

based on the population and the natural geography and phone service requirements of the area.

466. As it stands, either Palm Springs or North San Diego county will get yet another new area code, as time goes by, more business cards and yellow pages and other expenses, as unnecessary as can be in view of the simple alternative of using HEXADECIMAL phone numbers to relieve the decimal use consumption rate in these areas.

467. PUBLIC HEXADECIMAL NUMBER PERMUTATIONS OF * AND # - These two designated HEXADECIMAL Number symbols, * and #, will permutate in the designated sector phone numbers at all levels: area code, prefix, and line number. There is no use significance between * versus #, and they are used here interchangeably, but do keep in mind they really are Hex B and C.

468. For example: Using this decimal number 1-213/456-7890, we can show all possible variations as 1-#13/*56-#890, 1-2*3/4#6-7*90, 1-21*/45#-78*#. As you can see, there are a lot of possibilities, some of which do not lend themselves to overwhelming public acceptance. But keep in mind the power we have here. Using either of these symbols in the area code produces 283 million new numbers, as in 21*/233-5678.

469. Putting this area code in Los Angeles, as a wide area overlay, will require users to always dial the 10-digit number. But, since the vast majority, by far, are reached by computer dialers, as a result of calling a 7 digit decimal business number, with no answer, then reaching their Public HEXADECIMAL voice mail number and leaving a message and or a toned number to return the call to, which upon call completion, the voice mail now automatically calls the Private HEXADECIMAL Pager number to leave a page. All this is done automatically, today! The use of these numbers is nearly transparent to the public, but today, no conservation of numbers is being observed.

470. In this example, Joe's Bikes number is 466-2345 a decimal number in Hollywood. A caller from Beverly Hills calls this 213 number by dialing

just 466-2345, since it is local call. Since Joe is outside his store and does not hear the phone ringing, his voice mail picks up the call.

471. The voice mail Joe uses has been programmed by him, into his phone and is a Public HEXADECIMAL Number, 45*-9012, the caller is transferred and the voice mail recording is played. The caller leaves both a recorded message and also uses the provided option to leave their number for a return a call, by toning in 223-8834, and then they hang up.

472. The voice mail now recognizes that both a recorded message was left and that a toned number was left, so it communicates with the pager company using a Private HEXADECIMAL Phone number, and the number to return a call to is transmitted to Joe's pager for him to take action.

473. When Joe signed up for his voice mail and pager service, he was assigned the Public HEXADECIMAL Number, 213/45*-9012 that he is to use for voice mail by the company (voice mail company has a block of 1000 numbers). The company programmed the pager's Private HEXADECIMAL Phone Number, 21*/782-5567 into their computer (the pager company has a 500 number block) and gave Joe the pager he is to carry. Joe DOES NOT KNOW the Private HEXADECIMAL Phone number for his pager, because he will never use it and would have no reason for knowing it, since it is transparent to his communications system.

474. In this scenario, we went from Public Decimal (7 digit Customer) to Public Decimal (7 digit Joe), to Public HEXADECIMAL (10 digit Joe's Voice Mail) to Private HEXADECIMAL (10 digit Joe's Pager). The public never new any Public or Private HEXADECIMAL Numbers were even involved, not at all!!!! The public interest is best served by keeping these computer-dialed numbers, presently decimal numbers, from being used. It is no problem at all for the computers to dial 10 digit Public or Private HEXADECIMAL numbers; we humans just don't like so darn many numbers!

475. COMPANY CURIOSITY CONFOUNDS CALLING - Did you know several big chain store operations just can't wait for their store manager to mail in

the report on sales. We are having a sale on Big Macs! Raise the price of unleaded gas!

476. At some later time, possibly during the wee small hours of the morning, the computer in McDonalds Chicago Corporate office and the computer in every single McDonalds store communicate. They strike up a conversation of bits and bytes to share the day's sales information. Each can and should be using Private HEXADECIMAL Phone numbers for their phone communication. No reason exists for the use of a Public Decimal Phone number. It simply wastes numbers that the public wants and needs to be able to use. These computers have no problem dialing Private HEXADECIMAL numbers, even when they are 10 digits long, and look like this: 21E/5F3-CC3D! Its automatic, folks.

477. And this goes on for every big and even some small business. Every day and sometimes several times a day, they have a computer to computer conversation on the phone network. Multiply it out, how many thousands of lines could and should be Private HEXADECIMAL Phone Numbers? Just as a guess, I suppose there are about 30% of the decimal numbers in use today in America that should be moved from Decimal Phone Number applications. That would free up a lot of area codes for Public Decimal uses!

478. FOREIGN COUNTRY RELATIONS - We have a very good neighbor to our North, Canada! But it is still a foreign country. Yet it uses our area codes.

479. No, don't think I don't love these wonderful people, but let there be no doubt about it, the Canadian border guard demanded that I show my \$204.31 in cash; and that was all the money I had to go to the World's Fair. It was my first realization that Canada remains a foreign country, no matter how cozy we may all be as people.

480. The complexities of this should not create an international incident, for us or them, but it is a fact that included in any

consideration we may make, are the several area codes they use that we can't use. This is an issue that cannot be ignored any longer. Clearly this is a matter for federal consideration, but it does affect California in that when NANP exhausts in less than 20 years, we could suffer the lack of available area codes for use by us. Our legislature and or Public Utilities Commission needs to go on record with these concerns and demand federal action now. Even if this issue were to be debated commencing today, it would take years, 4 or 5, before effective action was commenced. Then it would take still more years to realize the benefit we seek. As I have said before, this is like a savings account, it is too late to begin it, when you really need it. So, demand action by our elected officials now, so when we really need it, the problem will have already been solved some time earlier.

481. end

482. COMPETITOR NUMBER ASSIGNMENT BLOCKS CAN BE INDIVIDUAL NUMBERS - It is another fraud on the public by the phone companies, when they tell us that competitors must have number blocks assigned in 10,000 line blocks. Furthermore, it still is fraud when they reluctantly agree to 1,000 number blocks. Why not realize, I have no intention of changing my phone number to change my PSP (phone service provider) for you or anybody. The investment in goodwill and image is too great.

483. This is the same song and dance we had with toll free numbers several years ago. Today, the phone company can and should be compelled to allow all phone companies to offer PSP for any individual phone number anywhere, period!

484. end

485. NAY SAYERS AND OTHER SNAFUS - Expect a barrage of responses to this Proposal, but just consider the source, and you will know of the reason for the response and just how much truth is behind it. I point out this in advance to thwart their dastardly deeds.

486. Here are some tantalizing tidbits of failed philosophy. As a

young boy, it was my job to mix the yellow in the gray margarine. We were all told about the ills of doing this, but they were found to be unfounded. Then we had the long delay in dialing our own long distance numbers, again a fabrication by the phone company to keep human operators in service, and profits up. More recently, we were all told of the many fires that would be occurring if we pumped our own gas. I don't remember reading about all those fires. Finally, the Phone Company was demanding that we had to use their interface to protect the network from the equipment we were connecting. This too, has gone by the wayside. And, direct connections are to be Industry standard.

487. So what will be the fate of HEXADECIMAL Phone Numbers. By Galilee, you've got it: they will try to smoke screen us with all the trumped up reasons for why it won't work, but now you know better! You can cite the alarm industry as a success story. They have been transmitting over the standard telephone network, HEXADECIMAL Digits for the last 25 years, with no problem, none, nada!

488. LOBBY MONEY - PHONE COMPANY IS SECOND IN AMOUNT AND FIRST IN LINE - With their money in hand, our officials are dare I say this, bought and sold. You can be sure lots and lots of cash will be waved in the faces of our innocent officials to frame this debate as sour grapes, and promoting the status quo as the only alternative.

489. Do you remember the guts it took for Judge Green to order the brake up of the phone company monopoly? This is the kind of leadership that it will take to solve this problem. Are you up to the challenge? Will you demand nothing less than action now? Time will tell. It's not over till the fat bell rings.

490. End

491. DISOBEDIENCE IS PREFERRED TO SUBMISSION - Will our officials risk stepping out of line, disobeying the power of the Federal Communications Commission? If we were to advocate some out in left field action, like adding a 4th digit to the prefix or area code, which would

render the entire system in cacaos, then I would not support that action.

492. This Proposal does not conflict with the NANP, it supports it fully. Compatibility is fully maintained. We just demand the expanded use of what we all paid for a long time ago: all 16 digits. Public HEXADECIMAL Phone numbers are all dialable by all phones in America, save pulse dials. Rotary dial phones can not use pagers or voice mail systems, so what is the reason for even suggesting that a problem exists with using PUBLIC HEXADECIMAL PHONE NUMBERS that use buttons already on every dial, today!

493. As far as lobbying our officials, I can report no luck. The emails, letters, and phone calls, all go unanswered or I find that I am speaking to an intern that has no idea of what I am advocating. To this day, I have yet to receive a response from the CPUC or FCC that addresses this issue by a competent author.

494. I am pleased to report the office of U. S. Congressional Representative Brian Bilbray, through his capable assistant Pat Baker, has really gone to bat on this issue. I could not have expected more from them, yet I am very disappointed with the rest of our elected officials. You must let these people know about your newfound knowledge about this issue and demand action from them, now!

495. SIGNAGE AND OTHER PUBLIC DISPLAYS - I for one, do not believe in the idea of phone companies spending the subscriber's money for signage on buildings and so on. We have the right to the lowest service costs and these expenses contribute to unnecessary costs. I have been to the executive offices of Pacific Bell in San Diego. If the general public were to see the opulence, extravagance, and spacious facilities where no cost was spared, they would be up in arms and would be mad as hell about it. This shows the lack of in-depth perception of the management of the phone companies by the agencies charged with insuring the lowest rates possible for the services they are to provide.

496. Announcements about Public Decimal Numbers, Public HEXADECIMAL Numbers, and Private HEXADECIMAL Numbers are entirely proper and should be made and displayed at conventions and other trade shows so the attendees can learn about and participate in the benefits this Proposal brings to their particular industry.

497. SECURITY AND HEXADECIMALS - Unlike the attitudes taken by several courts in recent cases involving computer hackers that have successfully penetrated the FBI and DOD web sites on the Internet, and the similar happenings with telephone company systems, the court actions are wrong and fail to realize an extraordinary benefit staring them in their faces, namely, the use of this talent to the benefit of the public and government and business alike.

498. It is only a matter of time before very significant damage is done, let us encourage these hackers to help create blocks and programs that really do work and that will insure the public that the information and controls are safe and properly guarded. Shutting down our phone system is not adversely affected by this Proposal for enhancing the existing system by expanding the use of HEXADECIMAL Phone numbers.

499. Of course, hackers are very talented people and should be very well compensated, even while in custody, and they will participate, since they will be working from special, highly technical prisons, separately established for this very purpose, with the very best in equipment. In exchange for this extremely valuable participation and safeguard development, they will gain their freedom much sooner and be rehabilitated into society faster.

500. The public benefits will be immeasurable. If the stakes are devastatingly high, then you have to go where you find solutions, even when you don't like the situation. How embarrassing is it to acknowledge that our government and phone systems have been hacked yet another time?

501. PUBLIC SERVICE ANNOUNCEMENTS FOR HEXADECIMAL PHONE NUMBERS - The public has the right to know what we do here, and since surcharges will apply to encourage migration rather than specific orders to vacate on command certain phone numbers by selected industries, so let us inform them of these changes.

502. TONE COMBINATIONS ARE A NATIONAL SYSTEM STANDARD - The assignment of the tones that are used to represent the digits of the phone number were established long time ago and can not be changed. If it is determined that the phone company violated their very own standard, then they should be held fully accountable and pay reparations to fix the problem.

503. SCOPE OF RULE MAKING DECISION - In the final analysis, the Administrative Law Judge will make an informed decision about all this stuff. The Judge must attain sufficient technical skills applicable to this field and this issue in order to make an intelligent decision, for the future of us all is at stake. I intend to see to it that no stone is left unturned on this issue and to that end, by endlessly educating all parties of the extensive benefits of this HEXADECIMAL proposal and how perfectly all the pieces fit together to the benefit of everyone. The decisions to be made will be the most momentous and far reaching decisions, and likely, the most significant decision of our Judges career.

504. PERIPHERAL BENEFITS IN RELATION TO THIS PROPOSAL - This area code rule making is not being done in a vacuum. It includes every aspect of this issue and peripheral issues as well. This decision has far-reaching, profound effects not only in California, but the nation and the world as well. What we do here is extremely significant and will contribute immensely to how we each live our lives in communications terms, for the rest of our lives, and those of our children and so on. Lets get it right the first time, for everyone's sake!

505. The most significant issue is that with the Industry class of service, you get only a phone line with a dial tone and that's all folks.

Announcing this publicly and privately and that yellow pages shall be limited to only one area code and that we should get a cut of their business revenues, even without any possibility that HEXADECIMAL Phone numbers will ever be allowed to be advertised in these books.

506. EQUIPMENT MANUFACTURERS WILL COMPLY - As soon as the orders are issued and the phone company can demonstrate the numbers are on and operating, every manufacturer of equipment indicated they would make the changes required to their various pieces of equipment, so that they could take full advantage of the Private HEXADECIMAL Phone number group.

507. I contacted several companies: AOL will move when the system is working, ADEMCO, FBI, and DSC Security will produce "HEX READY" equipment as soon as the system is operating. Everyone I have contacted is excited about this Proposal and will cooperate on a prove it is working basis, and then they will make the equipment needed.

508. BROUHAHA, COMPLEXITIES, AND PERPLEXITY SNAFUS - We can expect an atomic explosion when the Phone Company sees how we are going to cut into their change. Switches Nortel DMS and Lucent 5ESS are all HEXADECIMAL. Why do you think this information is correct?? They lie, don't they? Based upon informed employee's comments.

509. ABSURDITY OF HAND CHANGING CUSTOMERS TO AREA CODES - Some many more years ago than I would like to remember, I wrote nearly 30 interwoven computer programs in a parts management, sales and billing package for a client.

510. After I completed the first release, the principal client demanded several additional fields be added. He wanted a second address field, parts number first digits field, credit limit field, and year to date purchases field, and so on, all to be added after the programs were done.

511. In the process of designing such a program package, it is necessary to establish precisely the format for each field, since every program reads and writes exactly in only this format. To change the format now, is a pain in the behind and should have been decided upon in the design stages. But to keep the client happy, I set out to fix the problem.

512. This is the same as the phone company spending money changing your number identification by hand, so that your number is now in the new 760 area code and not any longer in the 619 area code. This same issue will surface when HEXADECIMAL Phone numbers, HEXADECIMAL Prefixes, and HEXIDEDECIMAL Area Codes are put into place.

513. I simply wrote a short program to read in the variables and change the part number first two digits and read out all the items with the new fields created and primed with the expected information. It took me about 4 hours to write it and test it, then 10 minutes to change all the data base using the program I had just written.

514. Someone please tell me why the phone company happily shows us how diligently they have hundreds of people working for weeks on changing your number from the old area code to the new area code. A program could do this in less than 24 hours for all 50 exchanges and require only one computer operator! Is this just a farce or what? A ploy for increasing rates? It sure is not intelligent or up to date in Kansas City!

515. HEXADECIMAL LINE DANCE - Some times the concept being discussed is elusive and defies grasp by too many people. So to get a higher level of understanding, a different approach is in order. Here is yet another description of the same Proposal.

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516. Consider these phone numbers and details:

517.	Number	Count	Description	Comment
518.	1-619/231-1310	1.	Private HEXADECIMAL	-not allowed
519.	1-619/231-1311	2.	Public Decimal	-other people's number
520.	1-619/231-1312	3.	Public Decimal	-other people's number
521.	1-619/231-1313	4.	Public Decimal	-my number
522.	1-619/231-1314	5.	Public Decimal	-other people's number
523.	1-619/231-1315	6.	Public Decimal	-other people's number
524.	1-619/231-1316	7.	Public Decimal	-other people's number
525.	1-619/231-1317	8.	Public Decimal	-other people's number
526.	1-619/231-1318	9.	Public Decimal	-other people's number
527.	1-619/231-1319	10.	Public Decimal	-other people's number
528.	1-619/231-1310=A	11.	Public Decimal	-other people's number
529.	1-619/231-131*=B	12.	Public HEXADECIMAL	-not allowed
530.	1-619/231-131#=C	13.	Public HEXADECIMAL	-not allowed
531.	1-619/231-131D	14.	Private HEXADECIMAL	-not allowed
532.	1-619/231-131E	15.	Private HEXADECIMAL	-not allowed
533.	1-619/231-131F	16.	Private HEXADECIMAL	-not allowed

534. NOTE: There continues to be some confusion about the use of the symbols Ø and 0. This is because the dial on your phone shows the digit after 9 to be a 0, but it is really a ten or HEXADECIMAL A. Then there is the fact that true zero is not even used, it is not on the dial, and it is represented by Ø to distinguish it from the 0, which is on the dial. Are you confused, yet?

535. Here you can see how the Public Decimal numbers amount to 10 phone lines, and the Public HEXADECIMAL numbers amount to 2 lines, but the Private HEXADECIMAL numbers amount to 4 lines, for the total of 16 lines.

536. This compares vary favorably to the previous configuration, where there are only 10 lines (62.5%), by providing 6 more lines (37.5%) in the same exchange and that are fully NANP compliant.

537. Said another way; this is a 160% improvement in utilization of this resource. And still another way, 62.5% are Public Decimal numbers, .2.5% are Public HEXADECIMAL numbers and 25% are Private HEXADECIMAL numbers. And finally, by the line numbers, for the exchange, we have to compare 10,000 with 65,536. How can you resist this temptation?

538. Now, to a graphic display of information. Here we will allow the last two digits to assume all combinations of Base 16. This will allow you to see the actual phone numbers as they lay out on the page for 1-619/231-13xy.

539. HEXADECIMAL NUMBER COMBINATIONS FOR 1-619/231-13xy

540.		0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
541.	0	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
542.	1	10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F
543.	2	20	21	22	23	24	25	26	27	28	29	2A	2B	2C	2D	2E	2F
544.	3	30	31	32	33	34	35	36	37	38	39	3A	3B	3C	3D	3E	3F
545.	4	40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	4E	4F
546.	5	50	51	52	53	54	55	56	57	58	59	5A	5B	5C	5D	5E	5F
547.	6	60	61	62	63	64	65	66	67	68	69	6A	6B	6C	6D	6E	6F
548.	7	70	71	72	73	74	75	76	77	78	79	7A	7B	7C	7D	7E	7F
549.	8	80	81	82	83	84	85	86	87	88	89	8A	8B	8C	8D	8E	8F
550.	9	90	91	92	93	94	95	96	97	98	99	9A	9B	9C	9D	9E	9F
551.	A	A0	A1	A2	A3	A4	A5	A6	A7	A8	A9	AA	AB	AC	AD	AE	AF
552.	B	B0	B1	B2	B3	B4	B5	B6	B7	B8	B9	BA	BB	BC	BD	BE	BF
553.	C	C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	CA	CB	CC	CD	CE	CF
554.	D	D0	D1	D2	D3	D4	D5	D6	D7	D8	D9	DA	DB	DC	DD	DE	DF
555.	E	E0	E1	E2	E3	E4	E5	E6	E7	E8	E9	EA	EB	EC	ED	EE	EF
556.	F	F0	F1	F2	F3	F4	F5	F6	F7	F8	F9	FA	FB	FC	FD	FE	FF

557. 1-619/231-1311 1-619/231-1300=AA

558. Within the smallest rectangle are the existing Public Decimal phone numbers. To make it easier to understand, replace the As with Os,

keeping in mind the A=0. The lowest number, 1-619/231-1311, and the highest number, 231-1300 are identified.

559. The slightly larger rectangle wraps to the right and below; this is the Public HEXADECIMAL phone number section, for pagers and voice mail and fax.

560. The remaining numbers are Private HEXADECIMAL phone numbers. Notice all these were previously wasted numbers!

561. ADOPTION AS A NATIONAL STANDARD, NANP REVISED - It would come as no surprise to find the FCC and NANP revised to incorporate all the issues presented in this Proposal, and that would be a good thing. We are on sound foundation and the plan is well thought out. Hopefully, there are no significant errors, but surely there are going to be some, no matter how hard one tries.

562. EQUIPMENT OBSOLESCENCE AND TIME TO REPLACE - There is never a program that does not involve making something obsolete in some way. Nothing in this Proposal will cause any equipment to be unusable, but some points need to be made and legislative action is called for now. Here come the Transition Police!!!

563. It shall be unlawful to sell equipment that is not HEX READY after a 1-year term is expired. This to apply to all equipment, in all fields, not just alarm equipment. All alarm equipment will still be usable, but legislative action will allow only 1 year for all new equipment to become HEX READY.

564. The alarm industry has been transmitting HEXADECIMAL code signals on the national network for the last 25 to 30 years. There are about 25 fields that entries must be made into for customizing even the most unsophisticated alarm panel. All HEXADECIMAL digits can be entered and are used, but one of the 25 fields is the phone number field, and it is handled differently, because of the 0=A problem that you all know

about, now!

565. On some panels, this field is HEX READY now, as we write! On others, only some of the HEXADECIMAL digits can be entered and on still others, no HEXADECIMAL digits can be entered in this field at all.

566. This is also true for most modems used with computers, point of sale systems, credit card approval systems, and dial up ATMs. Of the equipment manufacturers I contacted, they reported that some will dial HEXADECIMAL digits, others will not or will only dial certain digits, some do not know for sure!

567. We will know the truth to all this after the test lines are set up so various industries and others can completely determine the abilities of various pieces of equipment. Once this is done, the CPUC must take action to require the phone companies to cooperate with the specific needs for these older pieces of equipment in the following ways.

568. If it is found that XYZ Modems will dial only the HEXADECIMAL digit D, then requests for line numbers that include only one or more Ds shall be made. This is a minor requirement and can be worked around easily and at no cost. With this requirement, we see that 231-D000 to 231-D999 provides for one thousand lines that will work just fine. Remember, only one digit need be HEXADECIMAL for the entire number to be HEXADECIMAL!

569. There is always the \$5.00 surcharge option to make it work using Public Decimal line numbers. As you can see, we are very timely with this Proposal. The rewards will come in a few years, when we really demand it, and then it will be there for us to use. Smart planing don't you think!

570. The Phone Company gets to keep the \$52.00 pre paid yearly for the Industry class of service revenue, even if the service is shut off. The Phone Company may make whatever investments it wants and earn whatever income derived from those investments as its own profit. Thanks a lot!

571. WHERE WILL IT WORK AND WHY THE DELAYS - Standard lines, copper or fiber-optic networks, all will work without a problem. After all, Bell Labs designed it this way! Then this is a very good question: Why isn't the lab or someone from the phone company spearheading this very Proposal? Good question, very good question! The answer is also very simple: Follow the money.

572. Earlier I told you that the Phone Company views the adding of area codes as a small cash cow. Just think of all those wrong numbers, you will pay for, then there is the added number of yellow pages and additional listings in several area codes, and you will pay for these also.

573. WHAT LITMUS TEST SHOULD WE APPLY TO THIS PROPOSAL - If it's not broken, don't fix it. That is a wise concept, but it is broken a little bit now, and if we are to believe the professional telephone industry members, it will be broken a lot more in just a very few years.

574. Notwithstanding, the proliferation of area codes, the causal issue that brings us to this discussion, on the surface, not much is evident about these problems, but that same calm precedes a bad storm.

575. If the predictions are on the money, then in 20 years we will have a very big problem. If a longer time, then it is still coming, what is so comforting about 3 or 5 extra years when no action was taken in time that would have prevented the problem completely. Then there is the possibility that the system will fail in say 10 or 12 years, somewhat ahead of the predicted exhaust time frame. Any of these scenarios allows the same problem to manifest in the future, whenever that occurs.

576. Here we have the opportunity to solve this problem in time and in a very reasonable way: use HEXADECIMAL Phone Numbers.

577. This will solve the problem for 100 years and maybe forever,

because there are some real advances on the horizon and they will come into fruition when there is enough money involved. Oh, I forgot to mention you get to pay extra for all those advances, but HEXADECIMAL Phone numbers are free!

578. INDUSTRY ACCESS DATA IMPERATIVE TO COMPLETE ACCURATE PICTURE - All industries need to be accurately represented in terms that show just how many lines are being used and by whom. Lacking this information, we simply stumble in the dark, and no one lights a candle.

579. We are forced to make assumptions that are largely just guesses. If we say that AOL has 100,000 lines in San Diego County, and that all others combined have another 100,000 lines, all just a guess, but we see that 200,000 lines are being used for this type of dial up communication to the Internet. If all move to Private HEXADECIMAL Phone number lines, that frees up 20 Public Decimal exchanges for assignment to public uses.

580. A point of fact: Unlike the alarm discussion below, Internet access is made by modems under the control of your computer that is running a program that was written by AOL staff, for example. It is no problem for this program to be changed so that it will allow the dialing of Private HEXADECIMAL Phone numbers. See the programming example I provide elsewhere in this writing to see just how minor the changes are that will allow for this to become a reality.

581. The plain is for the phone company to make available the needed facilities in the Private HEXADECIMAL Phone number group, then, when AOL releases their next revision program, it will include the new part that will allow the dialing of these numbers and the users will be instructed that they must change to the new numbers, since in 30 days the old numbers will no longer work! But even this can be automated. When the new program revision is run, it transfers preferences that the client has established and moves them to the new program. Included in this data, is the current dial up number that the program uses. Since AOL knows its own dial up numbers, it can simply do a substitution, automatically, without customer

intervention. A sweet deal!

582. This same reasoning holds somewhat for alarm companies. We estimate they may have 10,000 lines in use in the county. If they have a growth rate of 20 lines per month, all of which could be moved to Private HEXADECIMAL, then the sooner we impose the requirements proposed, the sooner we stop depleting this coveted Public Decimal resource, with its consumption of Public Decimal phone numbers.

583. There is a problem with the older alarm panels that can dial just a selected few, or none of the Private HEXADECIMAL Phone numbers. We will be able to stem the tide of increasing use by the imposed equipment requirements, but only a very few of the old-line number users may be able to move, this is to be expected. As soon as the new equipment is in use, all will begin using the new Private HEXADECIMAL Phone numbers.

584. Since a lot of the alarm lines are toll free, and are therefore translated numbers, the idea here is to change the underlying number from Decimal to HEXADECIMAL. Such a change will work just fine and is transparent to the all in the industry. What has to be done here and everywhere else, is to stop the expansion of these industries into the Public Decimal Phone number group.

585. LEGAL PRACTICE IN PRO PER- I had worked all my life (Hughes Research (2 patent disclosures) & North American Rockwell (over 100 engineering specifications for NASA and Air Force) and During this time, and also while teaching at both the Long Beach and Los Angeles Campuses of California State University, Electrical Engineering (Sponsor of Micro Mouse Project, a computer controlled robot that can solve a maze), (Sponsor IEEE Chapter) I also owned a Telephone Answering Service and Burglar Alarm Company and electronics repair and did radiotelephone services along with radio and TV engineering (I hold a valid First Class Radio Telephone License) I began teaching at University of Hawaii, Electrical Engineering Department. Soon after, the monthly payments due me stopped coming and I returned to California and began teaching again and

made a proposal to Pacific Telephone about several PHONE related ideas and
the use of HEXADECIMAL PHONE NUMBERS.

586. RISK ASSESSMENT AND OTHER POLITICALLY CORRECT ACTIVITIES - Even with the publication of this Treatise on HEXADECIMALS in nationally circulated media, and even recognizing that it is not over until the fat bell rings, nothing in life is a sure thing and this really does apply to the several state agencies and the riskieous one of all: the FCC!

587. The FCC is clearly at fault in every way for several reasons:

588. It should have seen this situation long ago on the horizon.

589. It should have encouraged the use of alternative solutions.

590. It should have developed and presented solutions, itself.

591. It should have heard in presentations before its proceedings. It should be recognized that any agency that can't even count the Channels, starting at 2 instead of 1 should have been an indelible sign of things to come.

592. CONTRASTING DECIMAL AND HEXADECIMAL NUMBERS - What are some of the noteworthy differences in decimal and HEXADECIMAL phone numbers? We all dial numbers on the phone, but most of us think of all of the number as being just the number. Yet, in the phone industry, these parts are given names. For example, in the number 1-619/231-1313, we have the long distance access (1) followed by the area code (619) followed by the exchange prefix (231) followed by the line number (1313).

593. Let us look at only the line number part of the whole phone number. This is better done with a specific example:

594. DECIMAL LINE NUMBER DISCUSSION for (231-1313 or 952-9901)

595. Base is 10 using (0,1,2,3,4,5,6,7,8,9), so position weight is left to right 3, 2, 1, 0 as in:

596. (Here power is shown as \ so email will work)

597. (10^3) is position 4 and it's weight is 1000

598. (10^2) is position 3 and it's weight is 100

599. (10^1) is position 2 and it's weight is 10

600. (10^0) is position 1 and it's weight is 1.

601. So, if we have full population,

602. $9 (1000) = 9000$ and

603. $9 (100) = 900$ and

604. $9 (10) = 90$ and

605. $9 (1) = 9$ and ALL this adds to 9999.

606. Some math shows us that the total number of possible phone line numbers is 0000 to 9999, or 10,000. This is the total possible number of LINE NUMBERS using a 4 digit LINE NUMBER format.

607. Several problems. First the phone number does not start at 0, because that is a TRUE 10, or hex A. TRUE 0 is not currently used and

608. The # on your phone is a 12, or hex C and

609. the * on your phone is a 11, or hex B and

610. the 0 on your phone is a 10, or hex A.

11. And I bet you thought this was easy!

612. HEX-A-DECIMAL LINE NUMBER DISCUSSION for (2F4-BC92, or 9FF-7DEF)

613. Base is 16 using (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F) so position weight is left to right 3, 2, 1, 0

614. as in:

615. (16^3) is position 4 and it's weight is 4096

616. (16^2) is position 3 and it's weight is 256

617. (16^1) is position 2 and it's weight is 16

618. (16^0) is position 1 and it's weight is 1.

619. So, if we have full population,

620. $15 (4096) = 61440$ and

621. $15 (256) = 3840$ and

622. $15 (16) = 240$ and

623. $15 (1) = 15$ and ALL this adds to 65535.

624. Some math shows us that the total number of possible phone line numbers is 0000 to FFFF, 65536. This is the total possible number of LINE NUMBERS using a 4 digit LINE NUMBER format.

25. Comparative analysis reveals that for a 4 digit line number, comparing decimal (modified by industry) with HEXADECIMAL we find a major availability of numbers. On the order of $65536 - 10000 = 55536$, or FIFTY FIVE

THOUSAND NEW, FREE, ALREADY PAID FOR PHONE NUMBERS THAT ALREADY WORK
_PROPERLY WITH THE EXISTING PHONE NETWORK.

626. Nothing is said about using HEXADECIMAL numbers in the exchange prefix or the area codes.

627. NOTE: Telephone persons have contributed to the information provided but must remain anonymous to protect their jobs. Some major number differences are argued, based upon the information given by these same phone company employees, in the form of we can't do that, or that will not work because of this, and so on. Presented here is the best information I have been able to gather,

628. and it does have some flaws, and decisions will be made about it, but on the whole, this is good reliable information.

629. TO BE OR NOT TO BE - That is a question with many answers. To be honest, even down right specific about it, will not win friends in high places, but to be less than that, is to be dishonest, something I have not developed an interest in doing in my life.

630. Then there is the politically correct issue of innuendo and casual forgot escape routes, which I detest. So which path to take, what will be the ramifications of each, and can I expect to be included in the impending explosion? As an Officer of the Court, attorneys are under oath to present the truth, am I to be held to a lesser standard?

631. All of these people, and especially the elected and appointed ones, have a fiduciary obligation to act on these issues and to be prepared to suffer exposure for failing to act. After 15 years and most recently, after a whole year, with face to face meetings, still no action, it is easy to see that they just don't care; they have no fear!

632. There, you have it! Like it or not, exposure will be the order of the day. We will let the chips fall where they may. After all, I did not forget or fail, they did, so let them stew in what is of there own

making.

633. On the state level, the bill AB818 Area Codes was introduced by Knox. He did not have good advice and on contact with his office, I was directed to an assistant with no knowledge of the subject. After several calls, and emails, and information, she wrote me, 'nothing to worry about, nothing will happen until November.' The bill was passed in the very next week without any expert input on the subject.

634. During this time, all members of the committee were also contacted, but not one; not even one replied or provided any person with technical skills to discuss this area code issue.

635. Now, AB818 is in the California Senate. I have contacted the leadership on 3 occasions, but nobody is there, nobody is replying. What kind of government have we allowed ourselves to have? You voted for them, so suffer!

636. Then there is the CPUC. In 1984 I wrote them and again in 1988 and again in 1995 and again in 1998. By accident, I found out that a face to face meeting could be had to introduce the HEXADECIMAL concept in person. The President of LaJolla Business Association and I went to this meeting, presented the facts and nothing has come of all that effort in the year since we met. It is astonishing to me to find nobody at home, anywhere. Is it any wonder why we have outrageous rates?

637. Then there is the lack of help on the national basis. Our two Senators don't return calls, don't reply to emails and even when called, the California State supervisor does not return calls.

638. The FCC has been written at least 10 times, I have saved the only three replies. After 3 pages of BS, the final line said: "Hex is interesting." Each commissioner was written to twice, but no answer after a year.

639. License plates use digits and letters, parking meter ticket numbers use both digits and letters, and so do airline tickets, so why not the phone network? Cell phones do not allow collect or bill to calls now so what is the beef? What is so difficult about using both digits and symbols and or letters? In a few years, with the corrections proposed to the phone pad to show the '0' as '0/A' and '*' as '*/B' and '#' as '#/C' the problem will be a short lived memory.

640. Here we have the classic situation of 13 people and a 12-person lifeboat. Something's got give in this critical issue. Hex is good!

641. Readers and especially our ALJ are reminded that frequently it is the underlying issues that power non-compliance, obstance, and greed. As the various underlying issues are mentioned, please keep in mind, many of the specifics mentioned go to the portrayal of character of the phone companies, and they are used to show the outrageous profits we are all allowed to be forced to pay.

642. This proceeding is a legal arena of the administrative law of California, it has the power of the Superior Court and with this in mind, I argue in advance, the people have the right to be informed as to all the reasons that legitimately form a part, even a remote part of the so called Area Code issue.

643. This author holds this administrative law proceeding in the highest regard, and to the extent any issue contained in this Proposal is concluded to be 'out in left field' please accept my advance apologies.

644. STAMPEDE TO MOVE OR RELUCTANCE OR JUST WHEN CONVENIENT - Advances in fire protection through use of better materials that will not allow the fire to spread as easily have been made and announced several times in the past. This advancement has not caused mass hysteria in the touch industry or public community. Still, today we see some of these materials being used and sold to the public in a variety of furniture.

645. So why would we expect to see the various industries we target as big users of Decimal numbers that could be encouraged to move to Public .EXADECIMAL or Private HEXADECIMAL numbers make a mass movement to free up the numbers we want for use by the public? We can make laws that require the NEW equipment be HEX READY in the next year. We can impose a surcharge on numbers these industries use. We do NOT say they must discard all existing equipment, but several remedies do exist including some features will not work unless movement to these new numbers is done.

646. Don't even think of trying to pry existing number customer to use a different provider with some other number- it will never happen even if the rate is much lower. No chance that I will give up my number in order to move to a different carrier - never so the whole idea of competition is a joke!

647. As a professional courtesy, I reminded Mr. Neeper to use this opportunity to reply so the public will know just what you did after being informed of the possible solution. When the opportunity came about, and after thinking a little, he could come up with only a casual comment that a letter was written to inform me that it was a FCC matter.

648. Apparently no other steps were taken in all this time, years on end and even after a face to face meeting, no reasonable effort was undertaken to resolve these issues. For example, if there are any degreed computer and communications engineers on staff or available as professional consultants, a technical report could have been ordered to independently examine the issues I raised. This was not done.

649. The Commission could have gone on record with a discussion and a resolution in favor of taking action. This was not done.

650. This is like going to a Doctor for the treatment of an illness and having to suggest a remedy on your own - where is the initiative of the doctor. He has a responsibility to propose and examine and decide on a remedy.

651. Is the FCC/CPUC technically challenged? Where is the FCC/CPUC
Es with extensive experience? This agency makes legal decisions without
professional advice, this is ludicrous!!!

652. COMMENTARY AND ANALYSIS - Why are we here? Shortages of PUBLIC
DECIMAL NUMBERS, not shortages of PUBLIC HEXADECIMAL NUMBERS or PRIVATE
HEXADECIMAL NUMBERS. Can we develop a way to increase PUBLIC DECIMAL
NUMBERS and remain compliant with NANP; a resounding yes is in order!

653. I must again remind readers that there are two situations, which
deserve discussion. Of those numbers that exist in small businesses, the
number on which the toll free 800 is dumped upon is an advertised and
routinely used business number. I do not expect that this usage would
result in the number being changed to a PRIVATE HEXADECIMAL number for
obvious reasons. However, if the user does require separate lines to
handle the toll free traffic, then these lines should indeed be PRIVATE
HEXADECIMAL not PUBLIC DECIMAL. The dumped on lines are not normally known
to the user and are not listed.

654. In cases like alarm monitoring, the local number is not for
public use, but rather it is for computer access and several toll free
lines may be dumped upon these lines without a problem. They should all be
PRIVATE HEXADECIMAL never PUBLIC DECIMAL as they are now.

655. Cost of surcharge versus bonus on vacating, 1 year of free
service. Let the Phone Company pay. I told them nearly 15 years ago; this
is their obligation

656. This situation is the direct result of greedy people and
uninterested people asleep at their posts. Had my requests been acted
upon, even investigated at any time during the last 15 years, absolutely
no problem would exist today.