
In the Matter of

Numbering Resource Optimization

CC Docket No. 99-200

Connecticut Department of Public Utility Control
Petition for Rulemaking to Amend the Commission's
Rule Prohibiting Technology-Specific or
Service-Specific Area Code Overlays

RM No. 9258

Massachusetts Department of Telecommunications
and Energy Petition for Waiver to Implement a
Technology-Specific Overlay in the
508, 617, 781, and 978 Area Codes

NSD File No. L-99-17

California Public Utilities Commission and the
People of the State of California Petition for
Waiver to Implement a Technology-Specific or
Service-Specific Area Code

NSD File No. L-99-36

REPLY COMMENTS

ON

DIALING PROPOSAL FOR THE EXPANDED USE OF HEXADECIMAL PHONE NUMBERS UNDER
A NEW "industry" CLASS OF SERVICE THAT WILL ALLEVIATE THE AREA CODE
ASSIGNMENT CRUNCH AND PROVIDE SUBSTANTIAL EXPANSION OF ALREADY AVAILABLE
NUMBERS IN ALL LOCATIONS AND IN ALL AREA CODES AND ALL AT NO COST TO
ANYONE

Essentials of this document were also submitted to the California Public
Utilities Commission, In the Matter of Commission Order Instituting
Rulemaking on the Commission's Own Motion Regarding Commission Policy on
Area Code Relief, Rulemaking R.98-12-014, (Filed December 17, 1998).

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August 30, 1999

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Reply Comments to Prof Bill Neill's Hexadecimal Proposal 8/30/99 Page 1

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I file these Reply Comments on this date, in the Federal Communications Commission's Numbering Resource Optimization, CC Docket No. 99-200. This is in direct support of a separate filing by the California Public Utilities Commission listed as:

California Public Utilities Commission and the People		
of the State of California Petition for Waiver to		NSD File No.
Implement a Technology-Specific or Service-Specific		L-99-36
Area Code (PLAN)		

which seeks to pave the way for implementation of this very issue as the panacea of all area code and numbering needs for more than 100 years in the future.

These Reply Comments address the issues of the comments of some telephone companies and attend to some housekeeping and clarify a few points. Finally, the brick wall has a crack that is an Official Legal Opinion.

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It is interesting to note that all the others on this list had the good sense to say nothing, either because they did not understand it, or it did not concern them. This of course, is not the case when it comes to the phone companies, and so each did respond and all the issues they raised will be examined and dispatched with promptly, but first, bear with me as we deal with some old business.

OLD BUSINESS -

Referring to the original 140 page document:

Notice of Errors, Omissions, and Corrections -

In several places the word "plain" is mistakenly used where the word "plan" was a better choice. Please make blanket substitutions for this error, as in "The Neill Plan."

The symbol Ø was treated differently in several locations. Mostly it had a single or sometimes two short spaces attached to the right of the symbol. Readers should attach no significance to this peculiarity.

Some paragraphs were numbered for no apparent reason since only blank space follows the number. Just ignore these entirely. In some cases, every line was numbered in a table, where only the first line should have been numbered, referring to the first number should suffice.

The drawn lines over laying some number tables did not reproduce as WYSIWYG. What was intended is to show the Decimal Numbers verses the Hexadecimal Numbers so that you can see all the wasted numbers we intend to use. Paragraph 539, page 87, is such a table. Line number 540 needs to be spaced to the right, 3 spaces. The right most vertical line in the table is intended to be between the C column and the D column. Please correct this line position on your copy and observe all the waste.

NEW BUSINESS -

Definitions:

EXTRACTION - The act of extracting non-voice phone service users from the PUBLIC DECIMAL Number group. This is in contrast to the equivalent bulk act solution of creating an Overlay or Split which apply equally to all users.

BURDEN - Each area code has the same burden numbers. These are number groups that have not been assigned in the traditional sense. They include the entire 0xx and 1xx, (000 to 099 and 100 to 199, base 10) which amount to about 20% of the entire numbers; the N11 group that is

Reply Comments to Prof Bill Neill's Hexadecimal Proposal 8/30/99 Page 5

the 911, 611 and so on. Collectively, all this burden amounts to 208 prefixes, leaving 792 NXX codes available for assignment in a DECIMAL AREA CODE or 3,888 in a HEXADECIMAL AREA CODE.

The term STS is defined here, but it is not a venereal diseases!

STS - This is used to represent SERVICE and or TECHNOLOGY SPECIFIC phone system applications or services. This is the motivational segregation of several INDUSTRIES to specific areas of our number system for the benefit of everyone, including these industries. It is NOT COMPULSORY, but it will cost them some bucks not to move! This is the subject of a request to the FCC by CPUC and others, BUT PAY ATTENTION to the fact that the request WRONGLY requests STS only for DECIMAL Area Codes and still seeks to split the voice phone services: cellular vs. landline, and for that reason alone, it will fail!

INTERPRETATIONS:

It is amazing how some issues are missed or interpreted incorrectly. Here are a few:

PERMISSIVE DIALING - No term need be provided for permissive dialing since no change to the PUBLIC DECIMAL Number system is made when implementing the full HEXADECIMAL Numbering system. Users will not know the system has been modified to accept HEXADECIMAL numbers.

PROPER TERMINOLOGY - I oppose overlays! This is NOT AN ACCEPTABLE statement! We have clearly identified DECIMAL and HEXADECIMAL as significant terms that MUST BE USED in any description. Hence, I oppose DECIMAL OVERLAYS is proper! I am in favor of HEXADECIMAL OVERLAYS since these are transparent to the public, is proper! Please, people use the terms DECIMAL, HEXADECIMAL, PUBLIC, and PRIVATE, so we know what you are referring to in your writings.

INTERNATIONAL DIALING - Your friendly phone company raises the issue that Hexadecimal Dialing from South Africa is a problem of International Importance, so we will not consider the Hexadecimal proposal.

Whoa, not so fast partner, this is just not so! If someone in that or any other country with older phone switches wants to page someone in Los

Angeles, then let them pay the surcharge of \$5.00 per month to get and keep a DECIMAL PHONE NUMBER for paging purposes in LA. This has always been an option you CAN HAVE for the payment of the surcharge.

PUSH AND PULL - The whole idea is to PUSH AND PULL the STS users of PUBLIC DECIMAL numbers to PUBLIC HEXADECIMAL OR PRIVATE HEXADECIMAL numbers.

We will PUSH these users away from the Public Decimal numbers by imposing a \$5.00 per month per line charge and we will PULL these same users toward PUBLIC HEXADECIMAL or PRIVATE HEXADECIMAL numbers with the \$52.00 per year INDUSTRY class of service, paid in advance and available everywhere. Money talks, something else walks! They will move faster than hot cakes, after their first NEW bill!!!!

AUTOMATIC FINGERS DO 1+10 DIALING - Electronic Dialers and Computer Modems will carry the burden of dialing the 1+10 digits of STS applications, so the public does not ever need to dial more than 7 digits within their OWN area code!

VOICE HAS PRIORITY - Alexander invented the phone as a voice instrument and I intend to continue to support his original concept. If it is voice, it is DECIMAL NUMBER entitled, without regard to whether it is land line or cellular, PCS, analog or digital, ALL get and should keep decimal phone numbers. The STSes get the rest of the numbers, PUBLIC HEXADECIMAL OR PRIVATE HEXADECIMAL, as the case may be.

REVIEW OF ALL SUBMISSIONS

RATING SYSTEM - I have used a rating system in my teaching arena for many years, because some system must be used to deal with the multitude of information received so as to process it, and cut it to the bone, if you will, so that the true issue will emerge and then be judged on the merits.

To that end, I use a scale of -9 to ÿ to +9, where +789 is equivalent to A-, A, and A+. Then +456 is B-, B, and B+ and so on. Zero crosses minus

to plus and is used to also signal acceptance and contribution verses degradation and diminishing of an issue. Draw it out on paper!

REQUEST FOR COMMENT - Of all the issues raised in this proceeding, and I did read the whole list, I must say there is not a score over +1 in the whole bunch, except for the Hexadecimal Proposal I made, which receives a score of +7 for now and will earn a +9 when analysis and implementation is completed.

I do not say this to be rude or pompous, but to simply state the facts. There is nothing offered by anybody that even comes close to solving the Area Code problem, except for The Neill Plan!

NEW IDEAS - These gimmicks of adding an extra digit, having two digit sub area codes, and dial 1 or do not and so on, are simply without merit and pale to insignificance in comparison to the Hexadecimal Proposal, which does solve ALL the problems and eliminates the need for overlays and the offensive requirement of the public ever having to dial 1+10 digits for their voice calls located just across the street.

NANP REQUIREMENTS - Furthermore the Neill Plan is fully NANP compliant and can be implemented by the CPUC because the delegation of authority from the FCC to the state relates to STS area codes NOT prefixes or single numbers within existing area codes. The first line of attack is to start using the numbers we already have, not an STS area code which we do not need or want. Critical interpretations allow for the CPUC to do this immediately. Read the legal opinion, below.

ISSUES OF INTEREST MORE FULLY EXPLORED

PROUD TO BE HEXADECIMAL - Whatever becomes the final decision on number allocations, with 10,000 blocks, or 1,000 blocks, or individual line assignments, absolutely no problem will exist at any time in the future or now, regarding this issue and the implementation of Hexadecimal Phone Numbers. As was pointed out, we have been using the white keys on the piano and now we want to also use the black keys. The black keys represent Hexadecimal Phone Numbers. They are distributed throughout the entire number spectrum, so every provider has some Hexadecimal Phone Numbers available even under any selected plan of number allocation.

LOST SIGHT OF OBLIGATIONS - Strong feelings about preserving the concept of VOICE PHONE SERVICE should be expressed. All these other-than-voice services are the source of contamination and consumption of available numbers. EXTRACT these non voice users from the number pool and their is no phone number shortage problem at all, not now, or in the future!

== TABLE OF USER GROUPS ==

Group	User	Number set
PUBLIC DECIMAL	GENERAL PUBLIC	1,2,3,4,5,6,7,8,9,0

NOTE: No change to any numbers, the way they are dialed, or the instrument used to dial the numbers, all are VOICE PHONE SERVICES.

Group	User	Number set
PUBLIC HEXADECIMAL	ENLIGHTENED PUBLIC	ADD * AND # TO NUMBERS

NOTE: EXTRACTED from the PUBLIC DECIMAL number group, yet fully available for use by the PUBLIC, as for Faxes, Voice Mail, and Pagers.

Group	User	Number set
PRIVATE HEXADECIMAL	TECHNICAL PUBLIC	ADD HEX D,E,F,Ø true zero.

NOTE: EXTRACTED from the PUBLIC DECIMAL number group, yet fully available for use by the PUBLIC, as for Alarms, Point of Sale, Computer Modems, and ATMs, they are NOT intended to be dialed by existing phone instruments.

SOME "FOR-THE-THIRD-TIME" ISSUES - When HEXADECIMALS are in use -

- NO, you will NOT change your phone!
- NO, you will NOT realize that Hexadecimal numbers are in use.
- NO, you will NEVER have a reason to dial the Alarm line number.
- NO, you will NOT have to relinquish any existing phone number.



Sign or Logo to signal Hex Ready

BEFORE AND AFTER HEXADECIMALS

BH - Before HEXADECIMALS

LESS THAN 5% OF AVAILABLE NUMBERS IN USE

EXPECTING Overlay in all busy areas

Planning Splits in all busy areas

QUESTION ABOUT ALL MODEMS

The FCC is dealing with the users of phone numbers that is consuming all the phone numbers. Computer Modems have been identified as a major contributor to causing all the new area codes that people do not like.

With FCC about to order all Computer Modems to begin using hexadecimal phone numbers for dial up access, the question is what modems will dial the new numbers, like 3F8-CB8Ø?

All control programs will need to be changed to allow for the input of the full number set: (are not VANITY NUMBERS)

Ø(true zero),1,2,3,4,5,6,7,8,9,A,B,C,D,E,F. All modems can now dial the decimal number set: 1,2,3,4,5,6,7,8,9,0 today.

Some modems can be modified with a change in or a update of FIRM WARE, but other than that, they will or will not dial hex numbers depending on how they are wired!

I have experimented and found some will dial specific hex digits, some brands will not dial hex at all, and so on.

If a modem can not dial hex, it will cost the consumer, since a surcharge on decimal phone numbers will apply, but a discount can be had for using hexadecimal phone numbers for computer access.

Please do publish this and ask for results from users.

What do companies intend to do to up grade to full hexadecimal, or HEX READY modems? All the chips are Hex Ready.

AH - After HEXADECIMALS

Number surplus in PUBLIC DECIMAL (200% CUSHION)

No new Area Codes needed

No Overlay Area Codes Needed

No Split Area Code Needed

AS A PERCENTAGE OF THE WHOLE, WHICH HAS THE FOLLOWING FOR--

THE 310 DECIMAL AREA CODE:

Has 4096 or 100.0 % HEXADECIMAL Prefixes maxim possible, 268 million

Has 1000 or 24.4 % DECIMAL Prefixes currently 10 million decimal

Has 768 or 18.8 % DECIMAL Prefixes allowed by tradition (-burden)

Has 735 or 17.9 % ASSIGNED Prefixes in operation

Has 57 or 1.4 % AVAILABLE Prefixes in reserve, being assigned by lottery at the rate of 6 per month.

Has 6 or 10.5 % consumption rate per month. So, ten month supply?

Saying this in reverse, 7.4 % of the DECIMAL numbers are not in use.

Saying this in reverse, 82. % of the HEXADECIMAL numbers are not in use.

MIND CHALLENGE - Introducing the mind and training the mind to a different dimension is a challenge. We have all been brought up dealing

with the decimal base 10 numbering system. To be confronted with this alien HEXADECIMAL base 16 numbering system is a problem for our psyche.

Some students found it beneficial to consider HEXADECIMALS (or any other odd number base, for that matter), to be in the 4th dimension. This was their way of dealing with the fact that next to your number, say 231-1313 is the number 231-131D and so on, and this is really hard for some people to assimilate. But, I can assure you all, these numbers do exist and are usable and we need to proceed with the issues need to implement the full use of all HEXADECIMAL NUMBERS in the phone system.

COMMENTARY ON THE ISSUE

THINK ABOUT IT AGAIN - The FCC vs. CPUC issue over NANP is a non issue. All the delegation of authority from the FCC to the CPUC for STS (Service or Technology Specific Decimal Area Codes) is based exactly upon AREA CODES, not on PREFIX OR LINE NUMBER! We do NOT ADVOCATE STS DECIMAL AREA CODES. They are not needed or wanted.

The CPUC does NOT NEED any further authorization to impose the "PUSH" of \$5.00 per line number surcharge, or specify the INDUSTRY class of service, or the "PULL" of \$52.00 per year Industry phone rates. These are ALL WITHIN EXISTING POWER of the Commission, so it can and should act TODAY!!!!!!

EXPERT OPINION - Is the FCC technologically starved? Where are the consultants that are required for any binding high level technology decision. Will a decision made without extensive consultation, verifiable collection of data from professional sources, and professional opinions, withstand the potential of Court challenges citing the Trier of Fact did not have the technical expertise required to understand the ramifications of the issue and could not have been reasonably imparted such knowledge as in a 4 or 8 year applicable college degree or 10 to 30 years of applicable technical communications experience by any contribution from any party, officially or otherwise, to extract a competent decision on this issue and a sturdy ruling of law.

CONSIDER THE SOURCE - In this Rule making proceeding, we have had non-verified writings and opinions from attorney's assistants, and interns, all issued under guise of extensive knowledge, as in name and office of source. Their is not a sliver of evidence yet to be submitted in technical report form by any professional communications engineer that would meet the established standards for admissible testimony in this or any other Court of Law. If this weren't so very serious, it would be laughable. This fails the test of integrity. Would we ask the busboy to recommend the menu item, or the janitor for the course to enroll into, or the bus driver for the best opera performance! This is shocking and startling to everyone wise enough to expect that brain surgery should be done by the doctor not the staff nurse!

PERMEATES PUBLIC INTEREST - This is an issue the affects every person in this state and America, every one! This is an issue that has the public aroused, angry, and put off about poor performance by those who should have known better and are precisely the cause of the failure we are now experiencing.

WHO SAID THAT - The very nerve of the phone company suggesting that no precious and limited resources of the Commission should be spent on this issue, when in comparison, we can count nearly a dozen unworthy, self serving proceedings now in existence that pale in comparison to the importance of this Hexadecimal Issue. Double OO Info, for example!

REPLY TO THE COMMENTS

PACIFIC BELL - PACIFIC alleges that their is insufficient grounds for the Commission to initiate a proceeding to consider the HEXADECIMAL issue.

One wonders if we are all on the same planet? What we have here is the failure of the phone companies to alert and act on impending number problems that should have been known to them a long time ago. The true reason for taking little or no action is money.

The phone companies do make money from number problems by requiring additional white and yellow pages, 411 calls, error calls, and several other small but profitable results of this situation. It is no wonder

they would allege insufficient grounds, but what they really are alleging is delay, delay, delay, so they will have more time to make more money off this situation. It is NOT to the advantage of PACIFIC to fix this problem!

No one could say with a straight face that 140 pages do not demonstrate precisely the grounds for pursuit of this issue. HEXADECIMAL Numbers coupled with the INDUSTRY class of service solve ALL EXISTING AND FUTURE PHONE NUMBERING PROBLEMS, and it is all done for FREE!

PACIFIC sarcastically alleges that only the Enlightened public and the Technical public would use HEXADECIMAL Phone Numbers. This is precisely correct! The GENERAL PUBLIC will not know anything about it and will NOT be affected in any way by it, except for the new surplus of DECIMAL phone numbers it will make available as extraction proceeds to fruition.

PACIFIC points out that The Neill Plan requires the government make it unlawful to sell electronic dialers and modems that are not HEX READY. This is true and is only a cleanup fix. Many electronic dialers and modems already do dial HEXADECIMAL numbers, but this is to ensure that they all do, because we do not want to impose the problem of specific number assignments on the phone companies. Once all are HEX READY, any number will be acceptable for any use.

PACIFIC alleges that, First HEXADECIMAL Phone Numbers cannot be implemented just in California. And that the switches in some far off land, or state must both be programmed to HEXADECIMALS. There are two aspects to my answer to this issue.

As Senator Peace and two other California Senators voiced loudly in the hearing on AB818 about a month ago, and I will paraphrase, "if the FCC can't get this done, then we will instruct the CPUC to do what is right for California. Just do what is right."

I take leave to interpret this as follows:

California has a big problem and the public wants it fixed now. Looking at the call-use rates, we can ask these questions:

How many communications will be made from outside the state to inside the state that would require HEXADECIMAL Phone numbers? Very very few. We are dealing with 99.9 % of the pages originating in state and 99.9 % of the Voice Mail messages originating in state. Faxes may be about 90%. Still a very few of the above actually require the dialing of HEXADECIMAL numbers EVEN WHEN USING HEXADECIMAL NUMBERS. Re-read that!

When you go out, you program your phone to voice mail. When it gets a message, it contacts the pager company to issue you a page. NONE OF THESE used DECIMAL phone numbers, yet ALL THE ABOVE ARE HEXADECIMAL phone numbers.

Your phone number is PUBLIC DECIMAL it forwards to PUBLIC HEXADECIMAL voice mail, it issues a PUBLIC HEXADECIMAL page. Do you see that we get all the advantages with none of the problems? A caller from out of state will be calling your PUBLIC DECIMAL Phone number as always! It will do the forwarding to HEXADECIMAL services. So, your caller from out of state will never know that his call was handled by HEXADECIMALS.

In those very, very few instances where a person from some far off distant land, say South Africa, where their are diamond and gold mines, wants to page a person in Los Angeles, the person in LA simply PAYS THE SURCHARGE of \$5.00 per month for a PUBLIC DECIMAL PAGER number OR the caller dials into the above "forwarding" procedure that starts with a PUBLIC DECIMAL Phone number. What is so hard to understand about this simple concept? There is no international issue with HEXADECIMALS! Besides, in less than a year, I bet they will all allow HEXADECIMAL calls throughout the world, just as all have changed from rotary dial to tone dial. This is simply NOT AN ISSUE OR PROBLEM that rises to a level of concern we need to address.

You still can have a PUBLIC DECIMAL pager or PUBLIC DECIMAL fax NUMBER, but it will cost you \$5.00 extra and 99.9% of the public will want to save this money and will accept the five dollar "PUSH" to go use the INDUSTRY phone service with the \$52.00 per year "PULL" rate. This is a part of the EXTRACTION process that will remove or cleanse the contamination of numbers that we have allowed and must now clean up in our PUBLIC DECIMAL numbers.

Phones are primarily voice devices, we have allowed all these other services to contaminate the number base and have a price to pay to clean it up just as we as a society have a price to pay for the cleanup of contaminated water and air. Keep in mind, there is no shortage of voice numbers when we cleanse the number base of non voice services.

Just how many alarm calls or point of sale calls do you think will come from foreign nation's phone systems. How many alarm calls will come from Paris? How many from Mexico? And please do keep in mind, just as shown above, nothing prohibits the existence of the standard PUBLIC DECIMAL phone numbers to receive these calls, should they come; only \$5.00 will fix it.

The programming of all California's switches to HEXADECIMAL can be done in one 24 hour day. Notice how the phone companies did not dare mention anything about this issue of programming or costs. This is because for the first time in a long time the FCC in their hands a silver bullet. We know what it takes to make these changes and that it is in fact free. For the first time, the phone companies will not succeed in pulling the wool over the eyes of the FCC, as they did in making legitimate the \$3.50 per month call waiting charge. How in the world did they ever get this price approved?

And finally, the NANP was designed to use all the HEXADECIMAL NUMBERS as it was the brain child of the inventors, who would never have thought of not including all these numbers. There are wonderful stories written about all this and they are available at your public library.

I predict the California proceedings will simply be echoed by the FCC and all other states. We will simply be ahead of them as a result of implementing good visionary planning using HEXADECIMALS that is NANP compliant.

Mr. and Mrs. Public and all the signals in the air, take note! On page two, PACIFIC alleges that the HEXADECIMAL proposal has not been defeated by the NANC or the INC. Wonder why? Each is fully controlled and staffed by the phone companies. That is a hint, folks. Then the author goes on to say that, every state must participate in any review of HEXADECIMALS.

I bet he thinks this will take at least 6 or 7 years to do, sorry, but we are going to be up and running in 3 months, MAXIM!

This is the same old BS we have had from the phone companies over and over again. It is the same thing we had when we went to connect the dialers to the phone line, before and after the Judge Green decision. What they want is to DELAY it for as long a time as possible, yet it is something THEY INVENTED. Is this funny or what! Follow the money!

Second allegation by PACIFIC is that this requires STS area codes. WRONG! We have 268 million numbers in the 310 area code. We are not using 3 million as of today. We do NOT NEED any new DECIMAL area codes. Sorry Mr. Knox, your advisors allowed you to make a fool out of your bill and the laughing stock of the nation.

What is needed is the efficient use of the existing numbers in the area code. WE DO NOT NEED THE FCC'S APPROVAL TO USE STS in an existing area code. All of the rulings on this issue are different for two reasons:

The rulings are about an Area Code NOT about numbers within an area code or prefix as is the case here, dealing with individual numbers as in 310/456-12#4 or 310/234-F123.

The rulings are about the issue of making competing services different or anti-competitive issues. These do not exist here. We strongly urge the continued support for voice phone service to all be considered the same, landline or cellular, PCS and so on, which was the basis for the ruling being anti-competitive and not acceptable by FCC.

This is not the basis of what we advocate. The HEXADECIMAL Issue is to keep all competitive services exactly the same, competing on the same basis. All alarms in PRIVATE HEXADECIMAL Phone numbers. All Point of Sale in PRIVATE HEXADECIMAL Phone numbers, and so on.

We do not need to even single out a prefix for STS use since we have far too many numbers in existence already. The HEXADECIMAL issue is not anti-competitive and is therefor acceptable under existing FCC guidelines.

Third allegation by PACIFIC is that the public should somehow pay for billing upgrades. Not on your life! What are you saying? Your computer cannot bill 310/345-9812 vs. 310/34*-0123, that is ridiculous!

No, sir, we are not paying for anything, your income is expected to allow for all contingencies and this is one of them. We expect to reduce all phone service prices by about 50% once we get into the true costs the phone companies have snowed the Commission into thinking are real and correct.

We have switches that are worth \$300,000.00 in total and that provide service for 6 prefixes, yet you claim them to be worth \$1,600,000.00 for each prefix, or about \$10,000,000.00 and expect to receive a 10% return on this fictitious and inflated investment. I expect to be your worst case nightmare, so get ready to rumble!

Fourth allegation by PACIFIC is that in my honest speculations about dialing 911-3456 or *70-2323 or 611-9012 which I fully intend to utilize as good viable numbers under specific assignment circumstances that is consistent with full number conservation measures to be implemented immediately for the purpose of diminishing waste.

For example, we have a large number of phones in jail or prison, several million! These are used for prisoners to call out only, not ever call back allowed. So let us assign these phones numbers like 911-5567. These are perfectly good numbers that amount to present day thinking as the burden numbers. I intend to refute such a claim by putting them to good use.

BURDEN numbers are the numbers subtracted from the 10 million decimal numbers or 268 million HEXADECIMAL numbers in an area code. I will expect to use 092-1234 and 123-4567 and 911-0923 and 611-2345 in a plan to be presented later. We must eliminate burden numbers as much as possible.

Commission has the power today to implement HEXADECIMAL numbers. What better use of our tax resources is there than to solve the most pressing communications problem ever to face the Commission. This is the very

issue we should be addressing and devoting resources to; solving this problem is number one.

Fortunately, this is the final solution. We will never again have a number problem once the HEXADECIMAL solution is in place. Think about it! In California, we have 40 area codes with 268 million numbers each and only 30 million people in the state. That is 10,720 million numbers today. We already have 357 phone lines per person, dog, cat, rat, and fly in California and you still want more! Why?

For the reasons above, the Commission should expedite the initiation of proceedings to implement the HEXADECIMAL proposal.

REPLY TO COMMENTS

General Telephone - General alleges existing network modifications. You must have been under a rock for so long that you just do not read the information.

The alarm industry has been and still does today, transmit HEXADECIMAL codes over the network every day, all day, and they have done so for the last 30 years. All this stuff is DTMF and is well established and settled. What part of the network don't you understand?

The CPUC will institute HEXADECIMALS as the solution to California number exhaust issues. This will not cause any more than 1% of the calls world wide to have any problem, and that 1% will be fixed in days by establishing the need for and getting a DECIMAL phone number. This is simply not an issue.

General alleges that Neill's proposal is not well developed, or not sufficiently well explained. Please read your homework assignments before you write about a 140 page document that is getting rave reviews!

Would you know a HEXADECIMAL if it bit you? No conversion of DTMF equipment is required, since it already encodes and decodes ALL the signals in the base 16 system. You can not purchase one that does not

perform this full function. Consumers do not have DTMF equipment, GTE does, so how is this a burden on consumers?

Here we go again. This international issue is not an issue. No alarm call is going to be made to the 310 area code number from London. But if such is to be the case, they can get a DECIMAL Phone number. Note that all voice calls are not changed in number or accessibility, world wide.

Hexadecimal consideration through national forums. This is not a reasonable approach, because every national forum, such as INC and ATIS and national industry involvement is fully under the control of the phone company, and no consideration will be given to any proposal by these forums. Forget it! Nothing will ever come of your proposal if you submit it to these forums. They are best characterized as a "black hole" from which nothing ever emerges.

ARSENAL OF POWER

POLITICAL ISSUE - We find again the misguided workings of Assembly member Wally Knox and now he has further entangled Speaker Antonio Villaraigosa in his legislative attempts to produce bad law. When will these elected officials get competent engineering advice? Do they have any communications consultants with at least 10 years experience available to them? We all know the answer is no!

It is a shame to see these misguided attempts based upon faulty information and the failure to get educated about this subject. They have become the laughing stock of the industry over just the most ridiculous statements and actions.

They think putting pagers and faxes in a DECIMAL Area Code will somehow effect the 310 exhaust situation. Nothing could be farther from the truth and they have been told about it and choose to do nothing about their errors. Well, you did elect them!

OFFICIAL LEGAL OPINION SHEDS NEW LIGHT ON THE HEXADECIMAL ISSUE - I have sought the advice and council of CPUC Senior Staff Attorney Helen M. Mickiewicz on the issue before the FCC relating to the Service and or Technology Specific Area Code assignments. Refereed to as STS, this is a Reply Comments to Prof Bill Neill's Hexadecimal Proposal 8/30/99 Page 20

decision based upon the placing of cellular phones in a specific area code. It was deemed anti-competitive and ruled against by the FCC. I completely agree!

I strongly support the designated primary goal of the phone system, which is to provide VOICE phone services. All voice services are the same in this view. All non-voice services are secondary. I am advocating the placement of STS services in HEXADECIMAL phone numbers within an existing DECIMAL Area Code, such as 310/234-F123 or 310/667-*441. None of these STS services includes voice phone services. All are the contaminating services we need to purge from the PUBLIC DECIMAL Phone number base so as to free up numbers for voice users.

I feel very strongly about encouraging people to make their own statement, but I shall report on the expressed legal opinion of Senior Staff Attorney Mickiewicz that HEXADECIMAL Number implementation would not violate the FCC ruling on cellular or other voice based services and is therefore within the power of the CPUC to institute immediately. A very reasoned idea that will solve the pressing number availability problem in California.

SIDE NOTE- The present request to the FCC for a waiver for the STS services is wrong and should not be granted. The idea is the same as the AB818 idea of Knox and it too is wrong. These both seek to create a new DECIMAL AREA CODE to move the alleged offenders into, but that does not solve the problem, it just moves the problem, and since the NANP is low on DECIMAL Area Codes, it will fail to solve any problem, but will add to the confusion and bring further dissatisfaction on the public.

In contrast, should the FCC agree with the Neill Plan, and order the unrestricted application of HEXADECIMAL numbers, all issues are solved and it is ALL for free.

ACTION ISSUES - Criteria: standards to be used in discussions, can you ask questions, can you get answers, try these:

VOICE - All voice phones, land line, cellular, PCS, analog, and digital are the same product and SHALL not be discriminated against by being singled out or placed in special areas or special number groups.

(PUBLIC DECIMAL, same as today)

PAGERS - All pagers MAY be placed in special number groups.

FAXES - All faxes MAY be placed in special number groups.

(PUBLIC HEXADECIMAL)

POINT OF SALE - All SHALL be placed in special number groups.

ALARMS - All SHALL be placed in special number groups.

COMPUTER MODEMS.- All SHALL be placed in special number groups.

(PRIVATE HEXADECIMAL)

IN PERSPECTIVE- by the year 2000, January 1st:

What is the root cause for number exhaust?

Failed or no practice of conservation of numbers. (1010288, 00, *70)

TIME TO FIX: 1 day, benefit in 3 months

Assignment of blocks of 10,000 numbers to providers. (AT&T 310/234 ten thousand lines, only 5 lines used)

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Failure to use the entire number set, resulting in less than 50% assignment. (HEXADECIMAL number set, I warned of situation in 1984)

TIME TO FIX: 1 day, benefit in 6 to 12 months

Failure to understand loyalty to number. (will not move to new numbers just to do business with new provider - no real competition - a public failure)

TIME TO FIX: 1 day, benefit in 6 months

Misplaced understandings about large number consumers, especially by politicians.

TIME TO FIX: 1 day

No need to dial 1+10 digit numbers for VOICE PHONE calls. No overlays of PUBLIC DECIMAL AREA CODES, overlays of HEXADECIMAL AREA CODES.

TIME TO FIX: 1 day, benefit in 6 months

(can you add to the list?)

THE IDEA IS TO MOTIVATE CERTAIN USERS TO MIGRATE TO HEXADECIMAL NUMBERS, FREEING UP DECIMAL NUMBERS FOR PUBLIC USES.

READER'S NOTE- Please keep in mind, as late as 1 year ago we had on TV, before Congress, sworn statements of some 15 tobacco industry executives attesting to the fact that tobacco is not addicting. Are their motivations any different from those of the executives at the phone company on testimony of what can and can not be done; how soon and what it will cost? Think about the money..., now, follow it!

LOADED QUESTIONS YOU SHOULD BE ASKING ON THE RECORD-

I had toll free 800 service in 1970. The phone company required that I use the number they selected. Some years later, I could select any number from their provider number group. Today, I can select any number from any provider, no restrictions at all!

Question 1: We are all being told that numbers must be assigned in blocks of 10,000 and some argument is occurring about changing to 1,000 size blocks. Why aren't numbers being assigned in exactly the same way that toll free numbers are assigned today, INDIVIDUALLY one at a time.

I have yet to hear a reasonable explanation. How is it possible for anyone to have confidence in some cooked up story that it creates a problem for the computers. What a crock! If they can do it for toll free numbers all across the nation, then they sure can do it right here, today, right now with existing computers.

Why is it that the FCC has taken no action? The solution is to immediately begin using hexadecimal phone numbers, WHICH IS WITHIN YOUR ESTABLISHED POWER, and is FULLY NANP COMPLIANT!

In a DECIMAL area code, using only DECIMAL prefixes and line numbers, you have a maximum of 10 Million phone numbers (less burden), but in a DECIMAL area code using HEXADECIMAL prefixes and line numbers, you have a maximum of 268 Million phone numbers (less burden).

You can clearly see an immediate 258 Million number advantage in the 310 area code all at no cost and available now, as we speak! No OVERLAY, no SPLIT, just plug in and use, already paid for 20 years ago. No 1+10 digit dialing for phone numbers, only 7 digit dialing, and it will last for 100+ years!

REPORTING THE FACTS - I am being interviewed by newspapers and magazines and will be speaking before several organizations in the coming weeks and have NO CHOICE but to point out that the FCC has repeatedly been informed of the solution, but still takes NO ACTION within Commission rules:

Has not initiated a new forum as in rule making or investigation for the INDUSTRY CLASS of phone service.

Has not begun a HEXADECIMAL APPLICATIONS investigation or rule making forum to establish the extent to which the solution is available and where it can be implemented.

Has not requested government action on ELECTRONIC DIALERS or MODEMS or initiated a rule making or investigation forum to define the specifics for this required legislation.

YOU MUST REALLY LIKE DIALING 1+10 digits for EVERY CALL! If you don't then try asking and DEMANDING answers to these questions!

COMMISSION HAS POWER - The Commission can and should, act to relieve the problems associated with the 310 DECIMAL Area Code. The existence of some 57 unused DECIMAL prefixes and the complete technological solution represented by HEXADECIMAL Numbers is far enough along to be pushed into service on an emergency basis. This whole solution could be on line in 3 months. Several industries can move in less than a month, freeing up DECIMAL numbers for GENERAL PUBLIC uses.

ORDERS INSTITUTING RULE MAKING - I urge the Commission to immediately issue 3 new Orders Instituting Rulemaking, separating these issues into the following parts for faster addressing of the urgency of this issue and also urge using electronic filing, these should be placed on the URGENT FAST TRACK system:

INDUSTRY class of service - This is an undertaking that must be examined by rate analyzers and others. I suggested \$5.00 per month per line surcharge as the push element and \$52.00 per year, paid in advance as the pull element. This is a powerful motivation that will start the ball rolling and it is nearly identical to the Cox Communications phone offerings already in existence today and offered in America.

GOVERNMENT - We must demand that every electronic dialer or computer modem product, that has the ability to dial into the phone system, shall be capable of dialing all the hexadecimal digits and that in the process, standards for reducing false signals and authentication be incorporated into the designs being enacted by this law. This does NOT apply to table top phone dialers since they are for voice service and will be dialing PUBLIC DECIMAL and PUBLIC HEXADECIMAL Numbers, only.

SERVICE AND TECHNOLOGY SPECIFIC - Identification of the numerous participants that fall into this classification and establishing exactly where to place and provide for each is urgent and must proceed with haste. Some electronic dialing devices can today, dial only specific hexadecimal numbers, others can dial all or none. Each must be identified and provided for, so as to produce the minimum burden on the public and business during this transition time. No other relief or grandfathering is to be permitted.

FAR REACHING RULING AND ORDER - The decision of Judge Green changed the face of phone service forever. Initially, it was reported to be the beginning of the end and that major destruction of the phone network would result. All this was proven completely wrong, it amounted to nothing more than saber rattling! Today the very system reported to be in such dire straits is far better for the decision and so is America and her public phone system.

COMMISSION - Decision by the FCC to move on HEXADECIMAL proposal is urgent and is recognized as being only a part of the overall solution to the present phone number crisis's, but it is the most far reaching of all the issues before the Commission and will have the best returns in the future yet to come.

The H E X A D E C I M A L Phenomenon

IDENTIFICATION OF ISSUES - The problem faced is that we have allowed the primary purpose of the phone system to become faded. The primary purpose is to provide voice communications. Any and all voice is the same, landline or cellular, wireless, all are the same in the eyes of voice communications AND I predict the FCC will steadfastly hold this to be true, upholding their position on competitiveness. All other phone system uses, no matter how seemingly important to our daily lives, are secondary to this single use.

COLLAPSE OF NANP - Will the exhaust of several systems combine to cause the monumental collapse of NANP? It has been proposed that we are indeed facing the very real possibility of a full blown disaster due to several issues failing at or near the same time. The costs are staggering. Some estimates are in the \$150 billion dollar range, so you know this will more than double in truth to OVER \$400 billion dollars when all is said and done.

CALL IT CONTAMINATION - What we have is a monumental case of contamination, pure and simple. It is no different than the dirt in our water or air. We have the obligation to take the steps required to cleans these contaminants, now it would seem, on a very urgent basis.

DECIMAL NUMBER AVAILABILITY - If we had no non voice services, their would not be any issue about number shortages. So how do we create this situation? It is possible to extract or move all the contaminants out of the DECIMAL phone numbers and into the HEXADECIMAL phone numbers with very little effort and remarkably fast, too.

IMMEDIATE RELIEF - Some users, now branded as contaminants, can move very fast. For example: Alarm Industry. Those that use the up load and down load alarm systems are immediately accessible. They can be programmed remotely, and within a 3 day period, one can move over 1,000 units out of DECIMAL phone number usage and into the HEXADECIMAL phone number usage. This statement does depend upon the specific brand of equipment in use and may involve the reloading of firmware and changes to software, but on the whole, it does accurately reflect the situation. Older alarm units will be less cooperative, but each can be re-pointed

toward HEXADECIMAL phone usage or linkage, one way or the other. Even older "prom" controlled electronic dialers can be "burned" to dial HEXADECIMAL numbers.

It is common practice for the alarm industry to use toll free 800 numbers as the primary target phone number for communications of alarm signals. But we have to look beyond the obvious to see the hidden activities that will reveal the true picture.

1. The premise is the place where protection is being provided and this is the location where the alarm signal originates. It may be done by electronically dialing out on a private line or on a shared line at the residence or business. Dealing with the private line situation, we can easily see the need to simply change this number from DECIMAL to HEXADECIMAL, an act required of the phone company. Changing a phone number in this situation is identical to changing your residence or business number, today!

2. If this alarm dials a toll free number, it can be changed from a DECIMAL phone number to a HEXADECIMAL TOLL FREE phone number.

3. If the toll free number translates to a pots number, it can be changed to translate to a HEXPOTS number.

Here we can see the involvement of three DECIMAL phone numbers, each of which can be changed to HEXADECIMAL phone numbers. In number 1, we have the opportunity to simply change the phone number on the dedicated line. In number 2, we have the opportunity to open up the toll free numbers from area code 800 to area code 8FF for alarms and other uses. And in number 3, we can change the translated number to Hexpots.

Notice that changing the dedicated line in number 1 and in number 3 does not even require the involvement of the alarm company in most instances, because these acts are transparent to the system, but do remove the contamination we seek to eradicate.

In number 2, we have long held the idea that 8FF and all the other HEXADECIMAL phone number area codes are valid and should have been introduced long ago. Had this been done in 1984, when I first proposed

Reply Comments to Prof Bill Neill's Hexadecimal Proposal 8/30/99 Page 27

it, we would now have highly populated HEXADECIMAL phone number area codes and far, far less contamination of the voice DECIMAL phone number area codes. In short, no emergency would exist at all, no exhaust of any area code would exist today!

WHAT IS ALL THIS ABOUT THE IMPLEMENTATION IS TOO INVOLVED - Now that is a good one! It is a crock! It is wrong! Let me set the record straight, once and for all time.

The originating call switch is a computer, located in a switch room, a building centrally located to serve your phone needs for the surrounding community. This computer is HEXADECIMAL! It was built that way! It can not be made not HEXADECIMAL, because you can not address the decimal digits, 0 to 9 without using four bits in a byte. Since you have to use four bits in a byte, you have immediately got all the rest of the bits available for use, automatically, to make the HEXADECIMAL digits we are talking about.

To say it another way, using 4 bits, in the 8421 configuration, you can see that to get a 9 you MUST use the 8 and 1. Their is no other way to do it, and since this is the case, continuing on with the count, we have the HEXADECIMAL digits for free. We can not escape this available and dearly needed windfall.

At the present time, all this is hidden and not accessible, but all that is needed is to do minor surgery on the control program that runs the switch computer. I have spent a lot of time on this subject including a simple example that shows the process to be child's play, that takes less time to fix than it took me to type this paragraph. And the single fix is good for all phone computers, in all switch rooms in America, and it can be completed in just one 24 hour day. Once completed, all switch computers will allow HEXADECIMAL phone number dialing to local and network numbers.

Then we have the claim that the network is not compatible. What a crock! The network has been carrying HEXADECIMAL numbers for over 30 years. I cite the Alarm industry as proof and any claim of incompatibility is just simply unfounded.

Now, we have the destination call switch, which is a computer, located in a switch room, a building centrally located to serve your phone needs for the surrounding community. This computer is HEXADECIMAL! It was built that way! It can not be made not HEXADECIMAL, because you can not address the decimal digits, 0 to 9 without using four bits in byte. Since you have to use four bits in a byte, you have immediately got all the rest of the bits available for use, automatically, to make the HEXADECIMAL digits we are talking about.

This receiving call computer can address HEXADECIMAL phone numbers, line cards and lines with the same ease as the originating computer, above, created the call digits in the first place. So, where is the alleged problem? Don't know, it simply does not exist, except in the minds of those destined to oppose this fine and simple fix we all paid for more than 20 years ago.

Then there is this question about NANP compliant. Come to find out, the specification is just that 3 digits are for the area code, 3 digits are for the prefix, and 4 digits are for the line number. Well fine, this is exactly what we have using HEXADECIMAL phone numbers, so we are indeed, NANP compliant!

I just found out: Florida uses 100 number blocks and has for years and wants to change to ITP (Individual Telephone Number Pooling, same as is used today on all 800, toll free numbers) Also, they did a survey and found the actual number usage's to be 27% to 41% or an average of ONLY 1/3 or 33% of the numbers are in use!!!! YET, NANP declared emergency for creation of yet another NEW AREA CODE!!! WHO WORKS FOR THE PUBLIC?

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IF THE CPUC is one of many state commissions under tremendous public pressure to "DO SOMETHING" about the numbering problem, as Helen M. Mickiewicz of the CPUC wrote to the FCC, then what is the reason for this inexcusable delay by you? Why hasn't the CPUC explored every possible solution to this problem?

Action Issues - can you ask questions, can you get answers, try these:

CRITERIA- standards to be used in discussions:

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POINT OF SALE, ALARMS, ETC.- All SHALL be placed in special number groups. (PRIVATE HEXADECIMAL)

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What is the root cause for number exhaust?

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5. Misplaced understandings about large number consumers, especially by politicians.

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6. No need to dial 1+10 digit numbers for VOICE PHONE calls. No overlays of PUBLIC DECIMAL AREA CODES, overlays of HEXADECIMAL AREA CODES.

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YOU MUST REALLY LIKE DIALING 1+10 digits for EVERY CALL! If you don't then try asking and DEMANDING answers to these questions!

WHAT ABOUT THIS - I have major discoveries to report:

Florida - has number assignments in 100's not 1,000's or 10,000's, and has for some time! They point out the immediate need for INP pooling, Individual Number Pooling, which we know exists, since all toll free 800 uses INP and has for years.

NO Carrier will be able to sell services without the ability to provide the "number I want" NOT necessarily in the "number group" they have to assign. So, no real, REAL competition exists without INP! Any claim is figment of imagination. of CPUC and FCC.

Usage Surveys report the use rates are from 27% to 39% averaging at 1/3 or 33% for ALL exchanges, still NANPA declared urgent need for new Area Code!!!!!! Clearly, they work for the phone companies, NOT the public interest! No justification exists for all calls being 1+10 digits, it is an administrative requirement of FCC, not technical need! 619 is next in line!

Avoid overlay as it presents many more problems than splits.

Demand uses of Hexadecimal numbers for non voice applications, keep all voice applications in priority one position, landline and cellular are alike! Extract contamination of voice services numbers by alarms, computer modems etc. and use some of the 258 million never before used numbers available today in every area code.

A New and Interesting Idea -

CALL TYPE DISTRIBUTION A REALITY - At long last no more need for multiple phone lines! I propose the additional use of a single
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HEXADECIMAL digit, being sent between the first and second ring, as caller ID is sent now, but in addition to it, for the purpose of controlling the new "CALL TYPE" distribution box, proposed to be on the wall at your home or business.

This is the missing link to being able to do all these things we have always wanted and the utilities will pay a very small part of the service fee for never having to come to your home to read your meter.

Note that lots of very good things become available with the CALL TYPE IDENTIFIER as it DIRECTS the call and allows for simultaneous and multiple uses of your single phone line, AT LONG LAST, the beginning of no more need for several phone lines, where one well used line, will work just fine. This will allow you to receive a voice call when on line with your computer. Is fully compatible with call waiting and NANP.

If the digit is a: (16 selections) PROGRAMMABLE BY YOU!

CALL TYPE DISTRIBUTION (In Calls/Out Calls) (OD=ON DIAL, ND=NOT ON DIAL)

IDENTIFIER DIGIT	TYPE DISTRIBUTION
Ø ND	for Computer Modem
1 OD	for Regular home or business call
2 OD	for Bob, ONLY his phone rings with caller ID
3 OD	for son, ONLY his room phone rings with caller ID
4 OD	for son, Tom in Texas, preloads 1-215 to number
5 OD	for Mom
6 OD	FOR 424 AREA CODE CALL, preloads 1-424 to number
7 OD	FOR 310 AREA CODE CALL, preloads 1-310 to number
8 OD	for FAX
9 OD	for home business, ONLY it rings with Caller ID
A OD	for Call forwarded to Cell Phone
B OD	for Dad's pager OR voice mail
C OD	for Mom's pager
D ND	for reading electric meter
E ND	for reading gas meter
F ND	for reading water meter

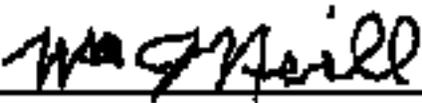
I made this table for in calls, but as you know, they must be made somewhere, by someone as out calls, and I have mixed in some out calls to show how they would look. So this shows an idea in place as an out call with the digit 6 or 7 appended to the number dialed as needed.

This is NOT A PART OF THE SWITCH AND IS THEREFORE, NOT CPUC OR PHONE CO DEPENDENT, but is part of the box on the wall, that is provided by a private company, that complies with attachment requirements. Same Idea with table top phone dialer

Keeping out of switch is very important to the success of concept, and allows real fine tune, for example, Son is in Texas and I call, now I can call only the 7 digits or even less and add, say # to short code, like 23# where 9184459082 is substituted and call is placed as is done now with all PRIVATE pay phones. They memorize the number you want, then after you pay, it gets switch dial tone and re plays the number to it for completion.

Electric utility has expressed interest in this type of meter reading.

SUBMISSION - These REPLY COMMENTS are Respectfully submitted,



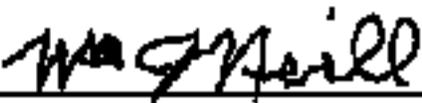
Prof Bill Neill, In Pro Per
PRIVATE Citizen, Professional Engineer
P. O. Box 33666, San Diego, California 92163-3666
Telephone: 619/231-1313, Email: proev@mill.net

Pro Per Attorney for
Prof Bill Neill

Dated: August 30, 1999

VERIFICATION

I swear that the information provided herein is true and correct to the best of my knowledge.



Prof Bill Neill

August 30, 1999.

CERTIFICATE OF SERVICE

I hereby certify that I have this day served the document titled:

REPLY COMMENTS ON DIALING PROPOSAL FOR THE EXPANDED USE OF HEXADECIMAL PHONE NUMBERS UNDER A NEW "INDUSTRY" CLASS OF SERVICE THAT WILL ALLEVIATE THE AREA CODE ASSIGNMENT CRUNCH AND PROVIDE SUBSTANTIAL EXPANSION OF ALREADY AVAILABLE NUMBERS IN ALL LOCATIONS AND IN ALL AREA CODES AND ALL AT NO COST TO ANYONE

on the Federal Communications Commission by each of the following identified methods:

ELECTRONIC FILE VIA INTERNET:

By electronic transmission of file copy, in Macintosh MSWord format, labeled and addressed to

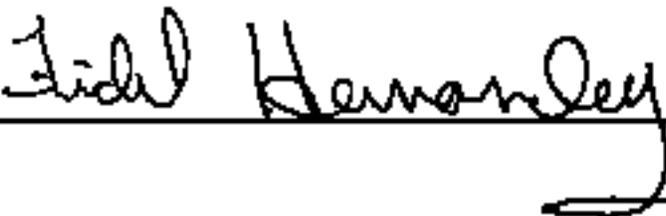
<<http://www.fcc.gov/e-file/ecfs.html>>.

the electronic address for the Clerk of FCC.

ELECTRONIC INTERNET:

Collections contained herein should be submitted to Judy Boley, Federal Communications Commission, Room 1-C804, 445 12th Street, S.W., Washington, D.C. 20554, or ELECTRONIC via the Internet to <jboley@fcc.gov>

Executed on August 30, 1999, at San Diego, California:



A handwritten signature in black ink, reading "Fidel Hernandez", is written over a solid horizontal line. The signature is cursive and extends below the line with a long, sweeping tail.

Fidel Hernandez

ACKNOWLEDGMENTS AND CREDITS

In recognition of the civic duty of these companies and individuals that have contributed to the success of this adventure and deserve credit for doing their part, above and beyond the call of duty, the author wishes to thank:

Macintosh Quadra 840 AV by Apple Computer, without their intuitive interface we would all go nuts.

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