Federal Communications Commission

Cover Sheet
North American Numbering Council (NANC) Meeting
Tuesday, Feb. 28, 2023

Hon. Karen Charles, Chairwoman
Ms. Christi Shewman, Designated Federal Officer

Contents:

- NANC Councilmember Attendance Sheet
- Agenda Final Vote Record
- NANC Combined Slide Deck – Presentations and Reports
- NANC Chair Certification

NANC Councilmember Meeting Attendance – 2023

In attendance yes/no:

Councilmember – Organization/Representative	Feb. 28	June xx	Oct. xx
Chairwoman – NASUCA – Massachusetts Dept. of Cable and Telecommunications • Commissioner Karen Charles	Y		
Vice Chairwoman – USConnect – JSI • Bridget Alexander White	Y		
10x People, LLC • Lisa Marie Maxson	Y		
800 Response Information Services, LLC • Heather Barrows	Y		
ACA Connects – America's Communications Association • Michael Jacobs • Brian Hurley (Alt)	N		
Ad Hoc Telecommunications Users Committee • Susan Gately	Y		
Alliance for Telecommunications Industry (ATIS) • Jackie Wohlgemuth • Thomas Goode (Alt)	Y		
AT&T Inc. • Dr. Ola Oyefusi • George Guerra (Alt)	Y		
Bandwidth • Greg Rogers • Lisa Jill Freeman (Alt)	Y		
Charter Communications • Betty Sanders • Glenn Clepper (Alt)	Y		
Comcast Corporation • Beth Choroser • Beth O'Donnell	Y		
Competitive Carriers Association (CCA) • Alexandria May	Y		
CTIA – The Wireless Association • Amy Bender • Sarah Leggin (Alt)	Y		
Electronic Privacy Information Center (EPIC) • Mr. Chris Frascella	Y		
Google LLC • Craig Lennon	N		
INCOMPAS	Y		

Councilmember – Organization/Representative	Feb. 28	June xx	Oct. xx
• Chris Shipley			
Inteliquent • Bryan Bethea	N		
Lumen • Phil Linse	Y		
Maine Public Utilities Commission • Chairman Philip L. Bartlett, II	N		
National Association of Attorneys General (NAAG) • Ms. Tracy Nayer	Y		
National Association of State Utility Consumer Advocates – NASUCA • Robert B. Nelson	Y		
Nevada Public Utilities Commission • Commissioner Tammy Cordova	Y		
NTCA – The Rural Broadband Association • Brian Ford • Tamber Ray (Alt)	Y		
Peerless Network, Inc. • Julie Oost • Patrick Phipps (Alt)	Y		
Public Service Commission of District of Columbia • Lara Howley Walt	Y		
SIP Forum • Rich Shockey	Y		
T-Mobile USA, Inc. • Rosemary Leist • Scott Freiermuth (Alt)	Y		
TDS Telecommunications LLC • Paul Nejedlo	Y		
Telnyx • David Casem • Sarah Halko (Alt)	Y		
USTelecom • John Bercu	Y		
Verizon • Dana Crandall	Y		
Vonage • Colin Brown	Y		
West Virginia Public Service Commission • Ms. Terri Blake	Y		
Special Members (Non-Voting)			
iconectiv LLC • Chris Drake	Y		

Councilmember – Organization/Representative	Feb. 28	June xx	Oct. xx
• **Cathy McMahon (Alt)**			
Somos, Inc. • **Joel Bernstein** • **Florence Weber (Alt)**	Y		

North American Numbering Council (NANC) Meeting
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Microsoft Teams/ Conference Call

AGENDA FINAL VOTE RECORD[1]

2:00 PM   **Call to Order and Welcome**
              Honorable Karen Charles, NANC Chairwoman
              Christi Shewman, NANC Designated Federal Officer (DFO)
              [Vote: Not Applicable]

2:05 PM   **Opening Remarks**
              Trent Harkrader, Chief, Wireline Competition Bureau
              Federal Communications Commission
              [Vote: Not Applicable]

2:15 PM   **Roll Call, Announcements, and Recent News**
              Christi Shewman, NANC DFO
              Honorable Karen Charles, NANC Chairwoman
              [Vote: Not Applicable]

2:25 PM   **Secure Telephone Identity Governance Authority (STI-GA)**
              Report to the NANC
              Brent Struthers, Alliance for Telecommunications Industry
              Solutions (ATIS), Director, STI-GA
              [Vote: Not Applicable]

2:40 PM   **North American Portability Management (NAPM), LLC**
              Report to the NANC
              Deborah Tucker, Co-Chair, NAPM, LLC
              [Vote: Not Applicable]

2:55 PM   **Numbering Administration Oversight Working Group (NAOWG)**
              Report to the NANC
              Philip Linse, Co-Chair, NAOWG
              [Vote: Not Applicable]

3:10 PM   **NAOWG Report and Recommendations on the Feasibility of Individual**
              Telephone Number Pooling Trials and Alternative Means for Conserving
              Numbering Resources
              Philip Linse, Co-Chair, NAOWG
              [Vote: Pass]

3:40 PM   **Public Comment and Participation**
              Honorable Karen Charles, NANC Chairwoman
              [Vote: Not Applicable]

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[1] **Further details regarding these agenda items are available in the transcript or videotape of this meeting.**

3:55 PM   **Wrap-Up**
Honorable Karen Charles, NANC Chairwoman
[Vote: Not Applicable]

4:00 PM   **Adjourn**
[Vote: Not Applicable]

NANC Combined Slide Deck – Presentations and Reports
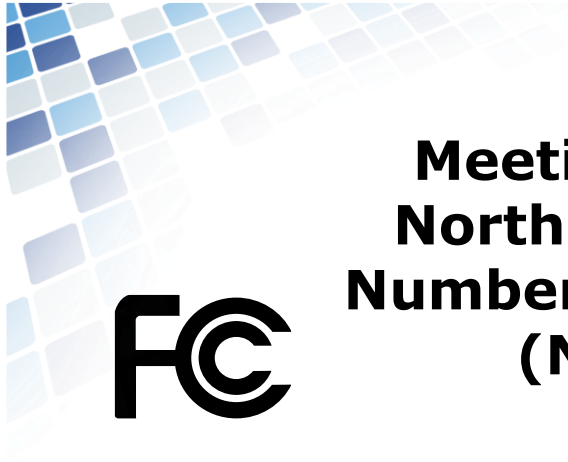
Meeting of the North American Numbering Council (NANC)

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Call to Order and Welcome

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Opening Remarks

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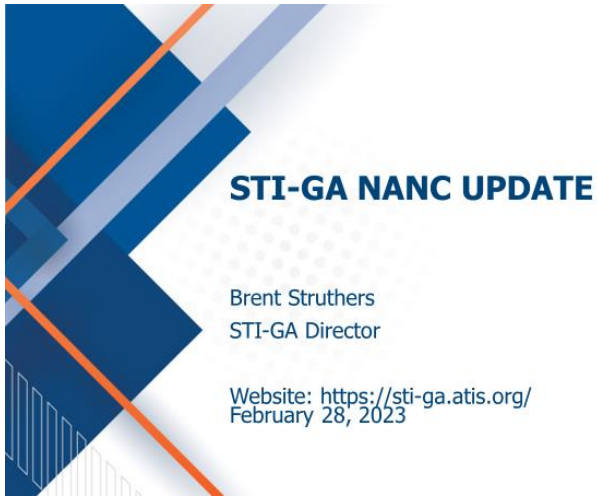
Roll Call,

Announcements,

and

Recent News

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STI-GA NANC UPDATE

Brent Struthers
STI-GA Director

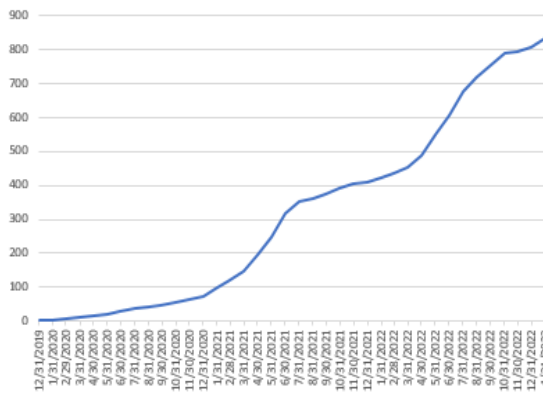Website: https://sti-ga.atis.org/
February 28, 2023

atis

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SHAKEN Framework STI-PA Authorization

STI-PA Authorization
- 835 service providers authorized as of 01/31/23
- Currently 11 authorized STI-CAs
  - Two more potential CAs are being considered

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SHAKEN Framework Status

STI-GA Policy & Guidance

- International SHAKEN
  - Following the MoU with Canada, the STI-GA Board is considering a set of initial trust criteria for work with others Governance Authorities
  - Criteria will guide STI-GA decisions to interconnect with SHAKEN frameworks outside the U.S., such as potentially France, the U.K., and Australia or even a non-jurisdictional GA.

- Certificate Policy Version 1.4
  - The Board is preparing to consider the adoption of a new version of its Certificate Policy
    - General clean-up
    - STI Certificate Repository & Revocation List
      - Changes to CRL for tracking purposes
      - Clarification on who may revoke certificates
    - Security updates

STI-GA Framework Funding

- SP Payments
  - Except for recently authorized SPs, SP payments were due at the end of January. If providers have not paid, the STI-PA has the authority to revoke their SPC tokens
  - Providers that signed on and paid in 2020 should have been notified of a credit for their 2020 fees, and that the credit would be applied to the payment of their 2023 dues

STI-GA Outreach

- 2022 Year-End Report
  - Summarizes STI-GA work and progress in managing the STIR/SHAKEN Framework

- External Feedback Forum
  - A forum is being developed to take direct feedback from entities without representation on the STI-GA Board

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Questions?

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North American Portability Management (NAPM) LLC Report to NANC

Deborah Tucker
NAPM LLC Co-Chair

NAPM
AN PORTABILITY MANAGEMENT, LLC

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NAPM
AN PORTABILITY MANAGEMENT, LLC

LNPA Accomplishments from 2022

- Delivered NPAC services to over **1400** Service Providers/PTRS and **~7000** Ancillary Services users with high quality, security
  and service availability
- Activated **74M** inter-provider ports (up 15% from 2021)
- Processed **150M** transactions (down 26% from 2021)
- Completed over **787** SPID Migrations (up 59% from 2021)
- Processed **111,465** Pooled Blocks (~same as 2021)

Statements of Work & Contract Amendments

- SOW 37 was approved which provides the following enhancements:
  - Provides a new requirement for the NPAC to return an error if the Portable NPA-NXX Effective Date is less than 1/1/2000.
  - Provides a new requirement to validate that when deleting a service provider in the NPAC there are no NPA-NXX-Xs associated to that service provider.

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- NPAC Release Schedule - Release 5.1.1 was successfully implemented on February 5, 2023 and included:
    - o Functionality for SOW 29 & 30 as well as operational improvements and usability enhancements.

Contract Implementation Committee (CIC)

- Three new findings reports for Providers of Telecommunications Related Services (PTRS Users that are non-Service Providers) to validate the need for NPAC data access were received and approved since the last NANC meeting.

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NAPM LLC Role

Provide oversight and management of the Local Number Portability Administrator (LNPA) in accordance with the contract, orders and/or direction from the FCC.

Contact Information

Co-Chair – Deb Tucker, Verizon Wireless - 615-478-3548 or
Deborah.Tucker@verizonwireless.com
Co-Chair – Teresa Patton, AT&T – 972-989-5126 or TP1393@att.com

Meeting Information

The NAPM LLC meets monthly, a portion of each meeting is open for attendance by any interested party. The current meeting schedule is published on the NAPM LLC website: http://www.napmllc.org

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Questions?

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Numbering Administration Oversight Working Group (NAOWG) Report to the NANC

Philip Linse
NAOWG Co-Chair

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North American Numbering Council (NANC)

Numbering Administration Oversight Working Group (NAOWG)

February 28, 2023

Co-Chairs:
Philip Linse, Lumen
Lara Walt, Public Service Commission of the District of Columbia
Karen Riepenkroger, T-Mobile

FCC Liaisons:
William Andrle and Rebecca Maccaroni

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Area of Responsibility

- **Mission:** The Numbering Administration Oversight Working Group oversees the activities and reviews the performances of the North American Numbering Plan Administrator, and the Billing and Collection Agent. It also provides oversight of number portability administration and the Reassigned Numbers Database Administrator.

- FCC contract oversight of the following vendors
  - North American Numbering Plan Administrator (NANPA) – Somos
    - NANPA – Administers the allocation of the North American Numbering Plan (NANP) numbering resources, the allocation of 1,000's Block Number Pooling, and the Routing Number Administration (RNA) for p-ANI numbering resources
  - Reassigned Numbers Database Administrator (RNDA) – Somos
    - RNDA – Administers the data that is provided into the RND and the service that is provided to callers.
  - Billing & Collections (B&C) Agent – Welch LLP
    - Bills and Collects from the Telecommunications industry for payment for the functions of the B&C Agent, NANPA, Pooling Administrator (PA), and RNDA Vendors

- Oversight of Number Portability

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Contract Status

NANPA/RNDA:

- SomosGov, Inc. – Awarded combined NANPA/RNDA contract
  – Effective December 1, 2020
  – Five-year base duration, plus three one-year options (total up to eight years); current expiration November 30, 2025

B&C Agent:

- Welch LLP – Billing & Collections contract
  – Effective May 1, 2018
  – Five-year duration; current expiration April 30, 2023

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Contract Oversight Activity

Activities:
- NANPA
  - NANPA monthly report
  - NANPA combined system development status
  - Evaluation

- RNDA
  - RNDA monthly report
  - Evaluation

- B&C Agent
  - NANP financial monthly report
  - RND financial monthly report
  - Evaluation

- LNP NPIF
  - Number Portability Industry Forum (NPIF) work activity

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NANPA

– Reviewed NANPA monthly reports
  - NANP
  - PA
  - RNA

– Completed NANPA monthly/quarterly evaluations

– NANPA contract includes combining Number Administration System (NAS), Pooling Administration System (PAS), and Routing Number Administration System (RNAS)
  - Update: NANPA anticipates completion of combined NAS **4Q of 2024**

– Completed Development of NANPA/PA/RNA Performance Surveys
  - Provides annual opportunity for user feedback
  - Targeted user types (Service Provider and Others/Regulator)
  - Considered in annual evaluation
  - PRA Review Complete and Survey Vendor Chosen

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RNDA

– Review RNDA monthly report

– Service Provider data upload by 15th of each month

– Service Provider data uploaded as of December 2022:
  - 236,958,730 total NANP numbers including Toll Free
  - 1,086 Service Providers/Service Provider Agents
  - >20M Numbers Queried Monthly (Trend)
  - 513 Users/User Agents

– Completed RNDA monthly/quarterly evaluation

– RND websites
  - RNDA website: https://www.reassigned.us/
  - FCC website: https://www.fcc.gov/reassigned-numbers-database

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Billing & Collections Agent

– Reviewed B&C Agent Reports
  • Annual Operational Review
  • Monthly Review of Deliverables
  • NANPA Financials
  • RND Financials
  • Completed Monthly/Quarterly Evaluation

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Number Portability Industry Forum (NPIF)

– The NPIF continues to meet on a monthly basis with a focus on general LNP industry issues including XML Interface improvements, LSMS capacity planning, best practice updates and change order review.

– Chairs:
  ➢ Deb Tucker – Verizon (deborah.tucker@verizonwireless.com)
  ➢ Teresa Patton – AT&T (tp1393@att.com)

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Questions?

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NAOWG Report and Recommendations on the Feasibility of Individual Telephone Number Pooling Trials and Alternative Means for Conserving Numbering Resources

Philip Linse
NAOWG Co-Chair

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Individual Telephone Number (ITN) Pooling Request

- On February 9, 2022, the NANC received a charge letter to have its NAOWG submit a report, no later than August 15, 2022, addressing the following topics using multiple specific examples and data wherever possible:
  - Any updates to the underlying facts or conclusions in the *2000 NANC Report* that the NANC believes would be useful to the Commission;
  - The feasibility of ITN pooling trials, including technical, operational, and cost considerations with respect to the entity administering the pooling (such as the Pooling Administrator), service providers, and other stakeholders. If ITN pooling trials are not feasible, the time, level of effort, and cost of remedying any technical and/or operational issues;
  - The extent to which service providers may have difficulty incorporating both methods of pooling (thousands-block and ITN) in their network if providing service both inside and outside of any trial area;
  - The extent to which service providers that do not obtain telephone numbering resources in the area in which any ITN pooling trial is conducted would be negatively affected by such trial;

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ITN Pooling Request (Con't)

  - Which entities (such as the NANPA/PA) are capable of implementing any ITN pooling trial, and which may be most suitable;
  - The amount of time it might take to implement, conduct, and determine the success of any trial, and how success should be measured;
  - How the number of ITN pooling trials being conducted would affect the NANC's findings; and
  - Any suggestions the NANC may have for alternative means, other than ITN pooling, of tailoring numbering resource allocation closer to actual service provider needs and enhancing conservation and utilization.
- On July 1, 2022, the FCC issued an extension of the deadline for the NANC Working Group final report to October 7, 2022.
- On September 13, 2022, the FCC issued an amended charge letter with the NAOWG's final draft due January 31, 2023. This amended charge letter broadened the work to consider a full spectrum of potential options for numbering resource conservation, including ITN pooling.

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ITN Pooling Request (Con't)

- The report finds that the significant technical and operational effort required to enable an ITN pooling trial is just not practical or fiscally responsible, particularly when there is no reasonable expectation that ITN pooling can be easily implemented nationwide.

- The report identifies both short-term and long-term number conservation strategies
  Short-term number conservation strategies

  - Short-term number conservation strategies that do not require changes to the existing thousands-block pooling framework but may require FCC rule changes include:
    - Rate Center consolidation;
    - Education;
    - Enforcement;
    - Mandatory thousands-block pooling in all rate centers; and
    - Increase of thousands-block contamination level.

  - Long-term number conservation alternatives to the existing thousands-block pooling framework include:
    - Hundreds Block Pooling; and
    - ITN Pooling.

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Numbering Administration Oversight Working Group (NAOWG) Members

NAOWG Members:

- ✓ 10x People
- ✓ Ad Hoc
- ✓ AT&T
- ✓ Charter
- ✓ Comcast
- ✓ Cox
- ✓ DC PSC
- ✓ Lumen
- ✓ Maine PUC

- ✓ NASUCA
- ✓ PACE
- ✓ TDS
- ✓ Telnyx
- ✓ T-Mobile
- ✓ US Connect
- ✓ Verizon
- ✓ Washington UTC

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Future Meetings/Contact Information

2023 Meetings

March 30	July 27	October 26
April 27	August 31	November 16
May 25	September 28	December 14
June 28		

Contact the Co-Chairs for complete meeting or conference call details
Philip Linse – philip.linse@lumen.com
Lara Walt – lwalt@psc.dc.gov
Karen Riepenkroger – karen.s.Riepenkroger@t-mobile.com

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Questions?

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Public Comments

and

Participation

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Wrap Up

FC 32

Adjourn

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<u>Certification of Minutes for Meeting of the North American Numbering Council</u>

I, Karen Charles, Chairwoman of the North American Numbering Council, state that the above minutes are true and accurate, to the best of my knowledge and belief. Additional details of the meeting also may be found in the recorded videotape, available at https://www.fcc.gov/about-fcc/advisory-committees/general/north-american-numbering-council .

_____   _____
Karen Charles   [[date]]
Chairwoman
North American Numbering Council