

262. LOCAL NUMBERS - Mostly covered above, you can see that in situations where a lot of NUMBERS are used in a rotary bank, all but the first NUMBER can be HEXADECIMAL with no change in service or even knowledge by consumers that this has taken place.

263. Business with 5 or more lines should be the initial target of change to HEXADECIMAL NUMBERS. Some changes to services, such as Centrex, can be made at the switch room. In some situations, a very big board is provided with a button for each PHONE and the person answering incoming calls pushes the button of the desired extension to complete the call. These do not need to be changed in any way. By selecting a HEXADECIMAL NUMBER series like 234-F111 to whatever, only the 111 need be on the board, as this is known as "line NUMBER" one eleven, or extension 111. The first part of the NUMBERS is not even on the tag, because they won't fit, it's too small! Here we have an opportunity to cooperate in number selection.

264. PAY STATIONS - If you can't receive return calls on this PHONE, then make the NUMBER PRIVATE HEXADECIMAL in the first place!!!! I think this idea of not allowing return calls is worth less than the 35 cents allowed for using the PHONE and so should require a lower rate. A lot of business people do not feel they can afford the high cost of cellular Phones. My first month bill was \$742.38 and I nearly died when I got it!

265. Yes, Dorothy, there are people without Phones, alive and well in this state. And, no they are not drug dealers! These people need to be able to page their boss to see if he has work for them today, but the CPUC has destroyed this man's job possibilities by blocking pay PHONE call backs.

266. And when we all get the big one, the earth quake of all mothers, you may very well wish the PAY STATION allowed call backs, as it may be the only life line you have to the rest of the world. Remember, in a catastrophe, weird things happen. A one thousand pair cable is cut, but

only 4 lines still work! I'll bet you wish to God that pay PHONE is on one of those 4 lines and THAT IT allows callbacks.

267. EMERGENCY ADVANTAGE AT LONG LAST - When California has another earthquake of a magnitude of 4.5, an electromechanical switch located in the switch room of all PHONE companies will trigger a change in the computer program subroutine that will prevent all calls except PRIVATE HEXADECIMAL Numbered calls. This will allow emergency calls to get through by blocking all other calls.

268. ALARM SIGNAL LINES - In some installations, the business or premise PHONE line is not shared with the alarm signal line. In schools and various industries, jewelry, diamonds, etc. the alarm has its own, dedicated line for its exclusive use. These alarm, fire, burglary, holdup lines should be HEXADECIMAL PHONE Numbered.

269. This same criterion applies to Call Box Signaling, Elevator Phones, and Freeway Emergency Phones - all should be HEXADECIMAL Numbered.

270. Computer Bulletin Boards, Computer Accesses to AOL and others should all be HEXADECIMAL Numbered.

271. Credit card verification and Point of sale systems, all can use HEXADECIMAL PHONE lines freeing the PUBLIC lines for PUBLIC uses.

272. Voice Mail can use the PUBLIC HEXADECIMAL NUMBERS and free DECIMAL NUMBERS for PUBLIC uses. And pages that are automatically included in the message or simple tone pages can all be PUBLIC or PRIVATE HEXADECIMAL NUMBERS.

273. MILITARY AND PUBLIC EMERGENCIES - If you think we are all safe from terrorist attack, think again. It will happen and it will be a disaster on a scale we have yet to imagine. Whenever nature is involved, as in a forest fire, we come to see just how small we are in the overall picture of things. The only effective weapon is to fight fire with fire.

When a biological attack is made, nature takes over and we will be helpless to fight this monster. Just ask any biology major about it!

274. The need to have reliable communications will be the subject of extended discussion after the fact, by those who live on, because no calls will be successful using the DECIMAL PHONE system. Too many people will chat and chat and chat, preventing the system from being able to handle the needed emergency calls.

275. We can program the PHONE system to respond only to PRIVATE HEXADECIMAL PHONE NUMBERS. These calls can be made to work, for example, from hospital to hospital with no problem, provided you can get the PUBLIC off the PHONE so the system can handle these emergency calls.

276. By denying the completion of PUBLIC DECIMAL and PUBLIC HEXADECIMAL calls, you free up the system to handle PRIVATE HEXADECIMAL calls, which with the limited functioning system, have a much better chance of completion.

277. OTHER PHONE COMPANIES - The telephone system is experiencing some change by way of opening the business to other phone companies. The two major companies, Pacific Telephone and General Telephone now have competition of sorts. In passing, these two have refused to cooperate to the satisfaction of the CPUC and as a penalty, have been denied the right to offer long distance services. This is somewhat of a diversionary tactic and writing all in itself. I have to stop somewhere so; this is all I will have to say about that subject.

278. This Proposal you are reading, the expanded use of HEXADECIMAL numbers does not affect these other companies in any way, except that they too must offer HEXADECIMAL numbers, in the same way as the big boys are required. If they are allotted 10,000 lines or just 1,000 lines are assigned for their use, they still have usable and assignable Public and private HEXADECIMAL phone numbers in every group of numbers.

279. Suppose they are given 213/305, decimal, included is 305-\*123 and 305-#678, and 305-DDDD to FFFF HEXADECIMAL. Or, if they are given ,19/445-1000 to 445-1999, decimal, they still have both Public and Private HEXADECIMAL numbers to be assigned as in 445-1\*34 or 445-10#3 and they also have 445-1DDD to 445-1FFF for Private HEXADECIMAL assignments.

280. Are you beginning to see the marvelous advantages of this HEXADECIMAL system? As I said, HEXADECIMAL numbers are everywhere, in every exchange and line number and in every area code and they are free!!!!

281. HEARING IMPAIRED COMMUNICATIONS - These devices can be Public HEXADECIMAL or even Private HEXADECIMAL all to their advantage. Since no unwanted calls by the general public will be accidentally made into this system. Yet another advantage of number choice!

282. CORPORATE PLANTS AND SECURED LOCATIONS - Many national companies do not allow PRIVATE calls from corporate locations and maintain complete control on calls incoming. Secure locations, research centers and the like, have the same obligations to maintain control of their call traffic. All these are candidates for PRIVATE HEXADECIMAL PHONE NUMBER assignments, except for the single PUBLIC DECIMAL incoming lines to operators, who will make the connections they decide, are warranted and necessary and that do not breach security.

283. If you remember some time ago, when touch tone was first coming into use, we had a push button tone pad along side the rotary dial phone. We had to use the rotary dial to make the call, but could use the tone pad to signal some features, once the call was established. We do have telephone HEXADECIMAL tone pads that allow complete PRIVATE HEXADECIMAL NUMBER calling. These are useful in secured locations and under emergency conditions, but should not be made available to the general PUBLIC.

284. PHONE COMPANY BUSINESS OFFICES AND REPAIR SERVICES - when you call the 811 NUMBER or the 800 NUMBER or the 611 NUMBER, they are all

translated to pots NUMBERS. Those NUMBERS should be PRIVATE HEXADECIMAL NUMBERS.

285. EMERGENCY SERVICES - When you dial 911, it is translated to pots NUMBERS. Those NUMBERS should be PRIVATE HEXADECIMAL NUMBERS, not DECIMAL NUMBERS.

286. PUBLIC INTEREST, CPUC, ALJ, AND FCC; State and Federal Elected Officials - We all have the obligation to keep in mind that these government agencies exist to serve the PUBLIC interest. They are here to serve us and to control the telephone companies in what is our view of desirable functioning. There are gaps in this fabric; some would even call them rips.

287. FRIED GREEN HEXADECIMALS SERVED ON TOAST - A menu of possible solutions presents a problem for those not sufficiently informed as to what each listing is and the ramifications of ordering this item over that item. Even at this rather low level, no one on this list is expected to have extensive experience in computers and telephones and communications unless they were trained in these subjects. Most are attorneys, with only limited experiences and understandings about the subject at hand. Some may have access to experienced consultants, and for those with this help, I urge you to independently confirm my points and theories. If I have made a mistake, please do let me know about it, to be silent would be to accept an error. But, do your homework first!

288. The mistake made in the Apple Computer vs. Microsoft case about their interface was that the Judge did not understand what the case was about and the devastating destruction to Apple, brought on by his erroneous decision. I will not make that mistake in this presentation! The audience on this FCC list is diverse and interested, but may not be well informed, so let's hold class!

289. Mathematical Set Theory - Set theory has been around for a long time and was taught as an elective during my undergraduate time at the

University of Kansas, in 1959. Your kids have this same information today in high school. Ask them!

290. The Set is just a name for the characters or NUMBERS to be used to express something. In the case of words, in the English language, the set is the alphabet (ABC and so on).

291. The DECIMAL NUMBER set is just (0 , 1, 2, 3, 4, 5, 6, 7, 8, 9). There is a Binary NUMBER set (0 , 1), and an Octal NUMBER set (0 , 1, 2, 3, 4, 5, 6, 7). Notice the derivation of the words that are used to describe the various sets and the Base we define to be: Bi- for Base 2, Oct- for Base 8, and Dec- for Base 10.

292. The present PHONE system is contaminated and is said to be "dirty." You may think it is DECIMAL or Base 10, but that is not exactly correct.

293. TELEPHONE COMPUTER PROGRAMMING - I have no intention of allowing the PHONE company interests to cry about the millions of dollars they want to snow us for the costs of programming to implement the HEXADECIMAL NUMBER assignments and limit emergency access that I propose.

294. A short class in programming. The telephone computers are programmed in UNIX, a sophisticated computer language. Although not near for word, the following is a simple example of how to extend the input to allow for all the HEXADECIMAL digits and to allow for control of calls during an emergency. At the present time, if you dial a NUMBER 234-#789 or use the \* in a NUMBER, you will get a reject recording telling that the NUMBER can not be completed as dialed. Here is how that is done and the emergency call situation is also shown:

295. LINE NUMBER then INSTRUCTION (IN CAPS) WITH VARIABLES (lower case) then MY COMMENTS.

296. 1 IF off hook THEN give dial tone ELSE continue

297. COMMENT: THIS IS AN IF, THEN, ELSE INSTRUCTION. IF YOU TAKE THE PHONE IN HAND, IT IS SAID TO BE "OFF HOOK" AND YOU NEED TO HEAR A DIAL TONE, "give dial tone." (Passing note: In an emergency, this is where people fail to wait for the dial tone, which tells you that the computer is ready to accept your dialing. If you dial without the dial tone, your call will not be processed.) IF THE PHONE IS NOT IN YOUR HAND, THEN NO SERVICE IS NEEDED, SO THE COMPUTER WILL GO ON TO THE NEXT PERSON NEEDING A DIAL TONE, this is the "continue" part. GO READ LINE 3.

298. 2 RESERVED FOR BELOW DISCUSSION

299. 3 INPUT x AND GOSUB test

300. COMMENT: THE SYSTEM WAITS FOR A DIAL TONE THEN ALLOWS INPUT OF THE FIRST DIGIT YOU DIAL AND THEN GOES TO A SUBROUTINE NAMED "test" GO READ LINE 10

301. 4 MOVE x TO digit string AND ADD 1 TO count

302. 5 IF count = 7 THEN GOTO process call ELSE GOTO LINE 3

303. COMMENT: HERE THE DIGIT YOU DIALED IS ADDED TO THE NUMBER STRING AND A DECISION IS MADE ABOUT ARE THEIR ENOUGH DIGITS TO COMPLETE THE NUMBER. IF YES, THEN THE CALL IS PROCESSED (NOT INCLUDED) IF NO, THEN GET ANOTHER DIGIT BY GOING TO LINE 3, Go to line 22.

304. 10 SUB test

305. COMMENT: THIS SUBROUTINE CHECKS FOR A GOOD DIGIT. READ 11.

306. 11 IF x IS LESS THAN 1 OR MORE THAN 10 THEN

307. GOSUB recording reject ELSE RETURN x

308. COMMENT: THE DECISION TO ACCEPT THE DIGIT OR PLAY A RECORDING IS MADE HERE. IF THE DIGIT IS IN THE RANGE (1,2,3,4,5,6,7,8,9,or 10) THEN IT IS A GOOD DIGIT AND WILL BE MADE A PART OF THE NUMBER BEING DIALED. WHEN 7 DIGITS ARE RECEIVED, THE CALL IS PROCESSED (NOT INCLUDED). IF THE DIGIT IS OUTSIDE THE RANGE ALLOWED, THEN A RECORDING IS PLAYED, GO READ LINE 20 OR GO TO LINE 4

309. 20 recording reject

310. 21 PLAY rejects recording THEN disconnect caller AND continue

311. 22 END

12. This is the end of the demonstration computer program. All the above takes place in milliseconds, but you can act it out and understand how it is done. As you can see, it is really not all that hard to understand. If you are smart enough to write a legal brief, then you are smart enough understand this program. Here are some options for your consideration.

313. If a decision is made to implement some form of emergency control as a direct result of using HEXADECIMALS, then this is part of how that can be done. Replace the lines above with these lines, NUMBER for NUMBER:

314. 2 IF dialtone THEN read caller NUMBER

315. COMMENT THIS IS WHERE A TEST OF THE CALLING PARTY NUMBER CAN BE MADE TO PREVENT USE DURING AN EMERGENCY

316. 3 IF caller NUMBER IS NOT PRIVATE HEXADECIMAL THEN continue

317. Here the test is made about the source of the call, the caller's NUMBER. If this call is from a PRIVATE HEXADECIMAL NUMBER, then allow it to be processed, otherwise go to the next off hook line, by executing the instruction "continue."

318. Another way to accomplish emergency control is to test to see if the digits dialed are 911, in that order. This additional line of code would be required in line NUMBER 12.

319. 12 IF x(1) IS NOT 9 THEN continue

320. COMMENT THIS WILL CHECK TO SEE THAT THE FIRST DIGIT x(1) IS A 9 AND SIMILAR AND SLIGHTLY COMPLICATED ADVANCES ARE REQUIRED TO SEE TO IT THAT THE NEXT DIGITS ARE 1 AND 1, BUT THIS CODING WILL BE ONLY MORE CONFUSING TO MOST OF YOU AND I HAVE LEFT IT OUT.

321. So how do we change from DECIMAL NUMBERS to HEXADECIMAL PHONE

NUMBERS? Here is the MAIN reason I provided all this programming. In line 11 make this simple change:

```
322.      11 IF x IS LESS THAN 1 OR MORE THAN 10 THEN
323.      GOSUB recording reject ELSE RETURN x      (DECIMAL only)
```

```
324.      11 IF x IS LESS THAN 0 OR MORE THAN 15 THEN
325.      GOSUB recording reject ELSE RETURN x      (HEXADECIMAL)
```

326. COMMENT: THE RANGE OF TEST DIGITS IS CHANGED FROM (1 TO 10) TO (0 TO 15). NOW HOW LONG DO YOU THINK THAT TAKES AND HOW MUCH WILL IT COST?

327. It is just that easy! You just did it, yourself! So don't allow the PHONE Company to tell you it will take months and cost millions. Such a claim is a lie. See it for yourself - go back and re read it. It takes less time to do than it takes to write about doing it!

328. I know the Telephone Company will cry and try to drink at the money trough. They will try to tell you that this change will take more than 2 months to implement. Now that you are educated about that scam, don't even give them consideration; let them know, now that you are smarter than that!

329. Then, they will claim it will cost millions to implement, but where and why and for what reason. You just did it and it cost less than the time it took me to write about it.

330. All the phone company computers are connected and one change is automatically incorporated in all processing centers and switch room computers immediately (as fast as you can send an email). And it doesn't cost a penny to transmit the information in the program.

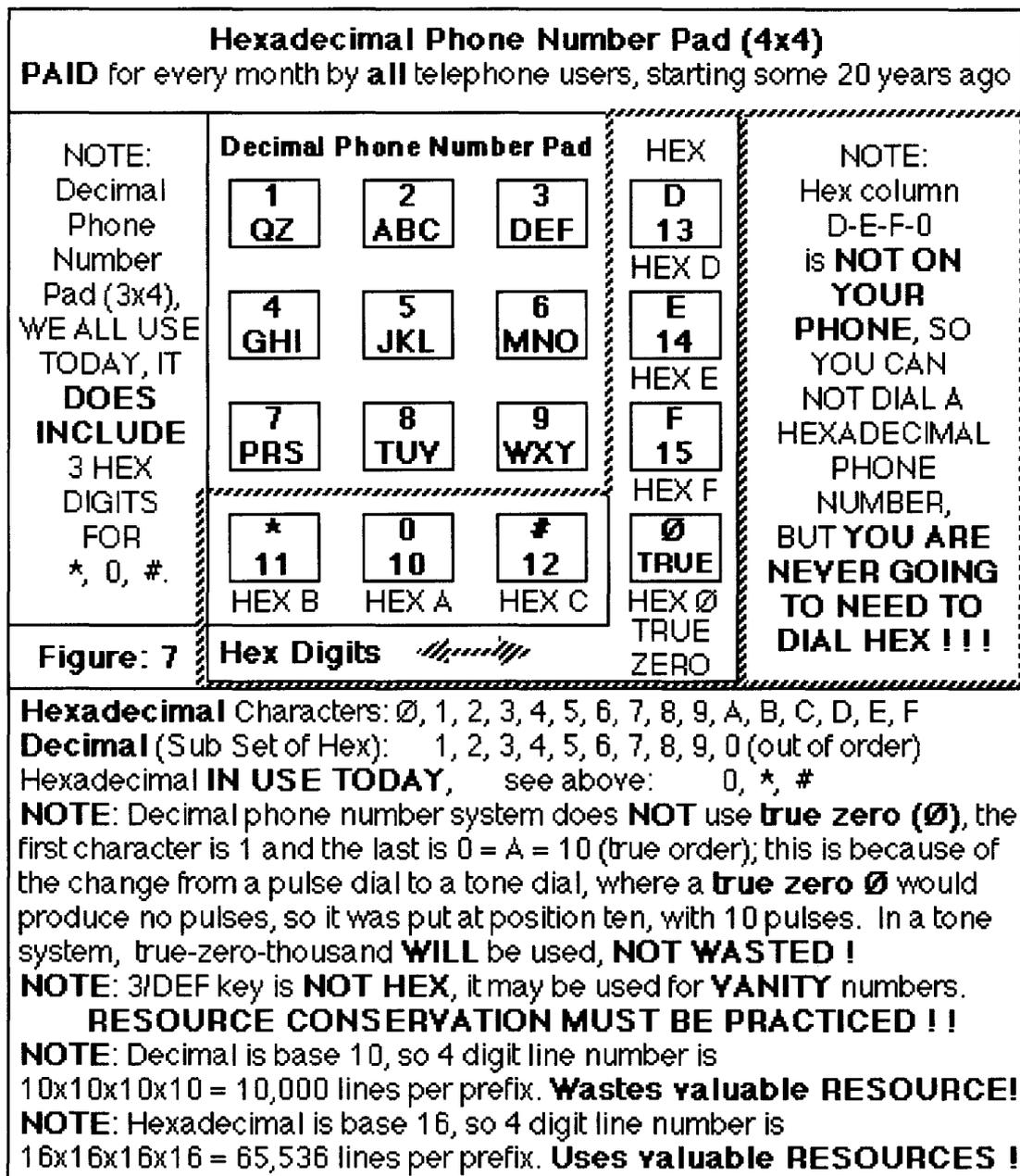
331. If you would like to learn about the cost scam to provide call waiting for \$3.50, when a cost of \$0.35 would EVEN be excessive, write me.

332. NIGHTMARE ON TONE PAD AVENUE - You will be surprised at what can be found in an alley, besides the obvious junk and debris, there are tone pads that are inconsistent! Looking at the stock telephone pad on every PHONE in America, we see that the digits increase from left to right and then drop a row and increase from left to right and drop a row and OOPS - they don't increase from left to right, it is not ABC it is BAC.

333. Then there is the drawing I made to show and tell people about how the column of four buttons to the right is missing from your PHONE. I made the buttons DEFØ using the logic that they increased in the column and after the F was a loop around to pick up the lonely true Ø button. This may be wrong! This is but one of the sources for my steadfast comment that the phone companies lie about information or just refuse to provide it, but not to worry, as you will see by reading on.

334. DIAL PAD RELATIONS WITH THE COMPUTER - When a button is pushed two tones at the frequencies corresponding to the intersection of the vertical and horizontal lines are produced.

, //



335.

336. Figure 1: Dual Tone Multiple Frequency Tone Pad showing HEXADECIMAL DIGITS.

337. Equipment at the switch room senses the frequencies of the tones and determines the dialed digit. This is a piece of equipment known as TONE 2 DIGIT and it captures the digit and gives it to the input of the computer. This is the DTMF system or touch-tone.

338. The fourth vertical column at the frequency of 1633 Hertz per second is the main subject of this writing. Note that the lower row shows that we have been using HEXADECIMAL digits for a long time, 0 from the very start, and also \* and #, all from when we all first paid for this base 16 system!

339. If you push two buttons in a column or row, both at the same time, you can hear a single tone. Some enterprising players can play a musical tune on the pad.

340. WHY NOT MORE DIGITS - The phone at home and elsewhere is linked to the computer located at the switch room by way of a twisted pair of wires. Tests were run to determine the frequency response of this twisted-pair based link to the switch. The reason was the need to determine the frequency limits that could be reliably used for digits defined by way of tones on the line.

341. This is how the  $4 \times 4 = 16$  tone pad and the frequencies were decided upon. One may question, why not have many more tones for the whole alphabet on the line, say  $7 \times 7 = 49$ , including all the digits, numbers, and punctuation on a tone pad? The reason is that the extra tones will not be successful in reaching the switch room and therefore it is not an acceptable system.

342. In contrast, using a phone system that is coaxial wire based, as is the cable television system and offerings from Cox Communications and others, there is virtually no limit on the frequency range for phone tone digits and all the alphabet and then some could be toned with ease. But, this is not yet acceptable, since we must address the needs of all America, which is almost entirely two conductor, twisted wire.

343. ISSUE PROFILE - We have the newly proposed Industry Class of service, which includes all locations of the Business Class and all locations of the Residence Classes of service.

344. The "digit symbols" here after referred to only as digits, are included in classes of service and consist of

,,1,2,3,4,5,6,7,8,9,A,B,C,D,E,F. Where the  $\emptyset$  represents true zero. Readers should keep in mind that digit 0 on your dial is actually HEXADECIMAL A or 10 in decimal, that symbol \* on your dial is actually HEXADECIMAL B or 11 in decimal, that symbol # on your dial is actually HEXADECIMAL C or 12 in decimal.

345. As you can see, we have several columns of information to get clear:

346. DECIMAL, HEXADECIMAL, BINARY CODED DECIMAL, TOUCH-TONES, PHONE PAD, BELL LABS, SYMBOL, ALPHABET, and CHANGES NEEDED SOON.

347. WARNING: Reminder, the ALPHABET column is for perspective only, it is the source of vanity phone numbers, AND IS NOT THE SUBJECT OF THIS WRITING!

348. Such vanity numbers as 415/CALL CPUC, for example, which in phone number digits is 415/2255 2782, or 415/225-5278 with a spill over digit of 2. This is in part, the reason why the invention called Smart Dialing, ending the number in a 0 or 1 or 2 to indicate the overlay area code will fail, it is not NANP compliant, so it has no chance for adoption. It is nevertheless, a good idea to be offered as a feature in accessory equipment that is not under the CPUC or FCC control.

349. REQUEST: We need to have the phone tone pads changed to accommodate the letters Q and Z and to have the HEXADECIMAL digits placed upon the dial as in 0/A, \*/B, & #/C, do this when repairing phones or on new phones.

350. Many cellular and other portable wireless phones correctly display the \* as a B, and the # as a C, already!

351. TABLE 1: == PHONE SYSTEM SYMBOL TABLE ==

EC	HEX	BCD	TONES	PHONE	BELL LABS	SYMBOL	ALPHABET	CHANGES
(10)	(16)	(2)	DTMF (Hz)	(10?)	(Mixed)	(2)	(26)	NEEDED
101	16	8421	Low+High	1	1&Alpha	1	1	SOON
- =	Ø =	0000 =	941+1633	-	%D	<not hex>		
1 =	1 =	0001 =	697+1209	1	1		Q Z	
2 =	2 =	0010 =	697+1336	2	2		A B C	<not hex>
3 =	3 =	0011 =	697+1477	3	3		D E F	<not hex>
4 =	4 =	0100 =	770+1209	4	4		G H I	
5 =	5 =	0101 =	770+1336	5	5		J K L	
6 =	6 =	0110 =	770+1477	6	6		M N O	
7 =	7 =	0111 =	852+1209	7	7		P R S	
8 =	8 =	1000 =	852+1336	8	8		T U V	
9 =	9 =	1001 =	852+1477	9	9		W X Y	
10=	A =	1010 =	941+1336	0	0		OPER	0/A
- =	B =	1011 =	941+1209	*	*	*		*/B
- =	C =	1100 =	941+1477	#	#	#		*/C
- =	D =	1101 =	697+1633	-	%A	<not hex>		
- =	E =	1110 =	770+1633	-	%B	<not hex>		
- =	F =	1111 =	852+1633	-	%C	<not hex>		

352. Descriptions and Definitions for this Phone System Symbol Table:

353. DEC ----- decimal, ( ) base 10, position weight 10 1

354. HEX ----- HEXADECIMAL, ( ) base 16, position weight 16

355. BCD ----- binary coded decimal, ( ) base 2, position  
356. weight 8 4 2 1

357. TONES -DTMF- Dual Tone Multiple Frequency, in Hertz, Lower &  
higher band

358. PHONE ----- tone pad, ( ) base modified 10, position weight 1

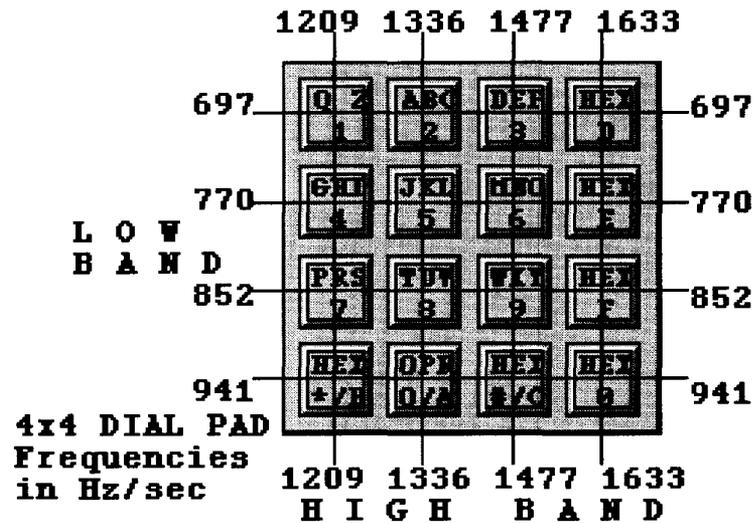
359. BELL LABS --- 16 button (4x4) pad, ( ) base 10 & ??, uses ABCD in  
column but ==DANGER== DO NOT MIX UP THESE WITH TRUE HEXADECIMAL ABCDEF

Look at last line: - = F = 1111 = 852+1633 - %C <not hex> see how F is  
not equal to %C. Percent symbol is used to keep them different along with

<not hex) notations

- 360. SYMBOL ----- hieroglyphic drawings, meanings for star and pound
- 361. ALPHABET --- Arabic alphabet, used for vanity phone numbers
- 362. CHANGES ---- needed changes to update dial buttons on new phones by adding QZ on button 1 and 0/A on button 0 and \*/B on button \* and #/C on button #
- 363. <not hex)--- means not HEXADECIMAL (in this direction)

364. Yes we have three ABCD's, but the percent (%) symbol does count and so does the <not hex) notation, as in the vanity alphabet column



365.

366. Figure 2: Dual Tone Multiple Frequency Tone Pad showing all 16 digits with intersecting frequency lines.

367. Notice how all-4 positions are fully used for the HEXADECIMAL representation and all tone crossings are fully used. Neat, don't you think! Nothing goes to waste.

368. NOTE 1. The current system, DEC for DECIMAL, is wrong. It is not strictly DECIMAL; rather it uses HEXADECIMAL 10 and does not use true 0 at all.

369. NOTE 2. The tone combinations, I selected; and the corresponding digit locations, I selected. The correct combinations that the PHONE company input (tone 2 digit) equipment is actually set to detect needs to be determined. The contacts I have made at the phone company lie about what is and is not, and so I must call your attention to this in the hope that someone at the PHONE company will answer these questions, truthfully and completely for us all, on paper and in the sunshine AND ON THE RECORD!

370. NOTE 3. The true locations of the digits and their tones is NOT left up to me or you, they are specifically defined in DTMF and CAN NOT be changed; but this will NOT a problem for anyone.

371. As far as what button produces what tone and is in what position is concerned, the above tone lines should be thought of mostly as a logical definition. A circuit board will be used and the wires of the circuit are not in straight lines, as is so neatly shown above. Any tone combination can be made to be created by any button, in any location, the problem is, we sure don't want to recall all the 100 million Phones in America to get the HEXADECIMAL system in operation. So, until the PHONE company finally gets to print a response to this proposal, we all will hold our breaths for the final truth, and go from there.

372. If you would not be forgotten,  
373. Soon as you are dead and rotten,  
374. Either write things worth the reading,  
375. Or do things worthy of the writing.  
376. (Ben Franklin, Poor Richard's Almanac)

377. OK, OK, so let us give them a chance.

378. TOO MANY NUMBERS - There will never be another crises involving area code assignments or creations or any other NUMBER crunch situation, because several companies are working on single line access for all services. And with the use of HEXADECIMAL NUMBERS, we have far too many

NUMBERS as of today.

.79. Base 10 DECIMAL

380. 1-000/000-0000 to 1-999/999-9999 provides 10 Billion NUMBERS

381. Base 16 HEXADECIMAL

382. 1-0 0 0 /0 0 0 -0 0 0 0 to 1-FFF/FFF-FFFF provides 1100 Billion NUMBERS

383. This is 110x as many NUMBERS when using HEXADECIMAL NUMBERS.

384. On a line NUMBER basis, 10,000 goes to 65,536 or 6.6x as many, when using HEXADECIMAL NUMBERS.

385. The issuing of only 10,000 NUMBER blocks or prefixes to telephone company competitors, thus opening access to these other telephone companies, is another telephone company scam.

386. The computer assembles the bill for each NUMBER and there is no reason whatsoever for not allowing any NUMBER to be made available by any provider and for the billing and control to be done by the provider of choice.

387. This is the same nonsense that we had with toll free NUMBERS in 1970's, where we had to use the NUMBER the PHONE Company picked for us and no choice was available. After much complaining, this was changed.

388. Americans do not like the idea of forcing people to move from one NUMBER to another, but you will save money if you do move. This will encourage people to move from digital to HEXADECIMAL.

///

=====  
389. ----- Part 3 Conclusion and Recommendations -----  
=====

390. --- CONCLUSION ---  
=====

391. P R O AND C O N - a discussion of the points of interest

392. Pro:

393. The ONLY proposed solution with any merit is using HEXADECIMAL PHONE NUMBERS, because it is more efficiently using the area codes, prefixes, and line NUMBERS that we already have in place.

394. The HEXADECIMAL proposal helps to extend the life of the NANP by 80 plus years with no new area codes required.

395. The HEXADECIMAL proposal will apply to area codes and prefixes as well as line NUMBERS, so a new area code, 2\*3 is no problem, as well as 213/4#5, this is no problem either. And 213/445-#492 is easy to use for the PUBLIC to be able to page or fax from existing PHONE button pads.

396. The idea of assigning some systems to more new DECIMAL area codes does not provide any relief to the system now or in the 20 or fewer years left before exhaust. However, see above for assignment to HEXADECIMAL digits, which does provide relief.

397. There is no cost to the PHONE companies using the HEXADECIMAL proposal.

398. Con:

399. Expect the PHONE Company to oppose and fight this legislation vehemently.

400. COMPLIANT, COMPATIBLE, CONFIGURABLE, AND CONFOUNDING - In this  
HEXADECIMAL SYSTEM, all these are

401. Compliant:

402. Is compliant with NANP

403. Is compliant with Network Bandwidth

404. Is compliant with PUBLIC Interest

405. Is compliant with Military Needs

406. Is compliant with State PBX

407. Is compliant with International Calling

408. Is compliant with Y2k

409. Is compliant with General Audience (G Rated) Web Site

410. Compatible:

411. Is compatible with Pay Phones and displays

412. Is compatible with Desk Phones and displays

413. Is compatible with Cellular Phones, PCS, Analog and Digital

414. Is compatible with Auto Dialers Independently Supplied

415. Is compatible with Fast Dial 8 and 20, PHONE Company Provided

416. Is compatible with Programmable Display and Dialers

417. Is compatible with PUBLIC HEXADECIMAL Controls (\*70, \*69, etc.)

418. Is compatible with PUBLIC HEXADECIMAL PHONE NUMBER Dialing

419. Is compatible with Existing Tone Receivers (tone 2 digit) at CO

420. Is compatible with Tone Pagers

421. Is compatible with Voice Pagers

422. Is compatible with Voice Mail and with Automatic Paging

423. Configurable:

424. Is configurable with Line Cards (DECIMAL to HEXADECIMAL) at CO

425. Is configurable with Alarm Controls, Local Program Panels

426. Is configurable with Alarm Control Panels, Up and Down Loading

427. Is Configurable with Computer Modems

428. Is configurable with Point-of-sale Terminals

429. Confounding:

430. Why California Assembly does not have Experienced Consultants

431. Why FCC / CPUC does not have knowledgeable leadership

432. Why FCC would not embrace All the Above

433. Why NONE OF THE ABOVE answer their mail!

434. What has FCC allowed CPUC to do? Legalese of Communication Act of 1996, and 1934 and Orders of FCC and CPUC. Touch Tone is free, we all paid for it and some will sue for trillions in damages. Communications Act does not specify no PUBLIC hex - its on every dial PHONE in America, how what basis this is compatible with PUBLIC hex dialing

435. Installation fee pays for all equipment, line, cable, line card, so why is there a fee for hex.

436. Capitalization of Plant Equipment is inflated so bill is inflated to show a 10% return on investment. A Fraud.

437. So when and for what reason will someone in South Africa be unable to call a PUBLIC HEXADECIMAL pager or voice mail? These are domestic needs that surly out weigh the remote possibility of an incompatibility with a foreign interest. Let them pay a surcharge of \$5.00 per month for a DECIMAL pager or voice mail NUMBER that is a Public Decimal Number.

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438. --- RECOMMENDATIONS ---  
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439. TELEPHONE EQUIPMENT MODIFICATIONS - The only suggestion is for a change in the buttons on all PHONE tone pads. The change should be to replace the \* with \*/B and 0 with 0/A and # with #/C because this is in

truth, the NUMBER symbol that is actually being dialed.

440. A manufacturer of PHONE equipment will surely produce an add on tone pad that has only four buttons in a column, representing the buttons: HEX/D AND HEX/E AND HEX/F AND HEX/Ø . These add on pads should not be of interest to the PHONE company or the PUBLIC since they are for PRIVATE HEXADECIMAL uses.

441. Nothing in this section is to be considered a barrier to the immediate introduction of HEXADECIMAL PHONE NUMBERS. The general PUBLIC will not be inconvenienced in any way by these issues.

442. These changes to the 3 lower buttons should be done on a repair and reissue basis and on a new supply basis for Phones provided by the PHONE Company on a new install of service.

443. HEXADECIMALS AND MANURE - No this is not a joke! A pick-em up truck was outfitted with 16 numbered bushel baskets (Ø to 15). The truck with the baskets made the trip to the local dairy to pick up bulk manure from the barnyard. Each basket was filled as fast as could be and the truck was driven back to the house. On arrival, basket number 1 was emptied and then basket number 2 and so on, to basket 9 and then basket 10 was also emptied.

444. The truck was driven back to the dairy to get more manure. On arrival, the empty baskets were again filled, and the truck was again driven back to the house and as before, basket 1 was emptied and so were 2 and so on to and including basket 10. Then the truck was driven back to the dairy to do it all over again.

445. But, what about baskets Ø , 11, 12, 13, 14, and 15? They just went along for the ride, filled with perfectly good steer manure, but never used! This is exactly what we are doing with phone numbers. We are only using the digits 1 to 10, leaving 11 to 15 and Ø just along for the ride.

446. Using HEXADECIMAL Phone numbers does make good sense especially if you have to make trips to the bulk manure dairy barnyard.

447. Mr. Neeper, what have you done in the last year, since we had our meeting, to examine, analyze, reject, or promote the use of HEXADECIMAL Phone Numbers in California?

448. POLITICAL, ADMINISTRATIVE LAW, FEDERAL AND STATE COMMISSIONS - What are we to expect from these sources? When and what will they decide? What is available in the various arsenals, and will they have the guts to live up to the reputation of the good ship DEFIANT in a furious battle? How will the PUBLIC perceive any action by any source? Did the elected officials really get the message: Its not location, location, location, but vote, vote, vote, and that is what they will NOT get unless this area code problem is addressed in full and that results in fewer disruptions and lower costs for everyone.

449. It is my opinion that the expanded use of already existing, but not as yet fully used, HEXADECIMAL PHONE NUMBERS, meets all the requirements in a superb and perfect way. No, not a reasonably close way, but in an absolutely perfect way. Magnificent is a word that comes to mind, because as science goes, often we have part of it or we have to patch around it to make it work. That is simply not the case with HEXADECIMAL NUMBERS and our PHONE system. It was, after all, built with this in mind!

450. PUBLIC Perception - The PUBLIC is mad, I dare say: "fighting mad." They are 100% correct in that the PHONE Company does make money with added area codes, and don't let them tell you any different! They are also mad, because business loose customers and have to advertise in 6 yellow pages that the PUBLIC has never received a penny in supporting revenue from day one to now. Some people, when technically briefed, become incensed over the lack of taking steps with what they call, the most obvious solution ever presented.

451. The PUBLIC doesn't like to make calls to their bookies, doctors, even lawyers (Heaven forbid) only to receive a recording or worse still, charged for the call to never, never land that takes too much time to call the PHONE company to demand reimbursement. Do you think that is the reason for the long wait to reach a PHONE company service agent? Could be, I wont put that past them!

452. Political Savvy - The PUBLIC ultimately will show its displeasure in the voting booths of America. Our elected officials have begun to feel the heat, and this is good for this issue and my long time effort to get the use of HEXADECIMAL PHONE NUMBERS expanded to use the full set. This is the time and place for action!

453. Our California Legislature is about to take some action. Assemblyman Knox has introduced AB818. Unfortunately, his bill is based upon good intent, but bad implementation.

454. No action or bill on the national or local level will succeed without fully supporting the North American Number Plain (NANP), and AB818 does not support NANP. Of course, this HEXADECIMAL proposal you are reading, does fully support NANP!!! AB818 makes an effort to forcefully segregate some services to other area codes. The problem with this is that it still uses another DECIMAL area code! That is a fatal flaw, because we have only so many area codes. Yes, we are running out of DECIMAL area codes, but we do have 3096 HEXADECIMAL area codes, just waiting to be assigned.

455. SEGREGATING SERVICES - Segregating anything in America is risky business. This word is absurd and unacceptable. The very idea is repugnant! There is however, a good old American solution, give-em a surcharge! You got that right, a surcharge is very reasonable and you can place bets on how fast they will move to HEXADECIMAL lines that have no surcharge! And best of all, it is legal.

456. GENERAL PUBLIC - As pointed out earlier, there is a difference between the GENERAL PUBLIC and all the rest. Enlightened PUBLIC and technically experienced PUBLIC members encounter all kinds of computer things in a day's work of PHONE calling. Voice mail, three short 400 hertz beeps that are supposed to tell you to punch in the NUMBER you want someone to return a call to after receiving a tone page; but they fail to tell you that the pay PHONE your calling from will not allow incoming calls. Following instructions from a computer synthesized voice that tells you to push 3 then do this or that and so on. Such is life in the big city and these users of Tone Pagers, Alpha Pagers, Faxes, Video Phones, and Computer Modems are all good candidates for surcharge encouraged migration motivation!

457. The wonderful thing about PUBLIC HEXADECIMAL PHONE NUMBERS is that they are available in every city and rural country; they are just everywhere, already exist, are fully integrated into the existing system, and do not use any new DECIMAL area codes and the buttons on every existing PHONE can dial them with ease. What more do you want to fix the problem?

458. WAY TO RELIEF IS PAVED AND EASILY ACCESSIBLE - Change is a disruption in the lives of everyone involved, but it is easier than you may think. This and the following example shows how easy migration to HEXADECIMAL phone numbers can be made.

459. HOLLYWOOD PAGING COMPANY - This Company uses Hollywood-6-4000 to 4999, for one thousand pager numbers and it also uses 7000 to 7999 for the same services. To get them to move from 466-4000 to say, 46\*, a public HEXADECIMAL number prefix, with as little disruption as possible, the phone company can give them the entire prefix, all 65,536 HEXADECIMAL line numbers, 46\*-4000 to 46\*-4999 and so on. By doing this, the assignments of 4000 to 4999 and 7000 to 7999 remain intact, with only the prefix being changed. This is convenient for the paging company and keep in mind, it is less of a problem for the customers that use their services.

460. Alternatively, the 466 prefix could be kept and move the pager lines to 466-\*000 to \*999, and 466-#000 to #999, either of these approaches gets the pagers into the HEXADECIMAL numbering system and frees up the decimal numbers for public uses, later.

461. And keep in mind the other users of numbers, alarms, elevator phones etc. All are candidates for the private HEXADECIMAL phone numbers that exist in these same locations. Alarms and point of sale and computer modems can all use 46\*-F2CD and or 46#-Ø F12 and or the existing exchange numbers, 466-C422 or 466-BCDE.

462. Best of all, the HEXADECIMAL numbers in prefix form, 46\*, or in line number form as in 466-\* and 466-# or in private form, they are all in existence now, and they are public or private HEXADECIMAL numbers, and are free and do not consume any digital numbers and they are in compliance with NANP.

463. The surcharge of \$5.00 per month per line on decimal numbers will motivate the change and encourage a fast response to the public need, and of course, eliminate the surcharge on these numbers, as there is no surcharge on HEXADECIMAL numbers.

464. The vacated decimal numbers will become available for public use very soon, relieving the crowding now experienced in the areas served by this prefix, and eliminating the need for new area codes now or in the future. This same example follows in every exchange in every area code in California and the nation. HEXADECIMAL numbers are available everywhere, such a free deal!

465. NORTH COUNTY AREA CODE - Then we have this example: the 760 area code put in North San Diego county. We all thought it was wholly ours, but not so. I took a survey on the street, in person, and asked if the area code was all ours; 9 out of ten responded that it was "our" area code. This fraud on the public would never have been allowed had they been informed of it. We should have gotten the entire area code as this is