy IP address holders?**

I believe legacy IP holders who have not already joined the ARIN community should do so to enjoy the benefits that membership has to offer. That being said, I understand there are those who won't or can't sign an LRSA (for a variety of reasons), and

as such can't access a number of ARIN services provided under it. I think the current model strikes a fair balance. As we transition to IPv6, where LRSAs don't apply, the friction around legacy address holders and LRSAs should dissipate.

**What are your thoughts on needs-based justification for the receipt of IP addresses?**

I absolutely agree, that as pressure mounts on the need for IPv4 address space, we ensure it's being redistributed to those who genuinely need it, and to prevent capture of the market by those who can afford to acquire virtually unlimited amounts of address space.

**What do you believe to be ARIN's greatest challenges?**

Ensuring the IPv4 transfer market remains robust and needs-based despite mounting pressure to remove recipient requirements. ARIN also faces a changes in getting enterprises, whom often have sufficient IPv4 address space for the foreseeable future, to adopt IPv6 to ensure those who don't have adequate IPv4 address space can continue doing business with the world.

**If you could improve any aspect of the ARIN AC, what would it be?**

I think the ARIN Advisory Council has been doing an admirable job of shepherding policy through the policy process, and I would be honoured to be a part of it if I were elected.

**The role of the Advisory Council is to advise the ARIN Board of Trustees on Internet number resource policy and related matters. Describe a similar experience you have had in such an advisory role.**

I've been an mentor to many junior engineers, as well as a member of the Board of Directors for the Toronto Internet Exchange Community. I also serve as Network Architect at my current employer, where I'm responsible for developing and enforcing good policy and practice, and stewardship of my company's resources.

I regularly advise our Senior Leadership Team on a range of topics, including but not limited to IP address acquisition and assignment policy.

I am also our company's primary representative to ARIN (as well as RIPE), and deal with all IP resource acquisition/transfers.

# Anita Nikolich

University of Illinois



<https://www.iit.edu/directory/people/anita-nikolich>

**Bearing in mind that you run and serve as an individual, rather than as representing an organization, please provide the name of any organizational affiliations.**

University of Illinois

ErisX

American Association for the Advancement of Science

**Please provide a brief CV highlighting experience relevant to the duties of the ARIN Advisory Council.**

I am a Research Professor in Computer Science at Illinois Institute of Technology (and will soon be moving to the University of Illinois). I'm also a security consultant to a cryptocurrency exchange, ErisX. I began my career in the military and government, doing network analysis as a cryptologist. After I got out, I worked at a large ISP running their security department. I spent some time in industry at a very large global insurance company (with offices in almost every country) as the head of global networking and security. I transitioned to the Research and Education (R&E) world, and ran infrastructure (network, servers, security, telecom) for The University of Chicago. I also interfaced with scientific cyberinfrastructure community, securing the networking for global processing of experiments such as the Large Hadron Collider and participating in network consortia such as the Midwest-focused Committee on Institutional Cooperation (CIC). I spent 4 years as a program officer at the National Science Foundation (NSF), funding security and networking infrastructure. And I've spent the last 2 years as a Research Professor at IIT. I am one of the leaders of the DEFCON AI Village and help run kids



white hat security events. I have a BA in History and an MS in Engineering. I am currently on the AC for the calendar year 2020.

**Please disclose any conflicts of interest you may have with doing your duty as a member of ARIN's Advisory Council. How do you propose to resolve such conflicts?**

I don't have any COIs.

**Describe any limitations on your ability to attend Advisory Council and Public Policy Meetings in person or to serve the entirety of a three-year term.**

No limitations. This is important work and I am fully committed to attending meetings and calls.

**Have you attended ARIN meetings or otherwise participated in ARIN procedures in the past? What did you find the most rewarding from those meetings or procedures? What suggestions for improvement might you have?**

I attended ARIN meetings in the distant past (~2000) when I was in an operational network role at a large ISP, but for the last several years have mostly followed via the mailing lists and via ARIN members who'd tell me about interesting developments or things to pay attention to that were gaining traction. I actively followed the ARIN meetings in recent years due to my interest in MANRS and RPKI.

I've thoroughly enjoyed learning about how the AC operates, and participating in some draft policy proposals. It is a somewhat steep learning curve, because ARIN is very formal (by design) and the AC is thoughtful in considering all aspects of wording. I really have appreciated this function a lot more.

**How do you think ARIN's function, scale, or role should change?**

I enjoy reading the APNIC blog, which, admittedly presents some thought provoking opinions mingled with APNIC official facts. I would love to see more of those type of articles on ARIN!

RIPE does some amazing work in measurement. I really like to see ARIN do more in the area of measurement, either in conjunction with NIST or universities or internally.

**What differentiates you as a candidate or makes you uniquely suited to the post?**

My career has spanned security and network operations (at an ISP, at a very large corporation, and at a large University with a hospital) and security and network research. My points of view are informed by work that spanned industry, government and research and education (R&E). In leadership positions, I've had to wrestle with huge amounts of legacy IP space and talk about uncomfortable issues like

address usage, think about IPv6 conversions, and try to encourage best practices like RPKI. In the R&E space, the community is highly collaborative, which means that one can keep an open mind and have a thoughtful discussion about the right thing to do vs purely commercial reasons. I think these broad experiences and ability to listen to various points of view and distill policy proposals helps in ARIN AC discussions.

**How do you separate your personal opinions from those of your organization and those of the community? What areas of policy, if any, need more attention and why?**

I think spending a lot of years in the R&E space has helped me hone my ability to not always have to see a particular outcome. If an outcome is at odds with my personal opinion, it's clearly an outcome that has been seen as valuable by the larger, smarter community.

I continue to believe RPKI needs more attention. There are so many moving parts, and things that can go awry, that there are no simple answers. While not a perfect solution, it is a solution and if the community is going more towards adopting it, ARIN needs to put more attention on it.

**What are your thoughts on the rights and responsibilities of legacy IP address holders?**

Legacy resource holders have the right to keep their space. I lean toward the view that the Internet is a public good. Since Legacy IP space is (relatively) scarce, I believe holders should treat their space as such and 'do the right thing' for space that's not being actively utilized, but in the end it's still theirs. I had worked for two organizations with enormous allocations, and this was a constant discussion.

**What are your thoughts on needs-based justification for the receipt of IP addresses?**

IP addresses should be used by operational networks. I think this is the primary justification for an allocation. There is a role to be had for educating organizations on block sizes and how to be judicious with space.

**What do you believe to be ARIN's greatest challenges?**

I think more people should be involved in ARIN policy. There is an active, vocal and dedicated cadre of people who are very invested in participating - my fear is what happens when many of these people retire or become less active!

**If you could improve any aspect of the ARIN AC, what would it be?**

The AC is highly structured by design. Some cross functional discussions with the ARIN Advisory Board

might be beneficial, but I can't think of much more to improve it!

**The role of the Advisory Council is to advise the ARIN Board of Trustees on Internet number resource policy and related matters. Describe a similar experience you have had in such an advisory role.**

My most recent role was as a Program Officer at the National Science Foundation (NSF). Our role as Program Officers are to recommend research to fund as well as some public policy direction around what categories of things to fund over the next 1-5 years. That input was provided to larger policy and funding bodies such as Congress or the Office of Science and Technology Policy (OSTP), so while we are arbiters of some decisions, the role is to ask questions and ensure that the research and science community is well represented.

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## Gus Reese

### Cogent Communications Inc



<https://www.linkedin.com/in/greese/>

**Bearing in mind that you run and serve as an individual, rather than as representing an organization, please provide the name of any organizational affiliations.**

Cogent Communications Holdings Inc.

**Please provide a brief CV highlighting experience relevant to the duties of the ARIN Advisory Council.**

I have been in my position of IP Administrator of Cogent for the past seven years. I oversee around 28 million ipv4 addresses. I have been allocating IPv4 resources to our customers since 2004 and I am familiar with the Number Resource Policy Manual as it pertains to service providers. Part of my responsibilities include working with other department heads on projects, bringing differing point of views together and compromising on the best path forward. I

will to help foster community consensus and bring a unique perspective to the Advisory Council.

**Please disclose any conflicts of interest you may have with doing your duty as a member of ARIN's Advisory Council. How do you propose to resolve such conflicts?**

I currently do not have any.

**Describe any limitations on your ability to attend Advisory Council and Public Policy Meetings in person or to serve the entirety of a three-year term.**

Currently no limitations.

**Have you attended ARIN meetings or otherwise participated in ARIN procedures in the past? What did you find the most rewarding from those meetings or procedures? What suggestions for improvement might you have?**

I have attended ARIN meetings virtually for the past few years. I was set to attend my first in person meeting when the covid-19 pandemic happened. This will be my first time participating in the community at this level.

**How do you think ARIN's function, scale, or role should change?**

Expanded training for new features such as RPKI, IRR functionality, dnssec, online training.

**What differentiates you as a candidate or makes you uniquely suited to the post?**

I have been working in the service provider side of the internet my entire career. For the last twenty years I have been allocating IP space to my customers and have a good sense of what they are using the resources for. I am working on changing the fact I have not been active in the ARIN community (aside from attending the meetings) and I can bring a different perspective to the AC without having any prior biases.

**How do you separate your personal opinions from those of your organization and those of the community? What areas of policy, if any, need more attention and why?**

I adhere to a strict separation between my views versus my companies views in terms of 'ownership' of IP resources. My view is that the entities who have been allocated resources from IANA, are but humble stewards of these resources and have no ownership rights over them despite early contract languages. These views are not shared by my organization however I do not let it influence what is doing best for my organization. The only area of policy I would like to see more attention paid to is the returning or reclamation of IP resources that are not in use and



have not been for 10+ years. I did speak to Cathy on this issue and I have thoughts I am still pulling together.

**What are your thoughts on the rights and responsibilities of legacy IP address holders?**

This is an area of contention among legacy vs. non-legacy holders of IPv4 resources. I do see value in having a signed LRSA on file as it allows expanded use of ARIN services such as RPKI and the new auth IRR functionality. I do recognize the services that ARIN provides to legacy holders at no cost. There needs to be a better dialogue between ARIN and holders of legacy services and potentially changes made to the LRSA to make sure both sides have limited rights to IP resources.

**What are your thoughts on needs-based justification for the receipt of IP addresses?**

I have been following ARIN's NRPM guidelines for over fifteen years allocating IPv4 space to our end users. I am a firm believer that any entity requesting IPv4 resources demonstrate need for the IP resources.

**What do you believe to be ARIN's greatest challenges?**

Better communication and involvement of it's members.

**If you could improve any aspect of the ARIN AC, what would it be?**

Being new to the world of the ARIN AC, I cannot render an opinion on the question. I am actively working on becoming more involved with ARIN to be able to give a better answer.

**The role of the Advisory Council is to advise the ARIN Board of Trustees on Internet number resource policy and related matters. Describe a similar experience you have had in such an advisory role.**

Being the IP Administrator for Cogent as well as a department head, I routinely work with other department heads on issues of new policies/products and provide our collective advice to senior management. I strive to offer advice that can be contrary to the stated goal as a counterpoint to stimulate thought on different ways of viewing a solution to the problem.

# Leif Sawyer

GCI Communications Corp.



<https://www.linkedin.com/in/leifsawyer/>

**Bearing in mind that you run and serve as an individual, rather than as representing an organization, please provide the name of any organizational affiliations.**

I am currently employed by GCI Communications Corp, based in Anchorage, Alaska. I have no other organizational affiliations at this time.

**Please provide a brief CV highlighting experience relevant to the duties of the ARIN Advisory Council.**

have been a member of the Advisory Council since my first term began in 2014. In 2017 I was appointed to the position of Vice-Chair, and continue in that position today.

**Please disclose any conflicts of interest you may have with doing your duty as a member of ARIN's Advisory Council. How do you propose to resolve such conflicts?**

I continue to have no conflicts-of-interest that could preclude me from performing my duties on the Advisory Council.

**Describe any limitations on your ability to attend Advisory Council and Public Policy Meetings in person or to serve the entirety of a three-year term.**

I am currently willing and able to serve and attend all AC teleconferences, remote work-sessions, on-boarding, and in-person policy meetings.

**Have you attended ARIN meetings or otherwise participated in ARIN procedures in the past? What did you find the most rewarding from those meetings or procedures? What suggestions for improvement might you have?**

I began attending ARIN meetings occasionally in 2007, more frequently beginning in 2012, and then without fail, whether in-person or remotely, since my election year of 2014.

One of the most rewarding things to come out of my involvement is seeing how the policy changes that we shepherd have positively impacted the community.

**How do you think ARIN's function, scale, or role should change?**

ARIN continues to provide the necessary functions for its RIR role, while evolving to meet the ever-changing security and operational requirements in the communications industry. There is a long-tail of support for IPv4, perhaps much longer than was realized only 5 years ago, and as such, ARIN's role will probably not change significantly within the next 5-10 years.

**What differentiates you as a candidate or makes you uniquely suited to the post?**

During my last appointment to the council, I shifted roles, from shepherding policies to the Vice Chair role. This position allowed me to work closely with the Chair and Staff, managing the policy development process with the other members. Finding my way in the Leadership path is not something I expected, but I have come to enjoy learning this aspect of the Advisory Council. While there are no guarantees that I would remain as the Vice Chair, or be elected to Chair, helping to provide continuity across the changing membership is my greatest responsibility.

**How do you separate your personal opinions from those of your organization and those of the community? What areas of policy, if any, need more attention and why?**

I try to keep my work and personal opinions separate by maintaining a very health work-life balance. After working with the same company for 25 years, knowing when to "turn off" the corporate self is critical to living in a lower-stress mindset. As to "how" I practice my relaxation, that comes from multiple methods: rock climbing, playing music, performing with the local theatre companies, or enjoying my role as a father of an 8-year-old.

**What are your thoughts on the rights and responsibilities of legacy IP address holders?**

While I am not a legacy address holder, I continue to be made aware of some of the challenges facing legacy holders during discussions with colleagues on the Advisory Council, and during hallway discussions and various conferences. I feel that at a minimum, it's important for Legacy IPv4 address holders to continue to be good netizens. From a resource standpoint, I would love to see holders of

large IPv4 space return some of their space, either via transfer market, and/or to ARIN or IANA directly, in order to benefit all netizens.

**What are your thoughts on needs-based justification for the receipt of IP addresses?**

Needs-based justification continues to be an important factor in the receipt of IPv4 addresses whether by wait-list or the transfer market. IPv6 still requires some level of needs-based justification, however the scope is entirely different.

**What do you believe to be ARIN's greatest challenges?**

One of ARIN's greatest challenges will be maintaining engagement throughout the long tail of IPv4 turn-down, and the associated policy work that relates to the changing landscape. For example, the Advisory Council working groups are already looking at major policy clean-up work, but that is not expected to be a short-term goal. The outcome of it will allow for ARIN staff to more accurately follow the communities intent as written. What still needs to be addressed is how to address potential waning engagement during that process, to ensure that there is a large enough sample of voices.

**If you could improve any aspect of the ARIN AC, what would it be?**

The Advisory Council has become a more diverse group of individuals in the past few years than ever before. I don't want to change a thing - only provide the opportunity for increase cohesiveness and growth.

**The role of the Advisory Council is to advise the ARIN Board of Trustees on Internet number resource policy and related matters. Describe a similar experience you have had in such an advisory role.**

As a standing member of the Advisory Council, I have had multiple opportunities to provide advice to the Board of Trustees- as written policy that I have shepherded, as a voting member of the A.C., and in personal one-on-one discussions. My very first opportunity was when I joined a group of members speaking at the microphone at an ARIN policy meeting, discussing the need for the 100.64/10 IPv6 transition space- this experience was fruitful in two ways: the policy was adopted, and my journey to become a member of the A.C. began.

# Christian Tacit

## Tacit Law



**Bearing in mind that you run and serve as an individual, rather than as representing an organization, please provide the name of any organizational affiliations.**

I am the founder and sole proprietor of Tacit Law, a law firm based in Ottawa, Ontario, Canada, with a practice focus on information and communications technology matters and a number of other areas. Tacit Law does not hold any numbering resources. I currently serve as a director and chair of the board of National Capital Internet Exchange o/a Ottawa-Gatineau Internet Exchange ("OGIX"), an Internet exchange operating in Canada's National Capital Region. I also currently serve as a director and secretary of Vancouver Internet Exchange ("VANIX"), an Internet exchange operating in the lower mainland of British Columbia, Canada. OGIX and VANIX both hold numbering resources required for their operations as Internet exchanges.

**Please provide a brief CV highlighting experience relevant to the duties of the ARIN Advisory Council.**

My educational background includes earning electrical engineering, law and graduate business degrees. I am also a licensed professional engineer (1983, Ontario), a member of the Law Societies of Ontario (1989), Alberta (2005), Nunavut (2009), the Northwest Territories (2009) and British Columbia (2018), as well as a registered Canadian Trade-Mark Agent (1991).

My professional experience includes 39 years in the technology and communications fields, including over 31 years as a lawyer and consultant in these industries. During this time, I have had a considerable impact on the development of Canadian communications and Internet, law and policy. A significant focus of my career has been the promotion of competition, dynamic change and growth in the communications, Internet and technology sectors. I also have over 26 years of

experience in representing and working with not-for-profit organizations.

Major highlights of my career include holding engineering and management positions with two large telecommunications companies, holding a senior executive role in a publicly-traded company, being a partner in a law firm in which I headed two practice groups and was the firm's representative on an association involving a number of Canadian and US law firms, as well as founding and managing my own boutique law firm. Articles that I have authored and co-authored have been published and I have also lectured in university and community college settings. I also have a significant level of governance experience, having served as a director and officer of a number of not-for-profit and business corporations.

One of my particular strengths is forging consensus within industry associations with regard to policy issues. In addition to providing legal advice, I also have a reputation as a sound business adviser and strategic thinker. Throughout my professional career and volunteering activities in the commercial and not-for-profit sectors, I have continuously emphasized the application and development of good corporate governance principles, management best practices, technically sound policy proposals and the importance of the human dimension in addressing technical and business issues.

I believe that this background and my demonstrated experience on the ARIN Advisory Council, on which I have now served for nearly six years, make me very well suited to continue contributing to the ARIN policy development process as an Advisory Council member.

**Please disclose any conflicts of interest you may have with doing your duty as a member of ARIN's Advisory Council. How do you propose to resolve such conflicts?**

There is no conflict of interest that inherently disqualifies me from being a candidate for the ARIN Advisory Council pursuant to the Nomination and Appointment Conflict of Interest List approved by the Board of Trustees of ARIN.

As already noted, I am a director and officer of OGIX and VANIX, which are both Canadian not-for-profit organizations. I also represent a variety of clients in the Internet space. I do not believe that any organizations with which I am currently involved or clients that I represent will give rise to any conflict of interest. In the highly unlikely event that a potential or actual conflict to develop with respect to a specific issue, I would recuse myself from any Advisory Council discussion of the issue or related voting to which the conflict relates.

**Describe any limitations on your ability to attend Advisory Council and Public Policy Meetings in person or to serve the entirety of a three-year term.**

Subject to considerations relating to the Current Covid-19 pandemic, there are no inherent limitations on my ability to attend Advisory Council and Public Policy Meetings or to serve the entirety of a three-year term.

**Have you attended ARIN meetings or otherwise participated in ARIN procedures in the past? What did you find the most rewarding from those meetings or procedures? What suggestions for improvement might you have?**

I have been attending various ARIN Public Policy Meetings since ARIN XXVI held in Atlanta, Georgia, and have attended every ARIN Public Policy Meeting since being elected to the Advisory Council. I have participated in numerous policy discussions and procedures during that time. Since becoming a member of the ARIN Advisory Council, I have also authored and shepherded a number of numbering policies.

The most rewarding aspect of my participation in ARIN continues to be seeing the collective knowledge and wisdom of the community expressed through incremental improvements to numbering policy as a result of the individual contributions of community members and corresponding community discussion.

During the time that I have been attending ARIN Public Policy Meetings, I have found the meetings to be run very efficiently and effectively, including the most recent ARIN meeting which had to be held online as a result of the Covid-19 pandemic. I do not see the need for any significant changes at this time.

**How do you think ARIN's function, scale, or role should change?**

I do not see ARIN's core function (i.e., as an RIR) changing soon. I also do not see ARIN's scale changing soon given the significant activity taking place in the transfer market, which may continue for a number of years until IPv6 deployment becomes ubiquitous in the ARIN region. However, once that does occur and transfer activity subsides, it may be the case that ARIN's scale will change, depending on the needs to the ARIN community at that time. IPv4 exhaustion has led to ARIN's role shifting from predominantly approving allocations/assignments to predominantly approving transfers, while also managing the IPv4 waitlist and maintaining a vital focus on directory accuracy and fraud prevention. ARIN has also been doing a lot of critical work on improving routing security and delivering services more efficiently and in a more user-friendly manner to the community. These are important objectives that should, in my view, continue to be pursued.

**What differentiates you as a candidate or makes you uniquely suited to the post?**

The combination of educational qualifications and experience as an electrical engineer, business person and lawyer that I possess has equipped me with the skills required to assess policy proposals from a holistic, interdisciplinary perspective and to be very precise in any review of the wording of such proposals. My extensive professional experience has also equipped me with the interpersonal and consensus building skills that are essential to shepherding policy proposals and dealing with the technical, practical and human elements of policy development processes. I have also spent quite a few years as part of the ARIN community and six of them as an Advisory Council member, all of which has given me increasing insight into how to apply myself as an Advisory Council member.

**How do you separate your personal opinions from those of your organization and those of the community? What areas of policy, if any, need more attention and why?**

As a lawyer, I have had extensive training and practice separating my own views from those of organizations I represent or with which I am affiliated. Accordingly, I do not see this as being an issue insofar as my participation on the Advisory Council is concerned. As the needs to the community shift from less emphasis on IPv4 to a greater emphasis on IPv6, I see a need for policy streamlining and related simplification of the ARIN Number Resource Policy Manual for the benefit of the community, something on which I have already been actively working this year. I also see an ongoing need for an increasing emphasis on directory accuracy and greater routing security.

**What are your thoughts on the rights and responsibilities of legacy IP address holders?**

I think that the rights and responsibilities of legacy IP holders as currently described on the ARIN website (<https://www.arin.net/resources/legacy/services.html>) continue to be appropriate at this time.

**What are your thoughts on needs-based justification for the receipt of IP addresses?**

Although ARIN is a private corporation, its role in distributing numbering resources equitably throughout its serving territory is a function that serves society as a whole in that territory. Accordingly, needs-based justification for the receipt of IP addresses continues to be generally appropriate. **What do you believe to be ARIN's greatest challenges?**

In my view, ARIN's greatest challenges are: (1) to strike an appropriate balance among needs-based transfer policy, preventing fraud, maintaining directory accuracy and doing all of that in an environment that is sensitive to the different approaches to transfer policy that exist among the five RIRs while

taking advantage of harmonization where possible; (2) a continuation of extensive simplification of the NRPM given the nature of the PDP which tends to promote change in small and successive increments; and (3) adapting to new scale and role requirements driven by community needs.

**If you could improve any aspect of the ARIN AC, what would it be?**

I am of the view that the ARIN Advisory Council performs very well at the present time. A lot of that has to do with the thoughtful and collegial Advisory Council members with whom I have the pleasure of serving, the excellent leadership provided by our Board, and the terrific support and guidance we obtain from ARIN staff and external counsel. I can think of no better example of a service-minded organization than ARIN. I do not see the need for any major changes at this time.

**The role of the Advisory Council is to advise the ARIN Board of Trustees on Internet number resource policy and related matters. Describe a similar experience you have had in such an advisory role.**

I am a current member of the ARIN Advisory Council.

In addition, in my role as a practicing lawyer, I advise clients on policy and other matters, often with input from other members of my law firm and/or other client advisers.

**Please provide a brief CV highlighting experience relevant to the duties of the ARIN Advisory Council.**

TELUS

2008 – Present

IP Address Management prime for the organization| Driving efficient allocation of IP address resources for millions of customer services  
Represented TELUS at ARIN, contributing to policy Led IPv6 Program to deploy IPv6 across Internet services

IEEE, Vancouver Section

2019 – Present

Treasurer of Vancouver Section (2020 Jan - Present)  
Supporting essential operations of the section

IEEE, Vancouver Section

Chair of Humanitarian Committee (2020 Jan - Present)

Identifying and organizing humanitarian initiatives

IEEE, Vancouver Section

Secretary of Vancouver Section Executive (2019 Mar - Dec)

Creating tools to assist in organizational productivity  
Assisting the chair in running section meetings  
Facilitating multi-stakeholder collaboration

**Please disclose any conflicts of interest you may have with doing your duty as a member of ARIN's Advisory Council. How do you propose to resolve such conflicts?**

I have no conflicts to report at this time.

**Describe any limitations on your ability to attend Advisory Council and Public Policy Meetings in person or to serve the entirety of a three-year term.**

None anticipated.

**Have you attended ARIN meetings or otherwise participated in ARIN procedures in the past? What did you find the most rewarding from those meetings or procedures? What suggestions for improvement might you have?**

I have been able to attend several ARIN meetings over the past decade, mainly the meetings held in my home country of Canada. I was fortunate to have been selected as a fellow in 2019 to ARIN 43. I appreciate the opportunity to engage in discussions with an array of stakeholders to form consensus based policies. Sometimes this is smooth, and other times this can be challenging when different stakeholders have a different concept of what fair means. It is particularly in this moments when the community has to come together and solve difficult challenges.

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## Matthew Wilder

TELUS



<https://www.linkedin.com/in/matthewwilder/>

**Bearing in mind that you run and serve as an individual, rather than as representing an organization, please provide the name of any organizational affiliations.**

TELUS

Institute of Electrical and Electronics Engineers

**How do you think ARIN's function, scale, or role should change?**

The transformation of ARIN from a simple registry to an integral component of Internet infrastructure is well underway. No longer simply assigning IP Addresses, ARIN is increasingly critical to the trustworthiness of Internet resources, including emerging RPKI, and IRR technologies. At the same time, the emergent market demands that ARIN policies and procedures continue to adapt to the needs of the community so that the registry can remain a trusted source of information about the resources underpinning the Internet. In particular, ARIN must become hardened against fraud, while ensuring that legitimate transfers may proceed in order to keep Whois data accurate.

**What differentiates you as a candidate or makes you uniquely suited to the post?**

Having held responsibility for IP Address Management for a large service provider, I have seen a wide variety of demands on IP addresses over the past 12 years. Different technologies and end user requirements can possess different efficiency and growth characteristics. It is the role of good policy to cut through these differences to find common ground for fair and just for the many stakeholders that comprise the ARIN community. My experience in enforcing ARIN policy within my own company in a needs and justification-based manner affords me the perspective needed to incorporate the variety of needs within the membership.

**How do you separate your personal opinions from those of your organization and those of the community? What areas of policy, if any, need more attention and why?**

Certainly, I am an agent of my company, and I am a member and officer of the Institute of Electrical and Electronics Engineers (IEEE), but I am also a member of the ARIN community. as a member of the ARIN community, I am able to consider the needs of others within the group, and not only my own organization. Those who know me, from within the ARIN community, and without, know me as someone who holds fairness to be of utmost importance. I am committed to delivering fair and just policy to the ARIN community, and my policy contributions are publicly available as a demonstration of that commitment. My organization supports this commitment to the community.

**What are your thoughts on the rights and responsibilities of legacy IP address holders?**

Legacy IP Address holders, as with any other members of the community, have the right to participate in the policy development process, the right to use the resources assigned to them, and the responsibility to appropriately report the use of their resources while covering the cost of ARIN operations to per-

form the critical functions of the registry. The think that the rights of legacy address holders should not be transferable to recipients in IP Address transfers.

**What are your thoughts on needs-based justification for the receipt of IP addresses?**

Needs-based justification continues to serve a central role in the vitality of the Internet. A decoupling of the receipt of addresses from needs-based justification would leave the entire Internet prone to speculative - and potentially predatory - market activity which would only serve to cripple new and growing organizations which rely on the market for their IPv4 resources. This is not in the best interest of our community, and would deeply undermine the fairness which ARIN seeks to achieve in policy development.

**What do you believe to be ARIN's greatest challenges?**

Given the rise in value of IPv4 addresses, ARIN must remain rigorous operationally in identifying potential fraud so that policies can continue to harden against such activity.

Additionally, ARIN must continue to innovate in methods to evangelize the adoption of new technologies including IPv6, RPKI, and IRR.

**If you could improve any aspect of the ARIN AC, what would it be?**

Although this improvement is perhaps not so much for the ARIN AC itself so much as the tools the AC has at its disposal, I wonder if there might be more effective means move policies forward more rapidly with regular input from the community. For example, perhaps online polling tools might invite more participation than strict reliance upon PPML. I believe experimentation in this area might invite richer community engagement to help facilitate more rapid and effective policy development.

**The role of the Advisory Council is to advise the ARIN Board of Trustees on Internet number resource policy and related matters. Describe a similar experience you have had in such an advisory role.**

As a professional engineer at a large communications company I regularly present recommendations to leaders within my organization. This includes summarizing complex matters into their component parts, providing options, highlighting costs and benefits, and identifying potential risks. These activities translate into the role of the advisory council, whose function it is to shepherd the development of policies, while taking into consideration a multitude of factors before arriving at a consensus-based recommendation to the board.





## **VOTING OPENS**

3:00 PM EDT, 23 October.

## **VOTING CLOSES**

5:00 PM EDT, 30 October

Watch for an email at 3:00 PM EDT on 23 October with instructions on how to vote.

[www.arin.net/elections](http://www.arin.net/elections)