

Alliance for Telecommunications Industry Solutions

> Problem Solvers to the Telecommunications Industry

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June 1, 1995



Mr. William F. Caton, Secretary Federal Communications Commission 1919 M Street N.W. Room 222 Washington, D.C. 20554

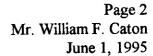
Re: CC Docket No. 92-237 and IAD File Nos. 94-102 and 94-104 Ex-Parte Presentation May 23, 1995, by the Cellular Telecommunications Industry Association (CTIA)

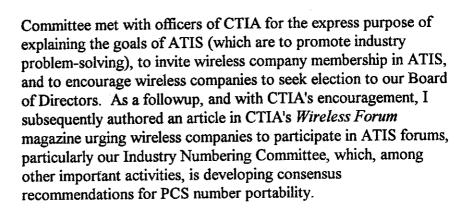
Dear Mr. Caton:

The "Draft Proposal: Creation of the U.S. Numbering Association" presented by CTIA has two errors of substance about the Alliance for Telecommunications Industry Solutions (ATIS). I believe it is necessary to correct these errors in order to create an accurate record, and I request that this correspondence be filed as an exparte in the above-referenced proceeding.

First, CTIA's proposal refers to "the LEC-governed" and "LEC controlled" ATIS (footnote 3, page 2). The fact is that our 27member Board of Directors is made up of non-LECs and carriers with substantial non-LEC interests. The Board includes representatives from AT&T, Sprint, MCI, WilTel, Frontier Corporation, MFS Communications and Teleport Communications Group, all non-LECs. Moreover, a majority of our Board members have substantial wireless operations in their companies, and they vigorously represent those interests in Board discussions. Finally, the real "output" of ATIS occurs in its sponsored committees, such as the Industry Numbering Committee. The consensus-based standards and operational guidelines developed in our sponsored committees are in no way directed or influenced by our Board. They are developed by an even broader-based participant pool, where cellular and wireless companies are quite active. Thus, the suggestion that there is LEC governance or LEC control is not substantiated nor is it real.

Second, CTIA maintains it has made "requests" to ATIS to "broaden its scope." ATIS has yet to receive such a request. It should be noted, however, that we are constantly seeking new members from all industry segments. Last year, for instance, ATIS staff members and the chairman of the ATIS Board's Liaison





In this regard, ATIS's efforts to expand its membership will continue, and we welcome the continued interest and participation of the cellular industry in our activities.

Sincerely,

George L. Edwards

cc: Ruth Milkman

Karen Brinkman John Nakahata

Pam Bell

Who's Got <u>Your</u> Number?

CTIA's Proposal of a New, Independent Administrator to Manage Scarce "Numbering" Resources

by

Robert F. Roche
CTIA Director for Research

May 24, 1995

Who's Got Your Number?

That's the question of the hour for telephone, cellular, fax and paging customers, as U.S. customers rapidly use up the available numbers in the North American Numbering Plan (NANP).

Since numbering resources are scarce, whoever administers them will have to deny some requests. Because there will be disappointed applicants, it is crucial that the numbering administrator both be unbiased and have the appearance of no bias to build credibility. The entire industry agrees that the administrator should be recognized as neutral and independent of any one type of service provider. (The current manager of the overall numbering plan, Bellcore, is owned by the Regional Bell companies and has asked the FCC to reassign the responsibility.)²

For four years, the FCC has had before it a request that a new administrator manage the North American Numbering Plan. CTIA proposes breaking the deadlock, and creating a "U.S. Numbering Association," a consensus-guided

The "telephone" numbers used by consumers in the U.S. for all telecommunications services are made up of a three-digit area code, a threedigit NXX or central office code, and a four digit line number. Since 1951, area codes have been designated with a "1" or a "0" as the second digit. (Adopted in 1947, the area code plan was first implemented in 1951.) When that code plan was adopted, it was thought those numbers would last to the end of the century. Those codes, though, have now been used up ("exhausted" in industry parlance), and new area codes are being created. As a result, consumers in communities across the country are facing the prospect of either losing their old area codes, or having additional codes "overlaid" over the same geographic area. The assignment of NXX central office codes has also become an issue as new service providers enter the marketplace, and seek numbers for their customers.

authority, to manage the North American Numbering Plan. This

The assignment of central office codes has been performed by the largest local exchange carrier within each Numbering Plan Area ("NPA" -- popularly called "area code"). See Administration of the North American Numbering Plan, Notice of Proposed Rulemaking, 9 FCC Rcd. 2068, at 2072 n.33 (1994).

While the Regional Bell companies are now discussing the sale of Bellcore, which would presumably establish its independence from its historic LEC parents, the issue of ownership or affiliation will not disappear.

authority, with a neutral governing board for which all carriers will be eligible, will consider all views and the specifics of situations, in resolving numbering issues.³ It will comprise the neutral and independent administrator desired by the industry.

Ironically, the problem is the price of success. When the original code plan was adopted, fewer than 35 million phones were in Americans' hands. Now, more than 145 million phones are wired across the country --including more than 92.4 million American homes, and 25 million businesses. More than 25 million Americans now carry cellular phones; and almost 27 million carry pagers. Fax machines are projected to number 50 million by the year 2000. As one writer observed "across the country, 80,000 new phone numbers are handed out every day to keep people wired into an increasingly communications-oriented society." With this phenomenal growth -- two out of three new telephone numbers go to subscribers to wireless services -- the rapid and fair distribution of numbers is critical to giving consumers what they want, and what they need, when they need it.

Nonetheless, while the industry has reached a consensus on the solution -- a neutral and independent, non-governmental authority to administering numbering -- the FCC is still "reflecting" on the issue. The issue still has not been resolved four years after the National Association of Regulatory Utility Commissioners (NARUC) filed its petition asking the FCC to initiate an inquiry into the costs and future administration of the numbering plan, and the implications of competition and different numbering schemes for the marketplace.

The NANP administrator assigns not only area codes but also: (1) Carrier Identification Codes (CICs) that enable carriers to have more direct access to the public switched network; (2) Service access codes (N00); (3) Service codes (N11 codes); Certain central office NXX codes for 900 services and the central offices for Bermuda and the Caribbean islands in the 809 NPA. Under various agreements with the T1 Committee of the Alliance for Telecommunications Industry Solutions (formerly Exchange Carrier Standards Association) and the Industry Carriers Compatibility Forum (ICCF), Bellcore also administers: (1) vertical service codes used by LECs; (2) Signaling System 7 network address codes; and (3) Automatic Number Identification digits.

⁴ See Trends in Telephone Service, (FCC Industry Analysis Division, February 1995), at Table 1. See also CTIA News Release announcing 25 Millionth cellular customer, February 24, 1995.

⁵ See 1993 U.S. Industrial Outlook, at 29-5.

⁶ Dave Weber "Information Superhighway Accelerates the Creation of New Area Codes," *The Orlando Sentinel*, April 24, 1995, at A4.

After receiving comments and replies on the original petition, issuing a Notice of Inquiry (NOI) in October 1992, receiving comments and replies, issuing a Notice of Proposed Rulemaking in April 1994, and receiving further comments and replies, the FCC still has not acted on the clear industry consensus -- that an independent, non-governmental administrator should assume responsibility for number administration. While the FCC has considered the issue, the problem has grown more acute.

How Real Is The Problem?

While the FCC was considering the latest round of comments and replies, number "exhaustion" proceeded -- and controversy brewed. Bellcore determined that at least eight new area codes would be needed across the country in 1995, and new codes were assigned in Alabama, Arizona, Colorado, Florida, Georgia, Illinois, Texas, Virginia and Washington state. Two more codes are being discussed for use in California and Florida. In fact, as many as 14 area codes are scheduled to change in North America this year, including Bermuda and Canada.

New area codes -- either applied as "overlays" over the same geographic area as a pre-existing area code, or as a geographic split -- hold out the prospect of forcing customers to change their dialing habits to complete calls (such as requiring consumers to dial ten digits for all calls within their areas). This situation exists across the nation, from Oregon to Connecticut, from Michigan to Florida.

⁷ See "Area Codes: Eight New-Style Area Codes Assigned for 1995; More on the Way; Time for PBXs to Get Ready," Edge, October 10, 1994. "New Area Code: New Area Code '360' to be Implemented on Jan. 15 in Western Washington," Edge, January 16, 1995. See "Bellcore Assigns 8 Non-Traditional Area Codes," Newsbytes News Network, October 6, 1994. See also Dave Weber "Information Superhighway Accelerates the Creation of New Area Codes," The Orlando Sentinel, April 25, 1995, at A4; and see Tim Fay "Inside Perimeter, But Outside 404 Area Code; Chamblee 'was misled' about change, city official says," The Atlanta Journal and Constitution, May 4, 1995, at A1.

⁹ See "AGT Limited - Use of Area Code Effective January 8, 1995," Canada NewsWire, January 5, 1995. See also Jube Shiver Jr. "Numbers Crunch: Whether 'Overlays' or New Areas, You Can Count on Dialing Changes," Los Angeles Times, March 22, 1995, at D1.

¹⁰ See "New Method of Dialing Long Distance Calls Within Eastern Massachusetts to Begin October 15; Rates and Calling Areas Not Affected," PR Newswire, October 4, 1994. See also "First Duplicate Phone Numbers to Appear in 810, 313 Area Codes," PR Newswire, November 3, 1994 (re Michigan areas); and Diana Aitchison, "Phones Becoming More Than a Handful," The Kansas City Star, March 26, 1995, at A1. ¹¹ Id. See also "Oregon Moving Toward Second Area Code," Telephone IP News, April 1995. See also Susan E. Kinsman, "Area Code Resolution Goes By the Numbers," The Hartford Courant, March 21,

The FCC already has received more petitions requesting action on numbering issues. First, in August 1994, three paging companies filed a petition objecting to a proposed "overlay" plan in Illinois which would require wireless carriers and their customers to surrender already assigned telephone numbers, and accept new telephone numbers. The surrendered numbers would be held in reserve for wireline telephone customers. Then, in December 1994, a competitive access provider, Teleport Communications Group, filed a petition objecting to a similar overlay plan in California. Teleport requested that the FCC use its authority over numbering issues to prevent the use of overlays for competitive wired and wireless customers. ¹³

On January 23, 1995, the FCC released a *Declaratory Ruling and Order* which addressed part of the issue. The FCC ruled that number administration:

- "must reflect sensitivity to the growth and dynamic nature of the communications industry;"
- "must seek to facilitate entry into the communications marketplace by making numbering resources available on an efficient, timely basis to communications service providers;" and
- "should not unduly favor one technology over another."

The FCC also opined that:

 "a successful administration of the NANP will not unduly favor or disadvantage any particular industry segment or group of consumers."

However, the *Declaratory Ruling* fails to recognize the urgency of numbering exhaustion. Rather than resolving numbering issues by directly assigning the code responsibility to a neutral administrator, the FCC "authorize[d] the Common Carrier Bureau to act for the Commission under

^{1995,} at A3, and Michael E. Young, "Area Code Idea Gives Callers a New Hang-Up; Broward Residents Want to Retain Phone Numbers," Fort Lauderdale Sun-Sentinel, March 11, 1995, at 1A.

¹² See Proposed 708 Relief Plan and 630 Numbering Plan Area Code, Declaratory Ruling and Order, IAD File No. 94-102, FCC 95-19, rel. January 23, 1995, petition for recon. pending.

¹³ See Commission Seeks Comment on Teleport Petition for Declaratory Ruling on Pacific Bell Area Code Numbering Plan, IAD File No. 94-104, Public Notice DA 94-1482, rel. December 15, 1994.

¹⁴ Id. at para. 18.

delegated authority in resolving future number resource allocation disputes." ¹⁵

The FCC has invited further dispute by failing to resolve the outstanding docket on number administration. In fact, its resolution of the Illinois case has contributed to the debate over the Teleport petition.

What's The Solution?

As CTIA has stated, its position is that:

- The administration of the North American Number Plan and the assignment of new numbering resources are of great competitive importance to all segments of the telecommunications industry.
- Responsibility for the administration and assignment of numbering resources should be promptly placed in the hands of a new independent entity with a neutral governing board open to all carriers.
- Responsibility for determining the form of numbering relief should be
 placed in the hands of the new numbering authority, which will permit
 all affected parties to develop the most appropriate plan consistent with
 local needs and the FCC's numbering assignment principles.

CTIA offers the attached proposal for the creation of a "U.S. Numbering Association" to constitute this consensus-guided numbering authority. This authority, with its neutral governing board, will consider all views and the specifics of situations, in resolving numbering issues. It will therefore comprise the neutral and independent administrator desired by the industry. The FCC should promptly resolve the outstanding number docket by adopting the attached proposal.

¹⁵ Id. at para. 36.

PROPOSAL FOR CREATING THE U.S. NUMBERING ASSOCIATION

The FCC should immediately create the United States Numbering Association (USNA) to administer the U.S. numbering resources of World Zone One. The following areas highlight the overall plan for establishing the USNA.

1. Location

The USNA would be based in Washington, DC to enhance its working relationship with the FCC and the various associations representing the telecommunications industries.

2. Representation

Due to Canadian and Caribbean sovereignty issues,² the USNA should only administer the resources of U.S. carriers. The USNA would coordinate assignments with their counterparts in other Zone One nations.

A Board of Directors would be established, inviting a minimal complement of representatives from each telecommunications industry segment that utilizes numbering resources. This would encompass Wireless Service Providers (WSPs), Local Exchange Carriers (LECs), Interexchange Carriers (IXCs), Competitive Access Providers (CAPs), and others (e.g. cable, payphone, satellite industries). Board member selection would be facilitated by the FCC working directly with the key associations representing the specific industry segments. A cap on representation would be established, to prevent an oversized Board. Members of the FCC could act in an advisory capacity during the formation and initial meetings of the Board. Once the USNA were fully operational, FCC interaction would be minimal.

3. Staffing and Office Requirements

Presently, five staff members perform the NANPA functions. Each RBOC also provides staff to assign NXXs at the regional level. Considering efficiencies gained by putting all assignments into one office, it is estimated a ten-person staff could handle the assignments. An Executive Director would lead the effort. Additional research is needed to determine the specific staff responsibilities and compensation levels, and project staff growth.

World Zone One is composed of Bermuda, Canada, the United States and the Caribbean islands in the 809 NPA (i.e., Anguilla, Antigua, Bahamas, Barbuda, Barbados, British Virgin Islands, Carriacou, Cayman Islands, Dominica, Dominican Republic, Grenada, Jamaica, Monserrat, Nevis, Puerto Rico, St. Kitts, St. Lucia, St. Vincent and the Granadines, Trinidad and Tobago, Turks and Caicos Islands, and the U.S. Virgin Islands).

The Canadian government has established an elaborate, though often criticized process for administering their numbering resources. The CRTC, Industry Canada, and the Canadian Numbering Administrator work together and with telecommunications service providers on numbering issues. It would be best if the Canadian, U.S., and other countries would work together in international numbering strategies in lieu of the U.S. attempting to assume and/or assert control over another country's domain.

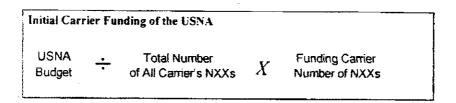
All numbering assignments would be done through computerized databases, based on uniform assignment criteria adopted by the Board of Directors.³

Staffing requirements would take into account travel expectations to participate in national (INC) and international (ITU) numbering forums.

4. Funding

Funding for the USNA would be provided by the users of the numbering resources: WSPs. LECs. IXCs. CAPs. and others. With additional research, a budget would be developed to account for projected staffing, overhead, expenses, and revenue. Initial funding would be provided through assessments to carriers, based on their numbering resources in use. Regular funding for operating revenue would be derived from assignment fees.

A. Initial funding for development and creation of the USNA would be provided by the current numbering resource users and would be based on the formula below. Since the majority of work to be performed would be administering NPA and NXX codes, initial funding of the USNA would be based on the number of NXXs currently in use. For smaller carriers that share an NXX, the formula could be adjusted.



B. Regular funding of the USNA would be based upon a rate structure to be developed, and based upon a fee per number assignment. NPA and NXX code assignment fees would be the primary income for USNA. A complete fee schedule would be developed for all assignments (see list below).

Two groups under the LEC-governed Alliance for Telecommunications Industry Solutions (ATIS) have developed numbering proposals. The Industry Numbering Committee (INC) has developed NPA Relief Planning Guidelines, and the Industry Carriers Compatibility Forum has developed NXX Assignment Guidelines. Pending review, these documents could be useful in developing USNA guidelines. ATIS' governance remains LEC controlled, despite requests from CTIA to broaden its scope. WSPs have participated in drafting the current numbering guideline documents.

This initial carrier funding mechanism is similar to the CTIA funding mechanism for Fraud Assessments and Health & Safety Assessments, based on member spectrum and pops.

For a simpler initial funding alternative, each USNA Board member company, or the association they represent, would pay a flat fee for the privilege of sitting on the Board.

5 Numbering Assignments

The USNA's primary responsibility would be assigning NPA and NXX codes. These, and other numbering resources for which a fee would be charged include:

- a) NPA (area) codes;
 - for the United States, Canadian provinces, and other locations,
 - N00 codes (e.g. 500, 800, 900 area codes), and
- b) NXX (central office) codes
 - in the 809 NPA, for Caribbean nations.
 - in the 456 NPA for routing of inbound international calls,
 - in the U.S.6 and Canada. and
- c) Carrier ID Codes (e.g. 10-XXX codes); and
- d) SS7 network codes

Other numbering assignments are currently performed by other entities representing telecommunications service providers, as noted below. Further research is necessary to determine the need and feasibility of putting their assignment under the USNA.

Numbering Assignment	Responsible Entity	Length	Purpose
System Identification (SID)	FCC	5	Identify market-level licensed wireless service providers.
ESN Manufacturer Prefixes		3	First 3 digits of an 11-digit ESN, which identifies the mobile unit manufacturer.
Billing Identification (BID)	CIBERNET Corporation	5	Identifies the wireless service provider responsible for billings to a particular NXX. The BID is often a SID subset.
Carrier Identification Number	CIBERNET Corporation	3	Identify wireless service provider companies.
Non-dialable numbers	none - WSPs arbitrarily assign #s to themselves. CIBERNET tracks usage.	3	Unique area codes, outside the range of NANP, used by wireless carriers to identify mobile units of unique application, specific to their geographic markets e.g. UPS courier tablets.
Operating Company Code (OCN)	National Exchange Carriers Association (NECA)	3	Identify mainly LECs & IXCs for message routing and rating purposes. WSPs have started using OCNs for message processing with LECs.
Revenue Accounting Office (RAO)	Bellcore	3	Used by LECs & IXCs to identify themselves as the recipient of billings. Similar to SID or BID.

Because some of the numbers above are industry segment-specific (i.e. CIBERNET BIDs, and Bellcore RAOs), it would be ideal for the responsible entity to continue as the assignor. In the future however, as technologies converge, traditional industry segmentation will blur.

RBOCs presently assign NXXs to service providers in their territories. The USNA would take over this responsibility.

Wireless and landline service providers will likely be exchanging call record and billing information more frequently. This will necessitate a more uniform assignment of the various numbering codes to facilitate intercarrier routing and exchange of messages.

<u>Summary</u>

Multiple telecommunications industry segments now benefit from numbering assignments. The methods and entity currently employed to administer numbering resources are outdated and require immediate change.

The FCC should immediately establish the U.S. Numbering Association (USNA) to administer the numbering resources of World Zone One. The USNA would be a Washington. DC-based staff of approximately ten persons, overseen by a Board of Directors comprised of representatives from all telecommunications service providers. The USNA would be funded by assignment fees for numbering resources which telecommunications service providers require.



For Immediate Release May 25, 1995

<u> ಆಭಕ್ರಗಳ ೧</u>೯೪ Wileless Future

CTIA

Cenular Telecommunications Industry Association 1250 Connecticut Ave.N.W. Suite 200 Washington, D.C. 20036 202-785-0081

CTIA Submits Proposal To FCC To Create New Independent Entity To Manage U.S. Phone, Fax, Paging Numbers

WASHINGTON, D.C. - CTIA submitted a proposal to the Federal Communications Commission (FCC) to immediately establish an independent, neutral entity to administer the assignment of numbers for phones, faxes and pagers in the United States.

"Talephone numbers are a scarce resource, and therefore of great competitive significance," said CTIA President Thomas E. Wheeler. "The methods and entity currently employed to administer numbering resources are simply outdated and require immediate change."

Wheeler said that 80,000 new numbers are assigned each day, and two out of three of these are given to wireless phone and paging customers. Within the next 10 years, experts predict that the number of wireless customers are expected to grow from 53 million to 124 million.

"For four years, the FCC has had before it a request that a new administrator manage the North American Numbering Plan. CTIA proposes breaking the deadlock by asking the FCC to create a consensus-guided U.S. Numbering Association," Wheeler said. "By establishing an independent administrator, with a neutral governing board for which all carriers will be eligible, all views and the specifics of situations will be considered in resolving numbering issues."

According to CTIA, when the old numbering plan was adopted 48 years ago, it was thought that the area code numbers established then would last to the end of the century. However, these codes have now been used up and new area codes are being created.

Consumers in communities across the country are facing the prospect of either losing their old area codes, or having additional codes "overlaid" over the same geographic area.

- more -

According to the CTIA proposal, a U.S. Numbering Association (USNA) would be established, with a Washington-based staff of approximately 10 persons, overseen by a Board of Directors comprising representatives from all telecommunications service providers. The USNA would be funded by assignment fees which telecommunications service providers would pay for new numbers.

A Board of Directors would be established, inviting representatives from each telecommunications industry segment that uses numbering resources. This would encompass Wireless Service Providers (WSPs), Local Exchange Carriers (LECs), Interexchange Carriers (IXCs), Competitive Access Providers (CAPs), and others (e.g. cable, payphone, satellite industries).

Board member selection would be facilitated by the FCC working directly with the key associations representing the specific industry segments.

A cap on representation would be established, to prevent an oversized Board. Members of the FCC could act in an advisory capacity during the formation and initial meetings of the Board. Once the USNA was fully operational, FCC interaction would be minimal.

Due to Canadian and Caribbean sovereignty issues, CTIA proposes that the USNA should administer only the number resources of U.S. carriers. The USNA would coordinate with their counterparts in other nations.

CTIA, formed in 1984, is the national organization of the wireless communications industry, both wireless carriers and manufacturers. The membership of the association has been expanded to cover all Commercial Mobile Radio Service providers, including callular, personal communications services, enhanced specialized mobile radio, and mobile satellite services.

FOR ADDITIONAL INFORMATION CONTACT: Mike Houghton (202) 736-3207

NO. 974 004



May 24, 1995

Bullding The Wireless Future...

RECEIVED

Mr. William F. Caton Secretary Federal Communications Commission 1919 M Street, NW, Room 222 Washington, DC 20554 HAY 2 / 1995

FEDERAL COMMUNICATIONS COMMISSION OFFICE OF THE SECRETARY CTIA

Cellular Telecommunications Industry Association 1250 Connecticut Avenue, N.W. Suite 200 Washington, D.C. 200. 202-785-0081 Telephi 202-785-0721 Fax

Re: E

Ex Parte Presentation

CC Docket No. 92-237 and IAD File Nos. 94-102

and 94-104

Dear Mr. Caton:

On Tuesday, May 23, 1995, the Cellular Telecommunications Industry Association ("CTIA") represented by Mr. Brian Fontes, Senior Vice President, Policy and Administration; Mr. Michael Altschul, Vice President and General Counsel; Mr. Randall Coleman, Vice President, Regulatory Policy and Law; and Ms. Andrea Williams, Staff Counsel, met with the President, Regulatory Policy and Law; and Ms. Andrea Williams, Staff Counsel, met with the following Commission staff to discuss the administration of the North American Numbering Plan:

Office of the Chairman

Ms. Ruth Milkman, Senior Legal Advisor

Ms. Karen Brinkmann, Special Assistant

Mr. John Nakahata, Special Assistant

Ms. Pam Bell, Intern

At the meeting, CTIA presented the attached documents. Pursuant to Section 1.1206(a)(1) of the Commission's Rules, an original and one copy of this letter and attachments are being filed with your office. If you have any questions concerning this submission, please contact the undersigned.

Sincerely/

Andrea D. Williams
Staff Counsel

Attachments

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DD





Building The Wireless Future.

The Administration of the North American Numbering Plan

Ex Parte Presentation May 23, 1995

CC Docket No. 92-237 IAD File No. 94-102 IAD File No. 94-104

Number Exhaustion Is A Reality for American Consumers

- 80,000 new telephone numbers are assigned daily. Two-thirds
 of the new telephone numbers go to subscribers of wireless
 services. As new wireless services, i.e., PCS and ESMR, are
 deployed, this number will increase dramatically.
- In this year alone, as many as 14 area codes are scheduled to change in North America, including Bermuda and Canada. While new codes have already been assigned in Alabama, Arizona, Colorado, Florida, Georgia, Illinois, Texas, Virginia and Washington, two more codes are being contemplated for use in California and Florida.
- New area codes, which are applied as "overlays" or "geographic splits," are forcing customers to change their dialing habits and to incur significant costs, i.e., changing stationary, business cards, etc., to reflect new telephone number.
- Several "overlay" and "geographic split" plans propose
 discriminatory assignment of numbers, i.e., requiring wireless
 customers to surrender their assigned telephone numbers for use
 by wireline telephone customers, and accept new telephone
 numbers.
- The rapid and fair distribution of numbering resources is critical to responding to consumer demands for wireless technology.

The Solution: A New Administrator of the North American Numbering Plan

- The administration of the North American Numbering Plan and the assignment of new numbering resources are of great competitive importance to all segments of the telecommunications industry.
- Since numbering resources are scarce, whoever administers them will have to deny some requests. Therefore, it is crucial that the administrator not only be unbiased, but also have no appearance of bias.
- Responsibility for the administration and assignment of numbering resources should be promptly placed in the hands of a new independent entity with a neutral governing board open to all carriers.
- Responsibility for determining the form of numbering relief should be placed in the hands of the new numbering authority, which will provide the affected parties an opportunity to develop of the most appropriate plan consistent with local needs and the federal principles and guidelines for numbering assignment.
- CTIA proposes the creation of a U.S. Numbering Association, a consensus-guided authority, to manage the North American Numbering Plan. The U.S. Numbering Association would consist of a neutral governing board for which all carriers will be eligible. It will consider the views and the specific circumstances of the affected parties and will be guided by the federal principles and guidelines for numbering assignment.

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Cellular Telecommunications Industry Association

Draft Proposal: Creation of the U.S. Numbering Association

CC Docket No. 92-237

LAD File No. 94-102

IAD File No. 94-102

Ex Parte Presentation May 23, 1995

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PROPOSAL FOR CREATING THE U.S. NUMBERING ASSOCIATION

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The USNA would be based in Washington. DC to enhance its working relationship with the FCC and the various associations representing the telecommunications industries.

2. Representation

Due to Canadian and Caribbean sovereignty issues.³ the USNA should only administer the resources of U.S. carriers. The USNA would coordinate assignments with their counterparts in other Zone One nations.

A Board of Directors would be established, inviting a minimal complement of representatives from each telecommunications industry segment that utilizes numbering resources. This would encompass Wireless Service Providers (WSPs), Local Exchange Carriers (LECs), Interexchange Carriers (IXCs), Competitive Access Providers (CAPs), and others (e.g. cable, payphone, satellite industries). Board member selection would be facilitated by the FCC working directly with the key associations representing the specific industry segments. A cap on representation would be established, to prevent an oversized Board. Members of the FCC could act in an advisory capacity during the formation and initial meetings of the Board. Once the USNA were fully operational, FCC interaction would be minimal.

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Presently, five staff members perform the NANPA functions. Each RBOC also provides staff to assign NXXs at the regional level. Considering efficiencies gained by putting all assignments into one office, it is estimated a ten-person staff could handle the assignments. An Executive Director would lead the effort. Additional research is needed to determine the specific staff responsibilities and compensation levels, and project staff growth.

CTIA, May 1995

World Zone One is composed of Bermuda, Canada, the United States and the Caribbean islands in the 809 NPA (i.e., Anguilla, Antigua, Bahamas, Barbuda, Barbados, British Virgin Islands, Carriacou, Cayman Islands, Dominica, Dominican Republic, Grenada, Jamaica, Monserrat, Nevis, Puerto Rico, St. Kitts, St. Lucia, St. Vincent and the Granadines. Trinidad and Tobago, Turks and Caicos Islands, and the U.S. Virgin Islands).

The Canadian government has established an elaborate, though often criticized process for administering their numbering resources. The CRTG, Industry Canada, and the Canadian Numbering Administrator work together and with telecommunications service providers on numbering issues. It would be best if the Canadian, U.S., and other countries would work together in international numbering strategies in lieu of the U.S. attempting to assume and/or assert control over another country's domain.

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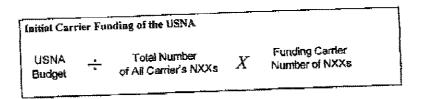
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Staffing requirements would take into account travel expectations to participate in national (INC) and international (ITU) numbering forums.

4. Funding

Funding for the USNA would be provided by the users of the numbering resources: WSPs, LECs, IXCs, CAPs, and others. With additional research, a budget would be developed to account for projected staffing, overhead, expenses, and revenue. Initial funding would be provided through assessments to carriers, based on their numbering resources in use. Regular funding for operating revenue would be derived from assignment fees.

A. Initial funding for development and creation of the USNA would be provided by the current numbering resource users and would be based on the formula below. Since the majority of work to be performed would be administering NPA and NXX codes, initial funding of the USNA would be based on the number of NXXs currently in use. For smaller carriers that share an NXX, the formula could be adjusted.



B. Regular funding of the USNA would be based upon a rate structure to be developed, and based upon a fee per number assignment. NPA and NXX code assignment fees would be the primary income for USNA. A complete fee schedule would be developed for all assignments (see list below).

Two groups under the LEC-governed Alliance for Telecommunications Industry Solutions (ATIS) have developed numbering proposals. The Industry Numbering Committee (INC) has developed NPA Relief Planning Guidelines, and the industry Carriers Compatibility Forum has developed NXX Assignment Guidelines. Pending Guidelines, and the industry Carriers Compatibility Forum has developed NXX Assignment Guidelines. Pending review, these documents could be useful in developing USNA guidelines. ATIS' governance remains LEC controlled, despite requests from CTIA to broaden its scope. WSPs have participated in drafting the current purposing guideline documents.

numbering guideline documents.

This initial carrier funding mechanism is similar to the CTIA funding mechanism for Fraud Assessments

and Health & Safety Assessments, based on member spectrum and pops.

For a simpler initial funding alternative, each USNA Board member company, or the association they represent, would pay a flat fee for the privilege of sitting on the Board.

5. Numbering Assignments

The USNA's primary responsibility would be assigning NPA and NXX codes. These, and other numbering resources for which a fee would be charged include:

- a) NPA (area) codes:
 - for the United States, Canadian provinces, and other locations.
 - N00 codes (e.g. 500, 800, 900 area codes), and
- b) NXX (central office) codes
 - in the 809 NPA, for Caribbean nations.
 - in the 456 NPA for routing of inbound international calls,
 - in the U.S.⁶ and Canada, and
- c) Carrier ID Codes (e.g. 10-XXX codes); and
- d) SS7 network codes

Other numbering assignments are currently performed by other entities representing telecommunications service providers, as noted below. Further research is necessary to determine the need and feasibility of putting their assignment under the USNA.

umbering Assignment	Responsible Entity	Length	Purpose
471777774444444444444444444444444444444	2		Identify market-level licensed wireless service
ystem identification	FCC	,	- wasnidere
SID) SN Manufacturer	FCC	3	First 3 digits of an 11-digit ESN, which
			identifies the mobile unit manufacturer.
refixes Billing Identification BID)	CIBERNET Corporation	5	responsible for billings to a particular NXX. The
Carrier Identification	CIBERNET Corporation	3	Identify wireless service provider companies.
Vumber Von-dialable numbers	none - WSPs arbitrarily assign #s to themselves CIBERNET tracks		Unique area codes, outside the range of NAN used by wireless carriers to identify mobile use of unique application, specific to the geographic markets e.g. UPS courier tablets.
Operating Company Code (OCN)	y National Exchange Carriers Association (NECA)		Identify mainly LECs & IXCs for messar routing and rating purposes. WSPs have start using OCNs for message processing with LEC
Revenue Accountin	Bill 5 Mer oggand Charleys and Lance and Land Lane 1 206 3 percent fall formance	3	Used by LECs & IXCs to identify themselves the recipient of billings, Similar to SID or BID

Because some of the numbers above are industry segment-specific (i.e. CIBERNET BIDs, and Bellcore RAOs), it would be ideal for the responsible entity to continue as the assignor. In the future however, as technologies converge, traditional industry segmentation will blur.

RBOCs presently assign NXXs to service providers in their territories. The USNA would take over this responsibility.

Wireless and landline service providers will likely be exchanging call record and billing information more frequently. This will necessitate a more uniform assignment of the various numbering codes to facilitate intercarrier routing and exchange of messages.

Summary

Multiple telecommunications industry segments now benefit from numbering assignments. The methods and entity currently employed to administer numbering resources are outdated and require immediate change.

The FCC should immediately establish the U.S. Numbering Association (USNA) to administer the numbering resources of World Zone One. The USNA would be a Washington. DC-based staff of approximately ten persons, overseen by a Board of Directors comprised of representatives from all telecommunications service providers. The USNA would be funded by assignment fees for numbering resources which telecommunications service providers require.