

# FEDERAL COMMUNICATIONS COMMISSION

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In Re: )  
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REPORT TO CONGRESS ON )  
UNIVERSAL SERVICE EN BANC )

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1           After the presentations, we will have  
2 approximately an hour, actually 55 minutes of Q&A by the  
3 Commissioners. So we will -- we are going to have to keep  
4 to a tight schedule.

5           Thank you very much for coming. This is going to  
6 be a very exciting and enlightening day today. And it's  
7 very important to the Commission. This is what -- the first  
8 of what I hope will be two en banc presentations to help  
9 this Commission gather evidence and information for a report  
10 to Congress on universal service which is due April 10th.  
11 Congress has asked us to consider some very, very important  
12 questions and our ability to do that is directly dependent  
13 on the quality of input and information that we get from  
14 you. So, again, thank you very much for being here and I'll  
15 now ask my colleagues to make introductory remarks.  
16 Commissioner Ness.

17           COMMISSIONER NESS: Thank you, Mr. Chairman. And  
18 I want to thank all of the panelists for joining us today.  
19 I'm somewhat differently positioned in that my colleagues  
20 and I have are -- from my colleagues in that I have already  
21 voted to approve Commission orders sort of addressed to the  
22 issues that we're going to be discussing today.

23           But Congress asked us that we take a fresh look at

1 the -- both the construction of the terms, documentation  
2 services and information service. And I'm very happy to do  
3 so. It's an important area. And while I don't exactly  
4 bring a clean slate to today's forum, I do have an open  
5 mind. And I very much look forward to the discussions. So  
6 thank you, Mr. Chairman, and I hope I stayed within my time.

7 CHAIRMAN KENNARD: You did. Commissioner  
8 Furchtgott-Roth.

9 COMMISSIONER FURCHTGOTT-ROTH: Thank you, Mr.  
10 Chairman. And thank you for holding these hearings. I  
11 would first like to thank the staff, particularly Melissa  
12 Waxman and the others who have worked so very hard to put  
13 this hearing together. This is a very important matter.  
14 Congress is very concerned about universal service. They  
15 want to see it implemented correctly. And this -- this  
16 hearing and the entire proceeding is going to be looked at  
17 very carefully by Congress. And I look forward to the  
18 remainder of the hearing.

19 CHAIRMAN KENNARD: Thank you. Commissioner  
20 Powell.

21 COMMISSIONER POWELL: Thank you. It's my pleasure  
22 -- I guess I don't really have to go that fast. The report  
23 of Congress on universal service is going to touch on issues

1 that go to the heart. And one of the central questions that  
2 the Commission must answer, how are we going to regulate or  
3 abstain from regulating new services and technologies.

4 More and more companies are going to offer wider  
5 and wider varieties of services over multiple distribution  
6 media, or pipes. Ultimately, I hope that companies will be  
7 able to think of themselves not as cable, telephone or  
8 cellular companies, but as communications companies and  
9 sellers of bandwidth.

10 On many occasions, I have said that we regulators  
11 must be careful as providers of traditional  
12 telecommunications services begin to compete in new arenas,  
13 that we not allow these carriers to drag with them the  
14 regulatory mountain that they have called home for the last  
15 several decades. I urge the commentators in this proceeding  
16 to help the Commission think through how we may promote  
17 competition and the provision of new and existing services  
18 without imposing existing regulatory regimes on new products  
19 and providers unnecessarily.

20 I wish to reaffirm my support for the universal  
21 service programs that this Commission is dutied to implement  
22 under the Act, and I wholeheartedly endorse the overall  
23 goals of these statutory provisions. And I know the public

1 interest will be well served if we remain faithful to their  
2 intent. Thank you, Mr. Chairman.

3 CHAIRMAN KENNARD: Thank you, Commissioner.  
4 Commissioner Tristani.

5 COMMISSIONER TRISTANI: Thank you, Mr. Chairman.  
6 I want to thank you and our staff for the opportunity to  
7 hear from panelists today from a diverse group of panelists  
8 on these issues that we as Commissioners must address, must  
9 answer and -- and although they're aimed at a report that we  
10 will be soon answering to Congress, the questions and answer  
11 won't end there.

12 I look forward to hearing from you and I hope that  
13 this will be just one of the starts in helping us better  
14 answer to Congress and the specific questions that Congress  
15 and Senator Stevens have brought to our attention.

16 CHAIRMAN KENNARD: Thank you, Commissioner. We  
17 will now hear from an Internet service provider and an  
18 Internet telephony provider, Mr. Hyland.

19 MR. HYLAND: Good afternoon. Thank you for  
20 inviting me here today to share a brief overview of the  
21 Internet industry. As you requested, my comments will focus  
22 on the following points: The Internet service provider, ISP  
23 market overview; the Internet service provider, economics by

1 type; and market trends. I have prepared some charts and  
2 slides which I will refer to during my remarks, copies of  
3 which have been provided.

4 To begin, I thought it would be useful to consider  
5 the media industry supply chain as a basis for our  
6 discussion. The chart on page 4 presents the various stages  
7 of the supply chain as content makes its way to the  
8 consumer. At the beginning are the content providers, the  
9 individuals, companies and organizations that create the  
10 content.

11 In a broad sense, this content includes  
12 information providers -- publishers and databases; financial  
13 services -- banks and other financial institutions;  
14 transactions merchants -- ticketing, reservations;  
15 entertainment -- music, sports; communications and gaming.

16 And since this is a two-way pipe, the consumer  
17 also gets the create content: e-mail, chatrooms and other  
18 information that users find of some value.

19 The next stage is the content packages and  
20 aggregators. These companies take content and assemble it  
21 into channels, packages, formats to make it more readily  
22 available for the users of the content. Here we see online  
23 service -- services such as America Online, CompuServe,

1 Prodigy, the Microsoft Network; also companies that  
2 aggregate web sites for access and search and directors such  
3 as Alta Vista and Yahoo.

4 Next the content is made available for access by  
5 the users. These are known as the conduit providers; the  
6 Internet access providers, the ISPs, that provide access to  
7 the Internet for the individuals and business to use; other  
8 data networking services provided by long distance and local  
9 carriers, and networking equipment providers.

10 Finishing the chain to the consumers, we need end-  
11 user technology, the PCs and the related software, to make  
12 the content easier to access and to use the browsers and  
13 other software.

14 So that is a brief overview of how the content  
15 makes its way to the ultimate consumer. Now, if we could  
16 just take a brief look in depth. The chart on page 5 takes  
17 this value chain to consider in more detail the activities  
18 of what we refer to as online service providers -- that is,  
19 America Online, CompuServe, Prodigy, the Microsoft Network  
20 -- and then to the Internet service providers.

21 Online service providers create value by  
22 delivering to customers access to proprietary and originally  
23 produced content packaged in context with the web and

1 interactive communities. Online service providers are  
2 involved in the following functions as are depicted on the  
3 chart: Content creation which is the external acquisition  
4 and internal development of proprietary content and  
5 application. Activities surrounding that would be  
6 developing a relationship with content providers,  
7 negotiating content fees, conceptualizing scope and budget  
8 of original productions.

9           The content packaging, aggregating the content,  
10 applications and services, creating publishing channels of  
11 related content, linking or enhancing proprietary content  
12 and service with like content on the Internet and television  
13 and integrating content with multimedia applications.

14           Next is transmission and access infrastructure.  
15 That's managing the network, providing the dial-up and the  
16 dedicated access. To do this, the functions will include  
17 leasing and acquiring access lines, building out the local  
18 points of presence, monitoring and managing network  
19 activities and operations.

20           Next is sales and marketing: establishing service  
21 rates; developing and executing subscriber acquisition  
22 programs; signing advertisers, merchants; creating commerce  
23 opportunities.

1           In the distribution channels is executing  
2 distribution programs, partnering with software browser  
3 companies, staffing telemarketing and direct sales forces,  
4 establishing a relationship with other equipment  
5 manufacturers and value-added resellers, and developing co-  
6 marketing agreements.

7           And finally, the support and billing: customer  
8 and vendor account management, field and troubleshooting  
9 service support requests, process customer billing  
10 inquiries, pay the content providers and collect the fees  
11 from the advertisers, merchants and the end-users.

12           The Internet service provider activities are  
13 displayed -- are depicted on page 6. ISP creates customer  
14 value by maximizing the effectiveness of their network  
15 infrastructure to deliver optimized access to an interaction  
16 with the Internet. The ISPs basically begin with the  
17 transmission and access infrastructure and then carry it  
18 through the sales and marketing distribution and support and  
19 billing.

20           The most significant differentiator in these two  
21 types of companies, online service providers and ISPs,  
22 relates to the content creation and aggregation functions  
23 performed by the online companies. However, ISPs are

1 expanding their offerings into content to be more  
2 competitive. The online service and ISP via chains are  
3 converging around a common set of value drivers that are  
4 depicted on the chart on page 7.

5 Most of these revenues and costs are common to  
6 both. Again, online service providers develop an aggregate  
7 content and they have revenues and costs relating to the  
8 activities, whereas -- whereas ISPs are now moving into that  
9 activity.

10 Let's now turn to the financial model. Service  
11 providers are generating substantial year-over-year revenue  
12 growth, anywhere from 50 percent to several hundred percent  
13 increase. Revenues are principally being driven by  
14 subscriber growth for access services. Access has generated  
15 well over two-thirds of provider revenues. Value-added  
16 services, commerce and advertising are being targeted for  
17 future growth.

18 On the expense side, service providers are out-  
19 spending revenues resulting in negative financial operating  
20 margins. Costs of revenue and sales and marketing account  
21 for the largest share of operating expenses reflecting  
22 operator investment in market share and data communications  
23 and network operations. The charts on pages 10 through 15

1 provide more details of the make-up of the revenues and cost  
2 structures.

3 I would now like to turn to market trends and take  
4 a moment to consider some -- some of the market trends. The  
5 chart on page 17 shows the total market revenue opportunity  
6 is projected to reach 18 billion by the year 2000 from about  
7 five billion in 1997. Access for business and consumers is  
8 projected at about 10 billion of that total whereas value-  
9 added services, which is narrowly defined for this purpose  
10 as web hosting and securities service purchased by corporate  
11 customers, is projected to grow to seven billion.

12 Wholesale internet provider services represent  
13 managed IP capacity sold to ISPs in the support of their  
14 access in value-added services, and that's projected to  
15 about a billion in the year 2000.

16 The chart on page 18 shows that value-added  
17 services will experience the largest rate of growth -- that  
18 is, about 173 percent -- while corporate and individual  
19 access will constitute the largest share of total market  
20 revenues.

21 Convergence of the online service provider and ISP  
22 segments is occurring as participants expand their core  
23 businesses into new revenue-producing activities in the

1 industry value chain. The commoditization of Internet  
2 access has given impetus to ISP expansion into upstream-via-  
3 chain activities such as publishing, programming and deal-  
4 making.

5 The ISPs entry into these areas has forced online  
6 service providers to adjust their business models. Online  
7 service providers are addressing the ISP challenge in three  
8 ways: Increasing internal content production activities,  
9 developing advertising revenues within the context of  
10 content and service features, and creating transactions and  
11 fee-based revenues.

12 As it relates to consolidation, significant  
13 consolidation occurred in 1997 and is expected to continue  
14 at the high end of the market with continued proliferation  
15 of small providers at the low end. ISPs will face increased  
16 competition from established conduit segments such as cable,  
17 local tel. co. and long distance. ISPs will continue to  
18 diversify with new service offerings.

19 I appreciate your attention and the opportunity to  
20 join you this afternoon.

21 CHAIRMAN KENNARD: Thank you very much. Mr.  
22 Pulver.

23 MR. PULVER: Thank you. Good afternoon and I

1 would very much like to thank the Chairman and the  
2 Commissioners for having me here today. I would also like  
3 to thank Bob Pepper and Kevin Werbach for everything they've  
4 done, particularly for their assistance in helping nurture  
5 the internet telephony marketplace.

6 I've prepared a handout which I've presented which  
7 I will be going fastly through since I want to manage my  
8 time constraints. I might add that for those watching, a  
9 copy will be available on my web site later today.

10 So what I wanted to cover briefly is the  
11 technology for internet telephony and talk about the trends,  
12 the issues, and how the market is being driven. To define  
13 it -- I know there were demonstrations earlier today. What  
14 we were looking at is packetized voice being delivered over  
15 IP networks. These include intranets, extranets and the  
16 internet. It requires technology known as Codex (phonetic).  
17 These are things which compress and decompress voice. And a  
18 slang term you'll hear is -- internet telephony is also  
19 being phrased as IP telephony, but it's really voice-over IP  
20 networks.

21 This innovation is moving forward very fast. You  
22 can look at internet telephony as PC-to-phone, PC-to-PC,  
23 internet telephony appliances -- there are call centers;

1 there are distributed PBXs. And it's possible that PC-to-PC  
2 telephony may become the most popular form of communication.

3 The requirements for the PC side are a multi-media  
4 computer, typically a 486 or Pentium with a sound card,  
5 handset, microphone, and access to an internet connection.  
6 There are many benefits from shared collaboration and white-  
7 boarding, data-sharing for presentations, conference calling  
8 and video phones.

9 Internet telephony has been a great innovation for  
10 people involved in long distance relationships. I got into  
11 this industry as a hobbyist. I used to work on Wall Street.  
12 I used to be the VP of information technology. Until June  
13 '96, that's what I did for a living.

14 And I left it -- Wall Street completely and I  
15 focused all my energies here. And I started out by working  
16 from the internet side. I run mailing lists and I find out  
17 about these people who are involved in long-distance  
18 romance. Literally, someone meets someone from Stockholm --  
19 someone from Stockholm spends a summer in Los Angeles; they  
20 become friends; and now they somehow involve me in their e-  
21 mails because they look for technology to keep in touch with  
22 each other. And this happens around the world all the time.

23 I now have kids which will be four years old next

1 month, and I'm using the computer when I -- when I travel  
2 around the world to talk to my kids from wherever I am to  
3 the home. And it's -- it's a technology that brings  
4 families together. And it's certainly a lot of fun.

5           This technology is moving from PCs. We hear  
6 references to gateways. For definition purposes, a gateway  
7 is a device which connects the PSTN and IP network and has a  
8 technology needed to make things work. But just understand  
9 that despite the hype and hyperbole of some people in the  
10 industry, the gateways that you can buy today, they range in  
11 ports from one port to 24 ports. That means 24 phone lines.  
12 Your typical switch, you know, can -- it can do 10,000 lines  
13 at the same time. So the technology is getting there, but  
14 we're not there quite yet.

15           In many, the earlier users of this technology were  
16 hobbyists, me included. And today, the majority of people  
17 using this technology on the open internet are hobbyists.  
18 It's -- you know, intertelephony is sort of the hymn radio  
19 (phonetic) for the PC. There have been some businesses  
20 starting to use it, import, exporters and others. But it's  
21 -- the pick-up on the open internet is strictly -- it has  
22 been a lot of the hobbyists side.

23           There are a lot of issues facing our industry.

1 And I've taken a leadership role in trying to bring people  
2 together and to be up front about these things. It's uses  
3 such as adoption of standards and interoperability; you  
4 know, not only to people want to say they support standards,  
5 but how do you get the vendors to actually do it.

6           Directory services, you know, how do you find the  
7 person you want to talk to on the internet. It's the nice  
8 thing with a phone service. You call 411, or information,  
9 you get the phone number for the location you want to reach.  
10 But on the internet, you're really calling a person, not a  
11 location. It's kind of hard to actually track that.

12           We have accounting, billing and settlement  
13 systems. Last April I was at a meeting in Geneva with the  
14 ITU with the chairman of the PTTs. And we were discussing  
15 about how are we going to get high quality, internet  
16 telephony or -- for services over the open internet. And it  
17 was the collective understanding of everybody that until the  
18 PTTs from across the nation's boundaries can actually get  
19 payment so that they -- if they didn't -- you know, if you  
20 didn't have a phone call from Beijing to Paris through the  
21 United States. Almost everybody in the food chain somehow  
22 gets paid for it. Well, that's rough.

23           And the quality of service on the open internet

1 will continue to be predictably unpredictable because  
2 there's no incentive that's compared to the traditional  
3 telephony where if somebody goes through a switch, there's  
4 an accounting. So that's a major issue. You have network  
5 management. How do you maintain quality of service. With  
6 the gateways, right now they're two-stage dialing. It's not  
7 like a transparent type of service.

8           This -- the quality of service, latency,  
9 management. You know, I'm a hand-radio operator, so I used  
10 to spend my late-nights growing up in the '70s on my hand-  
11 radio listening to people with my ear to the radio tweaking  
12 out a signal report. But that's not what I would think most  
13 people would want to do to talk PC-to-PC or any other form  
14 of communication. So we have a long way to go to improve  
15 our quality of service.

16           There are also issues on global accounting rate  
17 reform and WTO agreements and what that affects may be. The  
18 trends is also popping up and we're all aware of these  
19 companies -- these next-generation tel. cos. coming up. But  
20 keep in mind that right now, most of these companies are  
21 rolling out their own networks, not using the public  
22 internet, and they're using a mixture of frame relay and  
23 leased lines.

1           And, you know, with this unpredictable nature of  
2 the internet -- I mean, I confess; you know, my kids,  
3 they're -- for their third birthday, I bought them a multi-  
4 media PC, 200 megahertz machine, 64 -- 48 megs of RAM, 6.5  
5 gig hard drive. Big debate in my house, but I put them on  
6 the internet because I have T-1 in my house. And my kids  
7 love to surf and these are three-year-olds. You're talking  
8 about the next generation of kids. These are three-year-  
9 olds browsing the internet. They had trouble communicating.  
10 But they know how to add web sites. And I set them with  
11 Disney and PBS.

12           And one of the most amazing things to me is they  
13 started getting upset when they wake up in the morning and  
14 they can't go to disney.com. They actually add .com now to  
15 everything they say, but that's another story completely.

16           (Laughter.)

17           But, you know, I wake up and my kids are upset  
18 because my ISP is down. So what did I do? I have a multi-  
19 home house now. I have two -- I have two T-1s in my house  
20 running a multi-home because my kid doesn't understand when  
21 a service is down. So now they -- I've been accused of --  
22 you know, one of the things they say spoiling your kids in  
23 the '90s is giving them their own T-1. I -- I confess,

1     okay.

2                     (Laughter.)

3                     But it's this unpredictable nature. And then you  
4     look back and you look under business. And we're saying,  
5     gee, people are running phone services over this today. I  
6     would like to know who is going to be doing customer support  
7     for those companies because of this unpredictable nature.  
8     We have a long way to go. In my mind, you know, the  
9     Internet is clearly predictably unpredictable.

10                    No one is going to argue that a future IP network  
11     -- the future networks won't be IP-based. My -- and -- and  
12     we're going to be putting voice-over-data as compared to  
13     data-over-voice, what's happening now. But when this really  
14     happens? I don't know. I don't think anyone really knows  
15     when that transition -- we can say it's starting now. What  
16     with legacy, it could be, you know, a long time out. The  
17     real value for internet telephony comes from our ability to  
18     deliver services which take advantage of telephony, the PC,  
19     and all the benefits of work groups. You know, we can go  
20     over our IP-based services.

21                    There are people today taking advantage of these  
22     opportunities. They're doing absolutely what I call digital  
23     bodegas. You know, they're operating in certain immigrant

1 -- certain cities around the United States. They're going  
2 to the low district -- they're going to the immigrant  
3 neighborhoods. They set up a gateway. And they go into a  
4 -- maybe they terminate in South America. And it's -- you  
5 know, you go there with a cowboy vest and you go in and you  
6 make your minutes.

7           But it's a digital bodega and they're purely  
8 taking advantage of the arbitrage opportunities. But I  
9 think those are shortly businesses that go away when we have  
10 our WTO agreement because, you know, sooner rather than  
11 later, most of the major routes are going to be very little  
12 margins and differences between PSTNs and alternatives.

13           I was asked to do a sales forecast, where the  
14 market is. I really -- I can focus on equipment sales. I  
15 could tell you that in '95 when the industry was born, it  
16 was about a 2.5 million dollar business; that in '96, it was  
17 about 10 million; '97, around 100 or 150 million dollars.  
18 And my projections were for '98, around -- this is  
19 equipment.

20           This is people selling equipment and this is not -  
21 - this is not a substitute for PST and infrastructure, but  
22 these are people selling all sorts of devices like call  
23 centers -- you know, IP-based call centers, phone systems

1 that run over your LAN which is pretty neat, as well as, you  
2 know, routers and all sorts of next generation technologies  
3 that are IP-enabled.

4 And we're going to see -- we could see a market  
5 from 225 million today to 1.5 billion in 2001, but it's kind  
6 of hard because my crystal ball is a little foggy. And  
7 there are a lot of things that could happen which would  
8 upset that balance.

9 And if you look out at what the service revenue  
10 projection is going to be, I leave question marks up because  
11 I don't know. And I know these people. I'm in daily  
12 contact sometimes with companies who want, you know, the  
13 insight on what's happening in the industry, what should we  
14 do, what vendors should we talk to. And I'm very positive  
15 about what we can do. But we're in a position right now  
16 where there are a lot of things going on. So it's a good  
17 market but, you know, other things going on.

18 As far as looking in the near-term future, we have  
19 great opportunities for U.S. (inaudible) innovations, from  
20 data networking companies, telecom. equipment vendors,  
21 nontraditional start-ups who drive the market forward, and  
22 specifically this is going to be a great opportunity to  
23 provide cheaper communication service to everybody. This

1 technology has a promise for open -- to open up a new era of  
2 low cost, highly functional communications which is distance  
3 and sensitive. Thank you.

4 CHAIRMAN KENNARD: Thank you very much, Mr. Pulver  
5 and Mr. Hyland, also. I invite our other panelists to come  
6 up now. Now, as a concession to the shortness of time that  
7 we have today, I'm not going to introduce all of our  
8 panelists at the outset. But I will ask you to briefly  
9 introduce yourselves as an introduction to your  
10 presentations.

11 And I will remind you all that what you say today  
12 will go in the record of our proceeding for the universal  
13 service report that we'll do to Congress. So don't be  
14 surprised if you see it cited back to you sometime in a  
15 brief or a pleading. I hope that happens, actually.

16 Mr. Comstock, you are the first batter up.

17 MR. COMSTOCK: Thank you, Mr. Chairman and  
18 Commissioners. I appreciate you inviting me to testify  
19 today. My name is Earl Comstock and I am presently an  
20 attorney at the D.C. based law firm of Sher & Blackwell.  
21 I'm here to testify in favor of the views expressed by  
22 Senators Stevens and Burns in their letter to the Commission  
23 on January 26th.

1           Prior to joining Sher & Blackwell, I served for  
2 five years as chief counsel and legislative director for  
3 Senator Stevens and also served as a special counsel for  
4 telecommunications for the Senate Commerce Committee during  
5 the negotiations and drafting of the Telecommunications Act  
6 of 1996.

7           Since I do not represent any particular industry  
8 interest, it is my hope that I can shed some light on the  
9 statutory provisions and (inaudible) of the universal  
10 service provision of the Communications Act, and perhaps  
11 speak to the rural consumers who otherwise stand to be left  
12 behind if the Commission's present policies remain  
13 unchanged.

14           There are a number of issues related to the  
15 Stevens/Burns letter in the Section 623 report that I would  
16 like to highlight briefly with respect to the definitions  
17 and their interpretations. Congress did intend  
18 telecommunications service to describe a broader class of  
19 services in the Commission's pre-1996 Act definition of  
20 basic transmission service. The Commission has already  
21 recognized that to some degree, we would just urge that you  
22 go further.

23           The Commission should interpret the definitions of

1 telecommunications service and information service as  
2 overlapping or at least, at a minimum, move the demarcation  
3 point between them. To do otherwise would make a mockery of  
4 many provisions added by the 1996 Act.

5           The legislative history supports overlapping  
6 definitions. Many commentators' point to language in the  
7 Senate report regarding the term, telecommunications, to  
8 support their argument that the definitions are mutually  
9 exclusive. Had the conference adopted the Senate  
10 definitions unchanged, this approach would be correct.  
11 However, the conference did not do so. Instead the  
12 conference deleted the specific statutory language that  
13 appeared in both the Senate and House bills that made the  
14 definition of the telecommunications service and information  
15 serve mutually exclusive.

16           In addition, the conference adopted the house  
17 definition of information service thereby eliminating the  
18 phrase, "computer applications that act on the format,  
19 content, code, protocol or similar aspects of the  
20 subscribers transmuted information," from the test for  
21 information services. In making this choice, Congress  
22 recognized that the future, which in most cases means today,  
23 any communication that would involve computer applications -

1 - any communication would involve computer applications  
2 acting on at least the protocol or code of the transmitted  
3 message.

4 By continuing to apply the Commission's computer  
5 III contamination theory where the bundling of an enhanced  
6 service with transmission results in the whole package being  
7 deemed enhanced, the Commission is creating a favorite class  
8 of communications called information services. This  
9 favoritism threatens to undermine not only the universal  
10 service provisions of the Act, but also the local  
11 competition and regulatory parity provisions that Congress  
12 worked to so hard to include.

13 The exemption of autolyzed (phonetic) pay  
14 transactions from universal service, charges and access  
15 charges creates a multi-billion dollar incentive for  
16 industry to restructure their telecommunications services to  
17 make them enhanced under the Commission's rules is already  
18 happening today and I think some of the other presenters  
19 will talk to that.

20 AT&T recently announced they will begin providing  
21 voice telephony over the Internet thereby avoiding access  
22 charges. John Sidgemore, CEO of UnionNet (phonetic), was  
23 recently quoted as predicting that by the year 2008,

1 traditional voice transmissions will represent less than one  
2 percent of total communications traffic. And under the  
3 Commission's present policies, that one percent is expected  
4 to bear the entire cost of the universal service.

5 Let me be clear. The Stevens report is not asking  
6 merely about the direct universal service fund. It is also  
7 inquiring about the Commission's exemption of ISPs from  
8 access charges. Including schools and libraries, the direct  
9 USF contribution is roughly five billion dollars per year.  
10 This pales beside the roughly 20 to 25 billion dollars in  
11 access charges that are collected from ISPs each year to  
12 support the cost of operating the local network at an  
13 affordable rate.

14 Some portion of that 20 to 25 billion dollars goes  
15 to support universal service. The rest supposedly goes to  
16 pay for the use of the local network to reach individual  
17 homes and businesses. It is that network from the central  
18 office to the house that I think is often overlooked.

19 ISPs continue to be exempt from both costs, costs  
20 which the Commission has imposed on long distance callers to  
21 use the network in exactly the same way. The Commission has  
22 explicitly recognized the ISP has used the local network in  
23 the same way as long distance callers do since 1983. The

1 Stevens/Burns letter lays out the financial impact of this  
2 exemption in some detail. The Commission must address this  
3 issue of universal service if the affordable local rates is  
4 to be preserved.

5 This is not to say that ISP should pay per minute  
6 access charges. Rather it is to say that some portion of  
7 the ISP traffic, that which also meets the definition of  
8 telecommunications, should be included in the pot when the  
9 FCC restructures access charges. We already collect enough  
10 money today, but that will not be the case in the future if  
11 traffic is removed from the pot by a technological slight of  
12 hand.

13 Moving to the Commission's interpretation of  
14 Section 254 itself, first, the Commission's current  
15 interpretation definitions make a mockery of Section  
16 254(c)(1)'s requirement that universal service constitute an  
17 evolving definition of telecommunications service. What is  
18 there to evolve to if something as simple as internet access  
19 is not a telecommunications service.

20 In addition, the 254(c)(1) distinguishes between  
21 essentially basic and enhanced. If you haven't met the four  
22 criteria spelled out there, you're not an advanced  
23 telecommunications service. So there is a distinction

1 already in the statute and one that I think should be given  
2 more attention.

3           Second, the Commission seems to overlook the  
4 historic compromise that was struck between the House and  
5 the Senate on universal service; namely, that universal  
6 service would be limited to access to advanced  
7 telecommunications and information services.

8           To keep universal costs manageable, it was agreed  
9 that universal service, even for schools and libraries,  
10 could only be used to provide access. It could not be used  
11 to pay for the information service itself. In this light,  
12 as the Stevens/Burns letter makes clear, the Commission  
13 cannot have it both ways. If internet access is in fact an  
14 information service and not a telecommunications service,  
15 then universal service funds cannot be used to pay for it.

16           On the other hand, if the Commission were to allow  
17 the definitions to overlap so that internet access is in  
18 fact also a telecommunications service, then the problem  
19 would be solved. Reviewing the Commission's own definition  
20 of conduit service as the letter points out, this would be a  
21 much more defensible result.

22           Much of the Commission's defense of its  
23 interpretation of Section 254(h)(2) relies on the argument

1 that Section 4(i) gives it the power to expand this section  
2 and that -- and that Section 254(c)(3) only refers to  
3 services and not telecommunications services.

4 I would like to point out that Section 254(c)(2)  
5 also uses the term, services, precisely because both (c)(2)  
6 and (c)(3) are referring back to the definition of universal  
7 service which is an evolving definition of telecommunication  
8 service. I think other matters have taken place on the  
9 issue of 4(i), so I won't go into that.

10 It should be noted that the statutory language in  
11 the statement of managers regarding Section 254(h)(2) both  
12 refer to access to advanced telecommunications and  
13 information services.

14 In closing, let me just say that I think some  
15 people here on behalf of the cable industry are going to  
16 advance the argument that they should be allowed to provide  
17 Internet access as a cable service and that they should not  
18 be a telecommunications service. I would be happy to go  
19 into that in more detail, but I think that clearly goes  
20 beyond the scope of what Congress envisioned. We preserve  
21 their cable monopoly in the bill. And if you allow them to  
22 provide essentially telecommunications services under the  
23 guise of information services, you'll be doing a lot to

1 upset regulatory parity.

2 I've got a longer statement which I ask be  
3 included in the record. Thank you.

4 CHAIRMAN KENNARD: Thank you very much. Ms.  
5 Dyson.

6 MS. DYSON: Good afternoon. I would like to thank  
7 all of the usual suspects and explain briefly what I'm  
8 trying to do here which is honestly more to learn and to  
9 present the point of view of someone who comes out of the  
10 internet community, but is not necessarily biased in its  
11 favor. And I am genuinely going to be brief and I hope to  
12 answer questions or provoke questions, whatever.

13 First of all, I listened -- and so I have five  
14 points here to make. I listened to Mr. Hyland's very  
15 interesting presentation, but with some skepticism because  
16 the arrows all go in one direction and the challenge you  
17 face is that this industry is not a single, simple food  
18 chain, but a much more complex web. You have content  
19 providers to buy services from other people.

20 These things go around several times before they  
21 finally go to the consumers. The consumers in fact provide  
22 substantial amounts of content. And so what you're looking  
23 at here is not at a simple food chain where you can easily

1 take out one segment and decide to tax it, but a very  
2 complex web.

3           And so my basic suggestions would be that you not  
4 try to do that because any definition you make that tries to  
5 distinguish between one kind of operation or entity is going  
6 to end up both being breached and arbitrary on the one side,  
7 and distorting the marketplace on the other. I think you  
8 really need to focus more on the end game which is going to  
9 be a competitive marketplace where the various providers pay  
10 one another in order to get the services they want rather  
11 than design their businesses in order to accommodate  
12 regulatory definitions.

13           To me, internet telephony is simply one more  
14 technology like fiber optic or satellite. And it -- trying  
15 to treat it differently in any way just, again, ends you up  
16 in complications. If someone wants to provide IP direct to  
17 the consumer -- IP telephony direct to the consumer, that's  
18 different to providing an IP telephony backbone. And it  
19 seems to me those different players should have peering  
20 arrangements (phonetic) and pricing agreements rather than  
21 getting tied up in a regulatory tangle.

22           So the net of this is that I don't really -- I  
23 know I come from the internet community. I don't really see

1 the purpose -- or I see the purpose, but I don't see any  
2 further purpose to the ISP exemption. It just, again, seems  
3 to try to create market definitions and rigidities that  
4 don't make a whole lot of sense.

5 When you talk now about universal service funds  
6 and stuff like that, my short form version is that these are  
7 worthy goals, but I'm not sure how -- it seems to me this  
8 stuff should be paid for by general taxes rather than out of  
9 some arbitrarily defined telecom pot. That may not be  
10 politically realistic, but I do think it's a goal we should  
11 look for as a society. This stuff is worthwhile for  
12 children and schools and rural communities. It's worthwhile  
13 to the entire country, not as something that comes out of a  
14 narrowly defined telecom provider's pot.

15 So let me leave it at that except to say that if  
16 we do have a truly competitive environment, I believe prices  
17 will drop so low that many of these questions will have much  
18 less relevance. Thank you very much.

19 CHAIRMAN KENNARD: Thank you very much. Ms.  
20 Lesser.

21 MS. LESSER: Thank you, Chairman Kennard,  
22 Commissioners. My name is Jill Lesser. I am the deputy  
23 director of law and public policy at America Online. Let me

1 state at the onset that America Online supports the goal of  
2 universal service, that all Americans should have access to  
3 basic telecommunications services as affordable prices.  
4 Indeed, those basic telecommunications -- those basic  
5 telecommunications services provide the infrastructure for  
6 access to advanced services such as the Internet. And we in  
7 the ISP community depend on basic services as retail users.

8           As we enter the next millennium, we believe  
9 universal access to the internet at affordable prices will  
10 be seen as just as critical as was universal access to voice  
11 telephony in this century. The Internet has emerged over  
12 the past three years as perhaps the most important driver of  
13 our nation's economic growth.

14           Not only has the industry grown at an  
15 unprecedented pace, it has contributed significantly to  
16 innovation and growth in other industry's that rely on  
17 information technology and the internet for delivery of  
18 information, goods and services. Many recent studies which  
19 we reference in our written submissions highlight the  
20 extraordinary impact that the explosive growth of advanced  
21 services has had on the American economy.

22           As the Commission recognized last year, this  
23 contribution to economic growth clearly would not have

1 occurred had the Internet industry been hampered by burdens  
2 of telephone-like regulation or access charges. Indeed,  
3 competition has kept innovation moving at lightening speed  
4 and has brought prices for Internet access down to levels  
5 that affordable to middle class Americans.

6 It is critical, therefore, that as the Commission  
7 examines the regulatory structure of universal service, that  
8 it not heath suggestions to burden the internet with  
9 regulations. Indeed, the '96 Act was intended to diminish  
10 Government intervention in all communication sectors, not to  
11 bring new and innovative industry into the falls of an out-  
12 loaded regulatory regime designed for monopoly environments.

13 The Act makes clear that the universal service  
14 provisions must be implemented on a competitively neutral  
15 basis and that only telecommunications carriers are subject  
16 to common carrier regulations and can be required to  
17 contribute directly to the universal service fund. The  
18 Commission's implementation of the Act took both of these  
19 commands into account.

20 First, the Act requires competitive neutrality.  
21 The FCC could have approached this in two ways, either by  
22 excluding internet access from the bundle of services  
23 available to our nation's children through schools and

1 libraries or by including Internet access and permitting all  
2 providers to participate.

3           What the Commission was not able to do under the  
4 Act was to include internet access but permit only  
5 telecommunications carriers to provide that access. The  
6 Commission chose wisely understanding that for our nation's  
7 schools and libraries to have access to the vast resources  
8 of the internet, they must be able to receive discounted  
9 services for both Internet access and telecommunications  
10 services.

11           Second, the Commission correctly recognized that  
12 the plain language of the Act does not contemplate that  
13 providers of enhanced or information services would  
14 contribute to the fund directly. However, those providers,  
15 like other businesses, use telecommunications services to  
16 reach their customers. As such, enhanced service providers  
17 already support universal service through the rates we pay  
18 to telecommunications carriers.

19           For example, a significant percentage of America  
20 Online's costs are related to the purchase and lease of  
21 telecommunications capabilities we need to enable our  
22 customers to take advantage of the information services we  
23 offer. All of the charges we pay include universal service

1 contributions. Such is also the case with businesses like  
2 United Airlines, for example, which now provides software  
3 for customers to dial into a network for airline schedules  
4 and reservations. And in fact, the Commission should do  
5 more to make these charges explicit to illustrate just how  
6 significant the contribution of online businesses already is  
7 to universal service framework.

8 Congress in an effort to codify the market-driven  
9 policies that the Commission had been putting into place  
10 over the last decade specifically defined telecom. services  
11 and information services in the Act. Each of these terms --  
12 each of these terms has a specific meaning. And while they  
13 bear a close relationship, they are clearly distinct.

14 It is critical to note that the definition of  
15 information service refers to telecommunications, and I  
16 emphasize, as the medium by which information services are  
17 offered. Telecommunications services are regulated;  
18 information services are not reflecting the historic  
19 distinction between basic and enhanced services.

20 While we believe that these distinctions are  
21 clearly settled, there has been some debate about the  
22 classifications of ISPs due in part to the media attention  
23 being paid to internet telephony.

1           As with the advent of many new technologies over  
2 the years, there are powerful statements by entrenched  
3 incumbent service providers that these new services will  
4 threaten to sell their businesses. Yet as television did  
5 not kill movie theaters, as cable did not kill broadcasting,  
6 and the movie industry has thrived in the face of home  
7 video, it is more likely that internet telephony will simply  
8 drive innovation and competition in the telephony  
9 marketplace and grow that market in a manner where  
10 incumbents and newcomers alike can prosper.

11           Again, we believe that the Commission's 1997  
12 decision on universal service was consistent with both the  
13 language and the purpose of the '96 Act. Any attempt to  
14 modify the decision in a manner which would subject the  
15 internet to regulation would be both inconsistent with  
16 Congressional intent we believe, and have potential far-  
17 reaching implications for the future of this important  
18 medium. I thank you for the opportunity to be here today.

19           CHAIRMAN KENNARD: Thank you. Mr. Hostetter.

20           MR. HOSTETTER: Thank you. My name is David  
21 Hostetter. I work for SPC Communications. There are three  
22 universal service issues that I'll talk about today. The  
23 first one is the internet telephony issue and the

1 requirements to contribute to universal service funding; the  
2 ESP exemption issue, which I consider it to be a companion  
3 issue; and who should support -- or who should receive  
4 universal service support.

5           The initial appeal of internet telephony has been  
6 it's potential for providing lower long distance prices. On  
7 its face, it doesn't seem like a bad idea. In fact, a lot  
8 of consumers would probably like that. But the challenge is  
9 to ensure that universal service is not harmed by policies  
10 designed to promote internet telephony.

11           As a starting point, in general, consumers are  
12 going to access internet telephony primarily through the  
13 local exchange segment of the public switch telephone  
14 network while internet is going to provide for the  
15 interstate or international transport vehicle for the calls.

16           The internet service providers will probably argue  
17 that internet telephony is an information service, probably  
18 to avoid contributing to federal universal service support  
19 mechanisms. Acceptance of this argument jeopardizes  
20 competitive neutrality because the way our current funding  
21 mechanisms work, interstate and international services  
22 provided through traditional technologies are exactly the  
23 mechanisms that are funding universal service.

1           The ESP exemption further compounds the  
2 competitive neutrality problem because internet service  
3 providers generally incur lower costs than inter-exchange  
4 carriers because they're paying local business line rates  
5 for the interstate access. And those access charges that  
6 the LEX are recovering from inter-exchange carriers for  
7 access to the premises are being used as the LEX funding  
8 mechanism for universal service.

9           I think, as we mentioned a little earlier, the  
10 marketplace is responding. Inter-exchange carriers are  
11 formulating their business plans to try to take advantage of  
12 the same ground rules internet service providers are  
13 attempting to finesse. It doesn't seem that the FCC should  
14 establish a competitive advantage for internet service  
15 providers to the detriment of affordable universal service.

16           The way to solve it, we think, the FCC's orders  
17 and the Act's definitions provide for a solution. There is  
18 a definition of telecommunications in the Act that provides  
19 that any transmission of information without change in  
20 format or content is considered telecommunications and it  
21 drives all the way up to the point of a telecommunications  
22 carrier definition that -- that basically says  
23 telecommunications for a fee is what makes your

1 telecommunications carrier.

2 Internet telephony should constitute a  
3 telecommunications service because there is no change in  
4 format. It's voice in and voice out. Therefore, internet  
5 telephony doesn't meet the Act's definition of an  
6 information service.

7 With certain exemptions, any provider of  
8 telecommunications to the public for a fee is a  
9 telecommunications carrier. So internet service providers  
10 that offer telephony on an interstate basis over the  
11 internet for a fee should be considered telecommunications  
12 carriers and should have to contribute to the federal  
13 universal service funding mechanisms that are provided for  
14 in Section 254(d).

15 An internet service providers that offers  
16 telephony as a telecommunications carrier is not necessarily  
17 always a telecommunications carrier when it offers services  
18 that meet the information services definition. The public  
19 interest doesn't justify discriminatory interstate access  
20 price structure for ESPs. We think the ESP exemption should  
21 be replaced with interstate access price structure that  
22 encourages carriers to deploy data network alternatives to  
23 the circuit-switch network, and most importantly,

1 financially motivates ESPs to make the most efficient use of  
2 service selections.

3 Finally, who is eligible to receive universal  
4 service support? We think the Act is clear. It's  
5 telecommunications carriers, in the one case that meets the  
6 214(e) obligations; in the other case, under 254(h), it's  
7 any telecommunications carrier that provides its services to  
8 qualified schools and libraries.

9 Information -- information service providers and  
10 providers of other types of non-telecommunications services  
11 by definition do not qualify for universal service support  
12 under 254(e) or 254(h), just as they aren't required to  
13 contribute.

14 Internet service providers that offer  
15 telecommunications services, however, may also receive  
16 support when they are designated eligible telecommunications  
17 carriers under 214(e) or if they act as a telecommunications  
18 carrier providing -- okay --

19 CHAIRMAN KENNARD: You can finish your sentence.

20 MR. HOSTETTER: Okay. Thank you. -- providing  
21 universal service to qualifying schools and libraries under  
22 254(h). Thank you.

23 CHAIRMAN KENNARD: Thank you. Mr. Dix.

1 MR. DIX: Thank you, Chairman, and I would like to  
2 thank the Commissioners for the opportunity to present our  
3 views and to reaffirm my colleague from AOL's point, that  
4 universal service is a worthwhile societal goal and one that  
5 we support and one that my company directly contributes to.

6 Now, I -- I am vice president of large account  
7 marketing for LCI. And as such, I am a marketing type,  
8 therefore, given to hyperbole and emotional exaggeration.  
9 I'm talking about a legal point, so I hope you will indulge  
10 me because it makes our lawyers very nervous when marketing  
11 types do that.

12 (Laughter.)

13 However, we think the Commission has to consider  
14 down to a regulatory issue -- back to Commissioner Ness'  
15 point about what is the definition of a telecommunications  
16 service provider. If you go to Section 254(d) of the '96  
17 Act, it says the people who contribute to universal service  
18 are "every telecommunications carrier that provides  
19 interstate telecommunications. That's who shall  
20 contribute."

21 Now, the question before you I believe is are  
22 internet service providers interstate telecommunications  
23 providers. Well, if you believe in the projections for the

1 voice-over-IP or voice-over-the internet/telephony market, I  
2 heard a lot -- I heard it's a hobby and it's a hobbyist  
3 tool. The fact is IDC, who is the leading research firm in  
4 our business, projects that by the year 2002, one-third,  
5 roughly 25 billion of the 77 billion dollars in UST/US long  
6 distance calls will be carried over IP packets. This is  
7 not, ladies and gentlemen, a hobby. This is in fact a very  
8 strategic line of business to the internet service  
9 providers.

10 Now, being a marketing guy, I will add some  
11 anecdotal proof. Today, PSI Net who is the largest  
12 independent internet service provider, a tier one service  
13 provider, based in Herndon, Virginia released this press  
14 announcement. I would like to read an excerpt from it. I  
15 think it would be illustrative.

16 "John Maleta joins PSI Net as vice president in  
17 the newly-formed PSI Net Telecom Limited subsidiary  
18 announced February 11th, 1998. Maleta comes to PSI Net  
19 after a distinguished tenure with the Federal Communications  
20 Commission working most" -- "and most recently served as  
21 deputy chief of the Common Carrier Bureau." Interesting.

22 "Maleta's major responsibilities at PSI Net will  
23 include managing the planning, operational and legal issues

1 associated with the establishment of PSI Net Telecom  
2 Limited." Ladies and gentlemen, the ISPs are calling  
3 themselves telecoms. That's the reality. They are saying  
4 they are telecommunications providers. And as such, I do  
5 not understand under which legal or technological construct  
6 they can claim any exemption from their contribution to the  
7 universal service fund.

8           Now, that being the case, if this is allowed to  
9 stand -- the technological definition of telecom goes back  
10 to a 20-plus-year-old Section 153, Sub 43 of the Act which  
11 defines telecommunications as "the transmission between or  
12 among points specified by the user of information of the  
13 user's choosing," and I emphasize, "without change in the  
14 form of content in the information as sent and received."

15           Now, the packetization of voice in an IP packet,  
16 whether it's carried via frame relay or ATM or circuit  
17 switching, all of the layer II technologies, is nonetheless  
18 not changed in any substantive form relative to the  
19 transmission of a voice over a circuit. In other words, we  
20 purport and believe we can argue technologically that there  
21 is by stricture of this definition no difference between a  
22 voice that is carried over the LCI circuit-switch network  
23 and the internet service providers' packet network.

1           In fact, if the voice sounds the same on both ends  
2           or if the picture looks the same, then there is no  
3           measurable difference in basic service. And if they meet  
4           the basic service requirement, then we refer back to the  
5           fact that they meet the telecommunications definition as  
6           specified in the Act of 1996.

7           So we sit here and are making business decisions  
8           based on some very clear advantages given to our stated  
9           competitors. And that is we are paying into the universal  
10          service fund which we accept our responsibility for, but we  
11          are paying to my colleague from Southwestern Bell's point 25  
12          billion dollars a year in access charges which our friends  
13          are exempt from.

14          So when you look at both of these, we believe from  
15          a business, legal and technological construct, we are asking  
16          only for an equal playing field in this. We are being  
17          forced into making decisions around -- oh, time is up?  
18          Thank you very much.

19                 CHAIRMAN KENNARD: You can sum up if you like.

20                 MR. DIX: Yes, I would. There is -- oh, okay.  
21                 There is no distinction, ladies and gentlemen, any more  
22                 between the internet service provider and a common carrier.  
23                 We are both the same type of carrier and therefore should be

1 subjected to exactly the same type of regulation. Thank you  
2 very much.

3 CHAIRMAN KENNARD: Thank you, Mr. Dix. Mr.  
4 Evslin.

5 MR. EVSLIN: Thank you. Thank you, Mr. Chairman  
6 and Commissioners. My name is Tom Evslin. I'm the chairman  
7 and CEO of ITXC Corp. We're carriers -- a carrier of IP  
8 telephony, so we're clearly in the IP telephony business.  
9 Before I founded ITXC, I worked for AT&T. I hope you don't  
10 find anything suspicious in that.

11 CHAIRMAN KENNARD: I do not.

12 MR. EVSLIN: Good.

13 (Laughter.)

14 MR. EVSLIN: Before that, I worked for Microsoft,  
15 but that didn't make AT&T a software company.

16 (Laughter.)

17 MR. EVSLIN: And I was responsible for AT&T's Well  
18 Net Service (phonetic) which is of course an internet  
19 service provider. I am not speaking in any way for AT&T  
20 however. I'm speaking for ITXC.

21 I think Commissioner Powell framed the question  
22 very well. The question is how do we fund universal  
23 service; how do we meet those very good public policy

1 objectives without dropping a regulatory mountain on top of  
2 new and innovative industries and crushing those industries  
3 under that regulatory mountain?

4           It would be very ironic if the result of  
5 collection for the universal service fund was to frustrate  
6 the public policy goals which led to formation of the fund  
7 in the first place. It would be very ironic if in  
8 collecting for the universal service fund, we assured that  
9 telecommunications remained so expensive that lots of people  
10 needed a subsidy in order to be able to take advantage of  
11 it.

12           So far, the ISP industry and the related  
13 industries have vastly improved communications and improved  
14 communications everywhere. A web site is equally accessible  
15 from Nebraska and from New York City. E-mail gets around  
16 the world instantly and it's cheaper than snail mail. It  
17 knits the world together. And these improvements in  
18 communications -- actually, we've even seen that in  
19 households that are fortunate enough to have internet  
20 access, there's less TV watching. And all of a sudden,  
21 people choose to be more interactive, to communicate more.

22           These good developments are largely the result of  
23 the benign non-regulation from the FCC in years past. This

1 innovation, which has occurred largely in the United States,  
2 is because the United States has taken such an enlightened  
3 position towards not dropping a mountain of regulation on  
4 new and innovative industries. So it's important now that  
5 we don't erect a regulatory mountain in the way of these new  
6 industries.

7           There are those in the regulated industries -- or  
8 the regulated industries really haven't been so innovative.  
9 We haven't -- in 20 years, the regulated telecommunications  
10 industry hasn't even managed to get ISDN widely disbursed.  
11 When Americans want faster internet access, they're  
12 frustrated in that by the last mile which hasn't improved in  
13 years despite huge subsidies from access -- from access  
14 charges.

15           And so the -- and you can -- that's because the  
16 people in those regulated industries are any worse are any  
17 worse than the people in the non-regulated industries that  
18 argue it's because of the regulation and it's because of the  
19 monopolies that have flourished and still continue to  
20 flourish as a result of that regulation.

21           The regulated industries have managed to frustrate  
22 the intent of the Telecommunications Reform Act of 1996. So  
23 we still haven't gotten the competition that Act envisions.

1 It is true that de-regulation has let a genie out of the  
2 bottle. But it's a very good genie. It's a genie that's  
3 resulted in creating a lot of jobs, some of those jobs  
4 through people who have been laid off by the downsizing  
5 regulated industries. It's a genie that's resulted in  
6 better communications. It's a genie that's resulted in  
7 lower price communications.

8           And yet there are those who would like you to put  
9 that genie back in the bottle again and make sure that this  
10 pesky innovation stops and doesn't continue to upset the  
11 status quo. That would be a terrible mistake. The issue is  
12 not four percent. And didn't found my company so that the  
13 ten cent phone call could become a 9.6 cent phone call.  
14 That isn't of interest to anybody. It's not to escape  
15 paying four percent fair share to the universal service  
16 fund.

17           Internet telephony is to a large part about price,  
18 but not completely; but not taking four percent off the  
19 price, 50 percent off the price, 75 percent off the price of  
20 international communication. Not by not paying our fair  
21 share, but because the technology is better; because the  
22 investment that's being made in that technology reduces the  
23 price for everyone.

1           It's also about enhanced service, as Jeff said;  
2     the taking of the power, the graphic power, the written  
3     power of the worldwide web and combining that with the power  
4     of the human voice.

5           So I would urge the Commission, quickly, to do two  
6     things: To finish the de-regulation of the traditional  
7     industry so they can compete and be as innovative as the new  
8     industries. They shouldn't have to labor under the handicap  
9     of continuing regulation and monopoly domination. Don't  
10    confuse access charges with universal service funding.  
11    Don't impose non-economic access charges on new industries.  
12    Take them off of the old industries. And finally, after  
13    that de-regulation has occurred, after we've cleared up what  
14    truly is funding for universal service, then by all means  
15    impose it equally on all industries which benefit from the  
16    universal service fund. Thank you very much.

17           CHAIRMAN KENNARD: Thank you. Mr. Symons.

18           MR. SYMONS: Thank you, Mr. Chairman, Commissions.  
19    My name is Howard Symons. I'm an attorney with the  
20    Washington D.C. law firm of Mintz, Levin. I'm here to  
21    represent the National Cable Television Association. And on  
22    behalf of NCTA, I would like to thank you for including the  
23    cable industry in today's en banc session.

1           Cable companies pioneered distance learning  
2 services and more recently have begun to provide schools and  
3 libraries with high speed access to the internet. As of  
4 September 1997, cable operators large and small had  
5 connected more than one thousand schools to the internet  
6 with high speed connections.

7           Congress has asked the Commission to review its  
8 implementation of the universal service provisions added by  
9 the 1996 Telecommunications Act. Congress did not, however,  
10 direct the Commission to revise its policies and rules  
11 regarding universal service or to extend its current system  
12 for regulating telecommunications to internet access or  
13 other online services.

14           Congress explicitly distinguished between  
15 information services and telecommunication services to  
16 reflect the distinction between the offering of pure  
17 transmission capacity and the enhancement of that  
18 transmission capacity even where there is no addition of  
19 content or change in the information being transmitted.

20           While information service providers may use  
21 telecommunications to deliver service to end-users, that in  
22 and of itself does not transform an information service into  
23 a telecommunication service. The statutory distinction

1 adopted from the modification of final judgement is also a  
2 logical extension of the dichotomy between basic and  
3 enhanced services that this Commission articulated in its  
4 Computer II orders.

5           Reclassifying internet access and other online  
6 services as telecommunications in order to bring them within  
7 the universal service contribution requirement could  
8 unnecessarily subject these services to regulation as common  
9 carriers, a development that could devastate the growth of  
10 internet services and prove to be highly unenforceable with  
11 no corresponding consumer benefit.

12           Congress has also asked the Commission to review  
13 its decisions on who must contribute to the universal  
14 service fund and who is eligible to receive money from the  
15 fund. In NCTA's view, the Commission correctly determined  
16 that all providers of advanced telecommunications and  
17 information services for schools and libraries are eligible  
18 to receive funds. Section 254 explicitly requires the  
19 Commission to establish competitively neutral rules to  
20 enhance access to these advanced services for schools and  
21 libraries.

22           The statutory requirement for competition  
23 neutrality prevents the Commission from limiting eligibility

1 for universal service support to common carriers and their  
2 affiliates. The limitation on eligibility for basic service  
3 support contained in a different provision of the law simply  
4 does not apply to the provision of access to advanced  
5 services.

6 Competitive neutrality is also sound policy. The  
7 broad eligibility that follows from competitive neutrality  
8 enables schools and libraries to choose from the widest  
9 array of providers of advanced services. For example, cable  
10 modems can provide internet access at speeds up to 50 times  
11 greater than conventional phones lines or ISDM. In one case  
12 in Nebraska, Galaxy Cable was able to provide high-speed  
13 distance learning capabilities for 30 percent less than the  
14 price quoted by the local telephone company.

15 The 1996 Act does not say that only those who pay  
16 into universal service may take out. Not even  
17 telecommunications carriers are required to contribute to  
18 universal service on the basis of their internet access  
19 revenues, for instance, even though their Internet services  
20 are eligible for universal service support.

21 In fact, the cost of universal service had  
22 historically been borne by customers and carriers who do not  
23 receive commensurate universal service funds. Long distance

1 carriers have long subsidized local telephone companies.  
2 Subscribers in low cost areas have always subsidized high --  
3 high-cost service areas.

4 I would hasten to add though that an increasing  
5 number of cable companies and their affiliates engaged in  
6 providing telecommunications services are already  
7 contributing to universal service, and in some cases,  
8 substantial sums to the universal service fund. These  
9 contributions will only increase as cable's  
10 telecommunications offerings grow.

11 In sum, the universal service order got it right.  
12 The Commission's interpretations of the law and its  
13 decisions in that order are consistent with the plain  
14 language of the Act and will further the goals for universal  
15 service. Thank you again for the opportunity to appear. I  
16 look forward to questions.

17 CHAIRMAN KENNARD: Thank you. Mr. James.

18 MR. JAMES: Thank you, Mr. Chairman and  
19 Commissioners. My name is John James and I am in my second  
20 year as the principal and superintendent of Central Catholic  
21 High School in West Point, Nebraska. Unlike the others on  
22 this panel, I am not a lawyer; I am not a telecommunications  
23 regulation expert; and it would be inappropriate for me to

1 offer opinions on legal definitions or technical views on  
2 the intricacies of certain technology.

3 I am here to speak about the students who will be  
4 directly affected by the historic action taken by Congress  
5 and the communication regarding the E-rate and internet  
6 access. I care deeply about this proceeding because I know  
7 how important the internet and education technology are to  
8 my students and to my rural community.

9 Central Catholic is located in Cumming County,  
10 Nebraska, a county that leads the state of Nebraska in  
11 cattle-on-feed and non-irrigated corn production. It is  
12 second in the state of Nebraska in hog inventory, sows  
13 burrowed and pig crops saved. I'm sure that means a lot to  
14 you people out here.

15 (Laughter.)

16 CHAIRMAN KENNARD: That's what we eat.

17 (Laughter.)

18 MR. JAMES: The county has 1,090 farms and a  
19 population of 10,117 people. West Point is the largest town  
20 in Cumming County with a whopping population of 3,250  
21 people. 25.9 percent of the K through 12 student population  
22 of Cumming County attend private schools. In my school, 40  
23 of our 156 students are recipients of the Federal

1 Government's free and reduced lunch program.

2 Central Catholic is a private school that charges  
3 a nominal tuition and runs on a very tight budget.

4 While the internet has been around in larger  
5 cities for several years, it just entered rural Cumming  
6 County in 1996 through the enterprising efforts of a local  
7 service provider. Central Catholic quickly added a phone  
8 line and purchased the software necessary to access the  
9 internet. Since then, my teachers and students have made  
10 continual use of our internet connection.

11 Using the Internet, my Spanish teacher has been  
12 able to access newspapers and magazine articles written in  
13 Mexico and Spain which provide her students with the  
14 experience in translation as well as the international  
15 perspective on world events. My chemistry teacher has  
16 students visiting periodic table web sites to access  
17 substantial amounts of information on the various elements.  
18 They are also learning about the chemistry of consumer  
19 products by accessing the web pages of various household  
20 cleaners and medicines.

21 My rural geography teacher has said that the web  
22 has provided his students with more information on the  
23 various country studies than can be found in any high school

1 textbook. My American history teacher was able to show her  
2 students how The Wizard of Oz, written in 1900 was really a  
3 fable of the populous movement alliance between mid-western  
4 farmers, the scarecrow, the urban industrial workers, the  
5 tinman, and William Jennings Bryan, the cowardly lion, who  
6 challenged the large industrial corporations and eastern  
7 finance organizations, the wicked witch of the East.

8 (Laughter.)

9 We are at the point where we know we much provide  
10 our students with more access to the web but are at a loss  
11 as to how to pay for this access. We must operate our  
12 school without the benefit of state aid or even state  
13 lottery money that has been designated for educational use.  
14 The only state assistance we receive is the minimal  
15 allotment of textbooks valued at approximately \$2,000.00 per  
16 year.

17 It doesn't seem to matter that we educate 25.9  
18 percent of the K-12 student population in Cumming County or  
19 that 25.6 percent of these students come from low income  
20 families that qualify for free and reduced lunch. I am  
21 embarrassed to report that in Cumming County, Nebraska, the  
22 educational needs of low income students are being ignored  
23 by the state because their parents have exercised their

1 First Amendment right to educate their students in a  
2 Catholic or Lutheran school.

3 We have considered the purchase of router, hubs,  
4 infrastructures necessary to have multiple access to the  
5 Internet from several rooms. But such a solution would cost  
6 us nearly \$20,000.00. Since we are a rural school with a  
7 significant free and reduced lunch population, we would get  
8 a 60 percent discount on our phone service, the router hubs  
9 and all of our infrastructure according to the discount grid  
10 promulgated by the schools and libraries corporation. Such  
11 a discount has provided us with the incentive to move  
12 forward with our technology plans.

13 To me, the E-rate is about local choice for  
14 schools and competition for the service providers. Choice  
15 is fundamental to this program. Central Catholic High  
16 School and Guardian Angels Grade School have filed jointly a  
17 470 form for the discount on our phone lines and our  
18 existing contract with NAVIX (phonetic), our internet  
19 service provider. We have also filed jointly with the  
20 Southeast Nebraska Distance Learning Consortium for the  
21 purchase of routers, hubs and infrastructure necessary to  
22 wire our school.

23 Other schools want and need different services.

1 The beauty of this program is that the local school may  
2 choose what it needs. Nothing is mandated. Nothing is  
3 imposed.

4 I read in the February 17th edition of "USA Today"  
5 that the number of businesses are balking at the fee used to  
6 fund E-rate. Oh, how history repeats itself. Nearly one  
7 hundred years ago, the large industrial corporations and  
8 eastern finance organizations were embodied by Limon Frank  
9 Bonn (phonetic) as the now familiar wicked witch of the East  
10 in the children's fable, The Wizard of Oz. What diabolic  
11 caricature must we now invent in the twentieth century to  
12 depict those businesses that wish to shirk their  
13 responsibility to the children of this nation by pulling a  
14 plug on the E-rate discount. Thank you.

15 CHAIRMAN KENNARD: Thank you very much, Mr. James.  
16 And thank you for traveling here from so far to be with us  
17 today. We now have about 45 minutes for questioning from  
18 the Commissioners. I would like to start off by asking a  
19 question. And I'll just pose it to anyone who cares to  
20 answer it.

21 The definitions in the statute are obviously very,  
22 very important. And without diminishing their importance, I  
23 just want to put them aside for a second and ask a question

1 of policy. I'm wondering why this agency as a matter of  
2 policy should draw any regulatory distinctions between  
3 technologies when the consumers are -- of that technology  
4 are receiving essentially the functionally equivalent  
5 technology.

6 For example, why should we make any regulatory  
7 distinctions between a regular analog telephone call and an  
8 internet call whether it's -- particularly if it's phone-to-  
9 phone, but whether it's phone-to-phone or phone-to-PC or PC-  
10 to-PC? From the consumer's point-of-view, the consumer is  
11 getting essentially the same functional service. Would  
12 anyone care to take a stab at that one? Mr. Evslin?

13 MR. EVSLIN: Thank you. I would debate part of  
14 that question. I think when the call is computer-to-  
15 computer or computer-to-phone, the consumer is often  
16 receiving a very different service than they would receive  
17 on the phone alone. If somebody is surfing the web and in  
18 conjunction with what they see on their computer, wants to  
19 talk to a human attendant in a call center, have the  
20 attendant in the call center say, see, look at this page and  
21 look at that page, that's something that is impossible to do  
22 on the telephone.

23 And so although a component of that service is the

1 human voice, it's a service that's very different for what  
2 is delivered or can be delivered on the plain old voice  
3 network. I think though when you ask the question about  
4 phone-to-phone, then it's more germane and deserves a clear  
5 answer. And I think that the phone-to-phone service is just  
6 the beginning -- the phone-to-phone service when it's  
7 provided by IP -- of a much better service than circuit  
8 switching can ever deliver.

9           It may be that today, particularly when it's  
10 limited by the miserable circuit-switch last mile that's  
11 available, that it can't deliver its full potential. But  
12 its promise is for conference calling, for example, that  
13 doesn't require one of the six people in the world who knows  
14 how to set up a conference call. It has a promise for  
15 enhanced applications where a phone call can start as two  
16 people talking to each other, but where a computer or a  
17 digital camera or any other relevant device can be added.

18           In other words, although this service may  
19 initially look something like a low-cost version of current  
20 telephony, it's really the beginning of something much, much  
21 better. And if the regulation -- if the Commission allows  
22 it to be swept up in outmoded regulations or allows it to be  
23 smothered by those who would prefer not to be challenged

1 that way, then from a public policy point-of-view, we won't  
2 get the benefit of the wonderful new applications that can  
3 be developed.

4 And I think that's what justifies the Commission  
5 assuring that regulations that were meant for traditional  
6 phone service don't end up dropping a regulatory mountain,  
7 in Commissioner Powell's words, on top of new and innovative  
8 services just as they begin to develop.

9 MR. DIX: May I answer, Mr. Chairman?

10 CHAIRMAN KENNARD: Mr. Dix, yes.

11 MR. DIX: Thank you. With all due respect to my  
12 colleague, the reality is -- is that the internet access  
13 medium is simply a transmission medium no different from the  
14 switched telephone medium. In your example, which again  
15 with all due respect is wrong, the fact is if you had a  
16 modem attached to a web server -- and as we know, the web  
17 which is commonly thought of as the internet, is really  
18 27,000 mostly private computers attached to the internet.  
19 It's a distinction.

20 It could be dialed into with a regular telephone  
21 line and accessed in the same way it is over the internet.  
22 The fact is that the internet is a more efficient way of  
23 reaching that machine. It is not a technologically enhanced

1 way to reach that machine. And that is a very important  
2 distinction because what it means is we're both providing  
3 the same type of service, i.e., we're providing  
4 interconnection into that web machine. One is being through  
5 the circuit-switch network. One is being through the web  
6 service -- I mean one is being through the internet.

7 But the fact is the web server communicates with  
8 my machine as a client/server type of arrangement regardless  
9 of the transmission medium. So it really has nothing to do  
10 with the internet providing some type of enhanced service.  
11 It does not because the Internet is not the worldwide web.  
12 The worldwide web is 27,000 mostly private machines.

13 It is not the three million machines that are  
14 attached to it. It is in effect most strictly, I believe,  
15 in my interpretation, the 40 percent National Science  
16 Foundation Network and 60 percent ARPA network of switches  
17 and transmission lines that facilitate IP packets to the  
18 27,000 web servers or three million machines that are  
19 attached to the internet.

20 So my point is, is that claiming that the internet  
21 is an enhanced service is I think technologically incorrect.

22 MR. EVSLIN: Mr. Chairman, may I reply for a  
23 second?

1           CHAIRMAN KENNARD: All right. Go ahead.

2           MR. EVSLIN: I'm afraid that response is  
3 technically incorrect. First of all, the ARPA net doesn't  
4 exist anymore. And the internet is provided by private  
5 providers. But much more important than that, the internet  
6 is a vastly enhanced service over circuit-switch telephony.  
7 It's not just a cheaper way to deliver communication.

8           The important difference, in circuit switching, a  
9 dedicated connection is established between two points.  
10 That connection uses up line space for the entire duration  
11 of a telephone call. Excuse the engineering explanation.  
12 But what's important about it is that because of the  
13 technology of IP, because there is no dedicated connection,  
14 then great advances like the worldwide web are possible.  
15 It's possible to click on one site in New York and suddenly  
16 be looking at a site in Asia. That kind of thing can happen  
17 on the circuit-switch network.

18           And so the internet, the internet which is mainly  
19 a private network in the United States but publicly  
20 accessible, is the basis for a whole set of rich and  
21 enhanced applications that circuit-switching is simply  
22 incapable of providing. Not only is it cheaper -- which it  
23 is -- but the whole mechanics, the whole engineering of IP

1 make possible these services that are not possible on  
2 circuit switching. And that's why it's so important that  
3 these new services not be crushed as they develop.

4 CHAIRMAN KENNARD: Mr. Comstock.

5 MR. COMSTOCK: Thank you, Mr. Chairman. As a  
6 policy matter, I just would like to point out there seems to  
7 be a lot of concern that if you do something to bring  
8 internet into -- or internet access, more specifically, into  
9 a telecommunications service, you're suddenly going to  
10 impose massive amounts of regulation. I think that's only  
11 the result if the Commission fails to exercise its Section  
12 10 forbearance authority.

13 That section was added specifically in the 1996  
14 Act in recognition of the fact that we were going to sweep  
15 in more people, and it allows you to craft a regime that's  
16 appropriate for the technology involved. The reason that it  
17 says that anybody who is providing a telecommunications  
18 service shall also be treated as a common carrier was to  
19 prevent large operators, like the ARBOCs, from simply  
20 saying, "I'm not a telecommunications carrier and not a  
21 common carrier," and suddenly getting out from all the  
22 existing rules and regulations. You were given the  
23 flexibility to do this.

1           Let me speak briefly to two other points that were  
2 raised. There's obviously a lot of confusion about what the  
3 Internet is. I think as many of us have been involved in  
4 the debate over Internet taxation know, the internet is  
5 really simply a set of protocols. It is a means of  
6 transmitting information. That is used to interconnect a  
7 large number of machines, as has been pointed out.

8           The Defense Department pays for some of that.  
9 There is federal money going to pay for some of the rest of  
10 it even though these nets are being phased out.

11           But I think the most important point for everybody  
12 here including the schools and libraries people is how do  
13 you reach that last mile. And the bottom line is packet  
14 switching is not more efficient for getting to the home.  
15 You've got a single circuit that's going there. And in most  
16 cases, nobody else is trying to use it. So the fact that  
17 you have packet switching is irrelevant. That's only  
18 important if you've got multiple pathways to the same  
19 location.

20           So this efficiency argument that the internet  
21 advances is really a misnomer. The expensive piece of the  
22 network, the part that nobody is able to duplicate -- hence  
23 we have no competition today -- is that last mile. It's

1 from the central office to the house. That's what universal  
2 service is supposed to support.

3 And for the schools and libraries, I mean, that  
4 was an excellent presentation. We all support it. But how  
5 do your students get the internet to the home and where are  
6 we going to be five years from now if they continue to only  
7 get plain old voice service and can't get internet access at  
8 the home? You can't do much learning at home once -- you  
9 know, if all you can do is get it at school.

10 CHAIRMAN KENNARD: Ms. Dyson.

11 MS. DYSON: Okay. I just want to make a couple of  
12 points. First, it's not strictly true in the end, the  
13 advantage of internet telephony is that you can use that  
14 single line to the home and get both voice and data  
15 simultaneously. That -- that's a great advantage.

16 But what I really wanted -- I wanted to ask a  
17 question to which I'm not expecting a straight answer. But  
18 nonetheless --

19 (Laughter.)

20 -- internet telephony basically has two benefits.  
21 One, it is in fact a more effective use of capacity because  
22 that's what packet switching is all about. But it also  
23 benefits from being out from under various regulatory

1 requirements and access charges. It obviously -- the  
2 difference is much greater when you're talking about  
3 international telephony when the prices are much greater.

4 But can you give us some sense of what the -- how  
5 much is due to the one and how much is due to the other?  
6 When we have a truly efficient market-based pricing scheme  
7 for regular telephony, what will be the advantages of IP  
8 telephony?

9 MR. EVSLIN: Yes, let me answer that. Today if  
10 both were on purely a market-based basis, the cost of IP  
11 telephony, the true engineering costs, might -- for similar  
12 services -- let's ignore the fact that it can be used for  
13 much better services that can't be provided -- might be as  
14 little as 25 percent better than for traditional circuit  
15 switching.

16 But that's today because the technology with IP  
17 telephony is about is substituting computer power for  
18 bandwidth. And by Moore's law, we know that the price of  
19 computer power keeps getting cut in half every year and a  
20 half. So today's economics that favor IP telephony become  
21 much more favorable as we move forward.

22 Also, as much more of the communications broadly  
23 (inaudible) is data communications, then the data network,

1 even without this whole discussion, just gets bigger than  
2 the voice network. And so the economic advantage of piggy-  
3 backing on the data network as opposed to having a separate  
4 voice network is much, much greater. And then of course  
5 there's this enormous potential for developing applications  
6 because voice and data are now in the same format and on the  
7 same network as each other instead of being on separate  
8 networks.

9 To use -- to give you a straight answer to the  
10 first part of your question, there is a huge arbitrage  
11 advantage in international IP telephony that most of the  
12 savings comes from arbitrage. And that's not surprising  
13 because most of the costs of international telephony come  
14 from the arbitrary accounting rate structure.

15 That's not true in domestic telephony. And I  
16 would argue that it suits the U.S. public policy and FCC  
17 policy to take advantage of that arbitrage to drive the fat  
18 out of the accounting rate structure, both in traditional  
19 telephony and in IP telephony so the people can make cheaper  
20 international calls and so the balance of payment stops  
21 getting damages by the funny accounting that goes on around  
22 call-back services.

23 CHAIRMAN KENNARD: Do we have any other questions

1 from the bench?

2 COMMISSIONER POWELL: I would like to go back to  
3 the boring legal question for a second. To what extent --  
4 and I guess this is really for you, Earl, I'm sorry -- but  
5 are we just quibbling over this definition because to what  
6 extent is it true that Congress has conferred to the  
7 Commission a fair amount of discretion in -- even if they  
8 are telecommunications carriers as to who contributes and  
9 who gets support?

10 As you note yourself, the provisions speak of an  
11 evolving -- it's not very clear. It sometimes says evolving  
12 level. But if you go on to read, it really does suggest  
13 that there is an evolving definitional exercise in  
14 determining what services are eligible for support and that  
15 the Commission in combination with the joint board is given  
16 the discretion to make those determinations and evolve them  
17 over time.

18 So that even if we did as you suggested and then  
19 said that an internet service provider was in fact providing  
20 a telecommunication service, we would still have legal  
21 freedom to make a policy determination as to whether the  
22 maturity of those services have reached a point where we  
23 either want them to contribute or we want them to gain

1 support.

2           You, yourself, suggest some discretion by pointing  
3 to Section 10 forbearance. But I would potentially argue I  
4 don't even need that provision. You know, and even in one  
5 spot, you know, in 254(f), we're specifically given the  
6 power to decide who else can be required to contribute if we  
7 determine the public interest.

8           MR. COMSTOCK: Well, as long as that person is a  
9 provider of telecommunications -- and I think -- I would  
10 argue that it's not a quibble because you -- the statutory  
11 definitions are specific. And as I said, some of this was  
12 the compromise that was reached between the house and the  
13 Senate as to how we were going to keep universal service  
14 within a contained amount of money.

15           What concerns I think many people is if you decide  
16 that these enhanced service can never by definition be a  
17 telecommunications service, then you're deciding something  
18 sort of so far down at the root of a tree that you never  
19 have those options that you just outlined later down the  
20 road.

21           If they are in fact providing telecommunications  
22 service -- and I think some internet services are primarily  
23 the transmission of the user's information without changing

1 the form or content -- those are telecommunications and  
2 therefore should be telecommunications services.

3           If you -- if you allow them to overlap and be in  
4 there, then you do have some of that discretion. Under  
5 Section 10, you have the clear authority to forebear from  
6 applying any provision of the Act to a telecommunications  
7 carrier, class or class of services. But I think when it  
8 came to, for example, the contribution requirement, the  
9 hurdle for you would be a little bit higher because the  
10 statute specifically says you're supposed to contribute.

11           Now, you could still find in the public interest  
12 and because of these other factors that are outlined in  
13 Section 10, you don't need to do that. But I think that you  
14 would have to make that exercise.

15           As to some of the other decisions, for example,  
16 the common carrier regulations that people keep referring  
17 to, I don't think the hurdle is very high at all because  
18 while Congress has said, yes, they shall be treated as a  
19 common carrier to the extent that they provide a  
20 telecommunications service, you can point back to the entire  
21 range of computer decisions and other things where you've  
22 already decided that these really are not common carrier  
23 services though they may in fact be telecommunications

1 services under the Act.

2 So I think the Act is structured in a way that  
3 gives you a little bit more flexibility. I don't think you  
4 have the flexibility under the evolving definition to decide  
5 that a service that you've announced today as an information  
6 service is later a telecommunications service.

7 I think that's where you get yourself into real  
8 trouble. It's -- where as if you said, for example, on  
9 internet access, you said, yes, it's a telecommunications  
10 service, then you go through the four hoops that are in --  
11 in (c)(1) -- 254(c)(1), you say, well, it's not available --  
12 it's not subscribed to by a majority of residential  
13 subscribers.

14 So therefore, it's out. We're not providing  
15 internet access as a basic supported service today. We may  
16 be tomorrow. And then when you jump down to the advanced  
17 services issue for schools and libraries, it's a no-brainer.  
18 You say, well, this is a service that is needed for schools  
19 and libraries and we're going to provide it because we don't  
20 have to jump through the same hoops as we do in (c)(4).

21 But I will disagree with Howard. I don't think  
22 your interpretation of (c)(3) is correct. It says, services  
23 referring back to universal service which is an evolving

1 level of telecommunications service. It doesn't give you  
2 the authority to jump out and say you can provide  
3 information services. Even (h)(2) is specific. It says,  
4 "access to advanced information services and  
5 telecommunication services."

6 So I mean I think you are bound by the statute and  
7 that's why it's important that you go all the way back to  
8 the definitions at the root and look carefully at where you  
9 draw the line there.

10 CHAIRMAN KENNARD: Let me follow up on the  
11 forbearance argument that you advanced. Assuming for the  
12 sake of argument that this agency, the federal jurisdiction  
13 were to deem internet services as telecommunications  
14 services and then forebear from this mountain of regulation  
15 on the theory that this is a evolving technology and we want  
16 to foster its growth.

17 What assurances would we have though that state  
18 jurisdictions would not -- having seen that the federal  
19 jurisdiction has deemed these telecommunication services,  
20 then impose their own mountain of regulation thereby  
21 defeating the whole theory of the forbearance argument?

22 MR. COMSTOCK: I would refer you to Section 10(e)  
23 which specifically says, "State enforcement after Commission

1     forbearance: A State Commission may not continue to imply  
2     or enforce any provision of this Act that the Commission has  
3     determined to forebear from applying under Subsection (a)."  
4     I think that covers it.

5             And also I would point out that today you have it  
6     both ways with respect to information services. On one  
7     hand, in 1983, you said these were all interstate services;  
8     states can't touch them. And then on the other hand, you  
9     say they're a local service and therefore they don't have to  
10    pay access charges. So clearly that's survived various  
11    challenge and has existed. But I think more specifically,  
12    10(e) protects you from exactly that possibility.

13            COMMISSIONER POWELL: Should I be troubled though  
14    by Section 232(b)(2) which says the Act generally affirms  
15    the Commission's policy by noting that -- well, "The United  
16    State's policy to 'preserve the vibrant and competitive free  
17    market that presently exists for the Internet unfettered by  
18    federal or state regulation' "? I don't know any area that  
19    is more laden with regulation than being a common carrier  
20    subject to those provisions. It seems that's an utterly  
21    inconsistent statement.

22            MR. COMSTOCK: I don't think it's inconsistent at  
23    all because, first of all, a policy statement does not trump

1 the statutory requirements of the Act. I would point out  
2 that earlier the House had specific language -- statutory  
3 language forbidding the Commission from regulating the  
4 internet. The Congress did not adopt that and never will  
5 adopt such a statement because blanket exemptions like that  
6 always get us into trouble.

7           So you have that general policy statement out  
8 there. And that to me then gives you even more authority  
9 under Section 10 to point back and say here's the reason  
10 Congress has said we don't want lots of regulation. So  
11 we're frankly going to decide that these internet services  
12 are telecommunications services. But the only provisions of  
13 the Act that may apply may be the universal service  
14 contribution.

15           Maybe it's the provision that protects customer  
16 privacy. It says you can't sell information that AOL or  
17 anybody else picks up. I mean, why shouldn't that apply?

18           Maybe the provisions regarding disability access  
19 should apply. But, I mean, you can go through the Act and  
20 decide what you want. And frankly, 230(b)(2) gives you  
21 plenty of authority then to say in addition to all of the  
22 other reasons we may have cited, here's the policy statement  
23 by Congress saying we should minimize any regulation of the

1 internet.

2 But it doesn't trump the statutory language that  
3 says certain things are telecommunications. We knew about  
4 the internet when we did the statute. And frankly, if you  
5 continue the basic and enhanced distinctions as you have  
6 them today, five or 10 years out there's going to be nothing  
7 that's telecommunications. So I fail to see how you would  
8 give any effect to the Act.

9 And frankly, it has a huge impact on local  
10 competition. The statute is very specific. You get access  
11 for the provision of a telecommunications service, not a  
12 telecommunications service and an information service. So I  
13 think at some point, the Commission runs a grave risk of  
14 hurting the other provisions of the Act that were carefully  
15 structured if you go down this path of saying only this very  
16 narrow class of services is in fact telecommunications  
17 service.

18 COMMISSIONER POWELL: But in the context of the  
19 provision that talks about evolving services, it does speak  
20 separately of telecommunications services and information  
21 services. I mean, in (c) -- I don't want to get hyper-  
22 technical -- but it says, "Evolving level of  
23 telecommunications services and the Commission shall

1 establish periodically under this section taking into  
2 account advances in telecommunications and information  
3 technologies and services."

4 MR. COMSTOCK: That's right, because again it's  
5 prefaced with the words "access to". And you want to have  
6 access to. You may need -- for advanced information  
7 services, you may need large bandwidth capacity. That's  
8 where the statement in the report is completely consistent.  
9 It may include dedicated data links. You may need a huge  
10 pipe. And if that's what the Commission decides you need,  
11 that's fine.

12 But again, it's -- it's -- there's a line drawn  
13 there. It's "access to". And as I said, to the extent the  
14 Commission decides that Internet access is a  
15 telecommunications service, you don't have any problem.

16 Your only problem when the thing has got you tied  
17 in knots is that you've drawn this old line, this pre-1996  
18 line, and tried to carry that forward and still get -- get  
19 -- as people I think rightly pointed out, you want  
20 competitors to be able to provide access to the internet.  
21 You don't want to limit that. But you do that by bringing  
22 more people into the definition of telecommunications  
23 carrier and then crafting the appropriate regime under

1 Section 10, not by trying to hide them in a definitional  
2 line down in Section 3.

3 CHAIRMAN KENNARD: Commissioner Ness.

4 COMMISSIONER NESS: Mr. Comstock, you point to the  
5 -- you point to the decisions in conference not to adopt  
6 specific language of -- on the House side. Can you point to  
7 specific language in the conference report that would  
8 clearly show that Congress intended to really restructure a  
9 regime that has been in place for an extended period of  
10 time, expressly so?

11 In other words, we had for -- for years and years  
12 made the distinction between basic and enhanced services.  
13 The MFJ had a similar distinction between common carrier  
14 communication services and information services. One would  
15 think that if this was going to be a major change in -- in  
16 the regime, that Congress would have expressly so stated and  
17 not done so via definitions that can be interpreted one way  
18 or another. Can you point to some specific affirmative  
19 language apart from what they did not adopt?

20 MR. COMSTOCK: I think the short answer is you  
21 have to take it in totality. I mean, the reality is, well,  
22 yes, many people are immersed in the nuts and bolts of the  
23 MFJ decision and the basic and enhanced distinction. You'll

1 notice that Congress did not adopt any of those things  
2 directly.

3 I know there were many attorneys that tried to say  
4 that we did this, we did that. The reality was Congress  
5 tried to craft a scheme that made sense to it. And frankly,  
6 as you well know from a brief that was filed in support of  
7 the FCC's position before the 8th Circuit, there were things  
8 Congress did in that Act and thought it may have  
9 accomplished that didn't -- didn't totally work. And so I  
10 can't say I can point to anything definitive that says in  
11 black and white, we intended not to adopt the basic enhanced  
12 distinction. I think that would be a misnomer anyway.

13 What we clearly intended was you have the  
14 flexibility to go forward. And what we did not adopt which  
15 was in earlier drafts was specific statutory language that  
16 said these two may not overlap. We gave you that  
17 flexibility. And I think when you look at the other  
18 provisions of the Act, for example, the statement, "There  
19 should be an evolving definition of universal service or  
20 evolving level of telecommunications services;" how do you  
21 get there if you continue down this path of very narrowly  
22 crafted transmission services when everything is  
23 increasingly being packaged together.

1           As you're finding out yourself here in this panel,  
2 we can barely figure out where to draw the line. So that's  
3 -- that's why I'm saying the definitions don't force you to  
4 draw that line. There's nothing in the statute that says  
5 that must be the case. And to give effect to all of these  
6 other provisions and the many other objectives, regulatory  
7 parity and local competition, universal service, you're  
8 tying yourself in a knot by continuing that pre-1996  
9 definition which put together at a time when you had no  
10 forbearance authority. That's the reason the forbearance  
11 authority is there, to take care of that problem.

12           COMMISSIONER NESS: You talked a little bit  
13 earlier about the contamination theory in Computer III.  
14 Where would you draw the line? How would you distinguish  
15 the transmission from the other services such that it is no  
16 longer an enhanced service, rather to distinguishable,  
17 measurable services?

18           MR. COMSTOCK: Well, I would suggest that there  
19 are some services that are both an information service and a  
20 telecommunications service. And what you need to do is look  
21 at what is the user getting out of that service. When I  
22 sign up for an e-mail, the fact that it may be stored on  
23 some server is really irrelevant. The fact that there is a

1 header ad is completely irrelevant. I mean, if I get a fax  
2 today, it's -- it's printed out oftentimes with all kinds of  
3 information that wasn't on the original page.

4 So that doesn't change it.

5 When it comes into my office today, it goes into a  
6 server. I get the choice of reading it online or  
7 downloading it. Again, that shouldn't change it because the  
8 transmission from the user is the same. You have an option  
9 -- you can either draw the line or make them overlap and say  
10 that some services that are both. If you draw the line, I  
11 would suggest that you move it from the basic transmission  
12 and focus on what is it that the user is primarily  
13 interested in. IP telephony -- I'm interested in talking to  
14 somebody. When I send an e-mail, I'm interested in sending  
15 a specific message. I don't want it changed. I mean, if it  
16 ends up wrapped someone place else, that's really a problem  
17 in the transmission. So that's what I would suggest you  
18 look at.

19 COMMISSIONER NESS: I don't know whether you want  
20 to hear this but another thing that's going to happen is the  
21 payment arrangements from the consumer side are going to  
22 change dramatically. You're already seeing people offering  
23 no just free e-mail but free internet access in exchange for

1     subjecting the consumer to advertisements. I think you're  
2     going to see sender pays e-mail where the ISP is in the  
3     collection business and hands out commissions and so forth.  
4     And I don't know what that means but it certainly makes this  
5     whole thing even more complicated and much harder to decide  
6     what it is you're going to levy any fees or access charges  
7     against.

8             CHAIRMAN KENNARD: Does that lead you conclude --  
9     where I think you're going is that you can't look at this  
10    problem from a sort of service offering-by-service offering  
11    approach. You would have to draw a -- a rather sweeping  
12    line and then look to see whether various services should be  
13    required to pay or not as opposed to doing it sort of  
14    technology-by-technology, service-by-service.

15            MS. DYSON: Yes. I guess I'm saying I think it is  
16    so complicated that you don't want to mess with it for two  
17    reasons: 1) you don't want to mess with it; 2) if you do,  
18    they will immediately figure out clever ways to get around  
19    it. And so, again, if you lead it to the providers of  
20    capacity to figure out what it is that they're selling to  
21    other people and to assess charges among themselves, this  
22    includes access fees, without -- and I know it's hard to  
23    withdraw from a monopoly market and there are local

1 monopolies and so forth.

2 But in the end, what you really want is to let the  
3 various players decide for themselves and allocate the costs  
4 maybe even to advertisers.

5 MR. DIX: May I comment on that, Ester? For the  
6 market reality of not doing anything, to Commissioner  
7 Powell's point of if there is not interpretation, is that we  
8 carriers under whom these obligations currently exist be  
9 forced into making some perhaps unwise business decisions  
10 around trying to avoid for competitive reasons these very  
11 requirements.

12 And what I mean by that is it would be very easy  
13 for us, very expensive, but we could begin to deploy IP  
14 services, Internet-type services inside a circuit-switch  
15 environment. And certainly if you look at some of our  
16 larger competitors in our business in MCI, they run the  
17 former NSF net, the backbone of 40 percent of the Internet,  
18 and they are also a common carrier.

19 And the question I have to you is if you don't  
20 change the definition of a telecommunications carrier, then  
21 I assure you that MCI will consider a strategy wherein they  
22 will begin to move their circuit services in an accelerated  
23 fashion to that Internet service to avoid paying these

1 access charges in this common carrier status.

2 To that point, I have another piece of anecdotal  
3 evidence. Today's Washington Post, a story by Stephanie  
4 Mata (phonetic) says, "Bell's advanced data networks has  
5 entry into the long distance business." And what it says,  
6 if I could just briefly read, "Some Bell's are planning  
7 sophisticated data networks based on Internet protocol, IP  
8 technology that would haul computer data at high speeds over  
9 long distances."

10 Now, if I can read ahead a little bit, "The Bells  
11 insist" -- and they're seeking, as you know, with the FCC to  
12 be able to carry this on an interstate basis. And they're  
13 contending that it is a data service. "The Bells insist  
14 that they aren't trying to surreptitiously get into the  
15 voice long distance business. 'It is conceivable that there  
16 will be incidental voice usage', concedes Edward Young, Bell  
17 Atlantic's associate general counsel."

18 I'm not here to impugn his reputation, but nobody  
19 in this industry believes that he intends to carry just  
20 data. What he was trying to do is what the rest of us are  
21 going to be forced to do which is try to skirt this policy  
22 issue by the deployment of this technology and avoid the  
23 regulations. So I put it to you, if -- if an MCI is both an

1 Internet service provider and a common carrier, what traffic  
2 is subject to this and what traffic isn't? If there's no  
3 re-definition of telecommunications, then I assure you that  
4 all of us will look to avoid these access charges and other  
5 things by shifting our business to IP, i.e., non-regulated  
6 types of technologies.

7 CHAIRMAN KENNARD: Ms. Dyson, would you like to  
8 respond?

9 MS. DYSON: Yes, just very briefly. And the irony  
10 of it is of course that this is probably a good  
11 technological and business decision because according to Tom  
12 Evslin, you're going to get approximately 25 percent more  
13 efficient use of whatever capacity you have. And so this is  
14 something devotedly to be wished. The only challenge is the  
15 unequal application of the access charges.

16 MR. DIX: That is correct. Thank you. That is  
17 correct.

18 COMMISSIONER POWELL: Why -- why are we -- isn't  
19 an error being made assuming that universal service  
20 automatically must be synonymous with access charges? I  
21 mean, one of the potential advantages is things moving to a  
22 more efficient, more cost efficient network is that price  
23 goes down. And if one of the notions of universal service

1 is affordability, there is at least theoretically the  
2 possibility by moving traffic to more efficient networks,  
3 you will indeed lower price. And people who we're worried  
4 about making sure are subsidized are actually being  
5 subsidized by the market and technology rather than by the  
6 United States Government.

7 MR. DIX: But, Commissioner, the definition of a  
8 telecommunications provider goes back to this basic carrier  
9 definition. And we're contending that there is no  
10 difference in -- in this specific phrase, that -- that  
11 transmission between or among points specified by the user  
12 of the information he's choosing without the change in the  
13 form or content of the information as sent and received --  
14 which is the definition for a telecommunications carrier --  
15 is no different from an information service provider than it  
16 is for a common carrier. We are doing exactly the same  
17 thing; delivering exactly the same piece of information in a  
18 different medium.

19 Therefore, there seems to be a link, at least in  
20 my mind, between the universal service fund and access  
21 charges because they're both predicated on the same  
22 definition.

23 COMMISSIONER POWELL: You're a lawyer when you

1 want to be.

2 (Laughter.)

3 CHAIRMAN KENNARD: Mr. Comstock.

4 MR. COMSTOCK: Yes, if I could just respond  
5 briefly on the issue of access charges. I don't disagree  
6 that you need to find a way to do things without access  
7 charges. And as I said before, I'm certainly not advocating  
8 that you take the current regime and apply it to the ISPs.  
9 We're collecting enough money today. The problem is as  
10 traffic shifts, that then increased the costs that have to  
11 be paid by the voice users which just increases the cycle  
12 and makes it more rapid.

13 The real issue is the Commission in the states  
14 have been setting access charges at least since 1983  
15 supposedly because they paid for the use of the network and  
16 because it goes to support universal service. As is  
17 illustrated in the Stevens letter, there is a problem. Even  
18 businesses in some cases are not paying the full cost of the  
19 line as -- as determined by the regulators. Now, I'm not  
20 saying that's correct. But I mean, the Commission has to  
21 step forward at some point and say either we made the right  
22 decisions in the past or we didn't.

23 But assuming that the rates the Commission and the

1 state commissions set are accurate or close to, then you  
2 have this 25 billion dollars in payments from long distance  
3 players to the local players supposedly to support the cost  
4 of the most expensive piece. And -- and you're seeing  
5 evidence of that. That's part of the reason we're not  
6 getting local competition. If you want the more efficient  
7 packets which is going to the home, then you better pay the  
8 local exchange carrier for packet switching. If you tell  
9 them they're only getting universal service for circuit  
10 switching, then they're not going to install packet  
11 switches. So you don't get the better band width to the  
12 home.

13 But, I mean, somewhere in there, there's this  
14 mushy pot of 25 billion dollars. And you can't just say by  
15 exempting out an ever-increasing class, we're somehow going  
16 to get rid of it. You have to decide and delve in what it  
17 is. And all I'm saying is that when you do that, you should  
18 throw everybody into the pot. And then that gives the ISP  
19 the exact same incentive as the IXC to reach the customer  
20 directly, through a more efficient network. There aren't  
21 any ISPs today building networks to people's homes. They're  
22 not interested, you know.

23 CHAIRMAN KENNARD: Ms. Lesser.

1 MS. LESSER: I am afraid that what's happening  
2 here is that Internet telephony is really becoming a  
3 bogeyman. And what I'm hearing, with all due respect to Mr.  
4 Evslin and Mr. Pulver, little more than a -- really at this  
5 point a theoretical service. I mean, we saw some  
6 demonstrations earlier today. There certainly is  
7 development in the Internet telephony area. But we have no  
8 market data. We have no idea how consumers are going to  
9 respond.

10 And I think when we talk about the ISP question,  
11 we need to look at the other services that ISPs are  
12 providing and for AOL, really the only services. We are not  
13 providing an Internet telephony service right now and yet  
14 you're talking about, you know, whether or not we're  
15 providing a comparable voice service. We don't have a voice  
16 service. And so what I think we need to emphasize is our  
17 services operate what is essentially on top of the  
18 telecommunications infrastructure.

19 And frankly, my business people would be shocked  
20 to hear that we have telecommunications revenues because  
21 they see it as a huge cost center for America Online. I am  
22 paying for telecommunications service because I certainly  
23 need those services and they certainly -- the transmission

1 element is critical. But I basically take those services as  
2 a retail customer and I then bundle those services with the  
3 services I'm providing and pass them on to consumer.

4           So if I were essentially -- just in looking at  
5 universal service, I realize that access charges is a  
6 different question and I can address that, as well. But I  
7 would essentially be paying twice because right now, I'm  
8 spending hundreds of millions of dollars a year for  
9 telecommunication services on which -- through which I am --  
10 I am making a universal service contribution. And if I were  
11 required on top of that to look at my information services  
12 revenues and make another contribution, then I would indeed  
13 be paying twice.

14           So I think it's important to not let Internet  
15 telephony -- which, again, there certainly is going to be a  
16 market for and I think the Commission has to pay close  
17 attention to the development of that marketplace. I don't --  
18 - my personal opinion is that I don't think you'll opt --  
19 you should or will opt to regulate since what we've seen is  
20 a lot of innovation in a market-driven -- in a market-driven  
21 environment. But I do think that we need to make sure that  
22 it isn't the bogeyman for complete reclassification of ISPs  
23 at this particular time.

1                   CHAIRMAN KENNARD: Mr. Comstock.

2                   MR. COMSTOCK: If I could just address the issue  
3 of double payment briefly. The point is you pay for lines  
4 from the central office to the ISP center just like an IXC  
5 does. Yet an IXC does pay access charges. And the end user  
6 who is buying the long distance service also pays to the IXC  
7 charges that they don't pay if they use the Internet.

8                   For example, if I get online and talk to my  
9 brother in Cleveland for two hours, whether it's by voice or  
10 video or in a chatline e-mail, I pay 70 cents a day to the  
11 ISP. That's basically what it costs me, plus I pay from my  
12 local phone service. If I picked up the phone and made the  
13 same conversation, I would pay what I paid for my local  
14 phone service and I would pay -- at 12 cents a minute, I  
15 would pay \$14.40.

16                   Now, maybe -- maybe there's something wrong with  
17 that and it needs to be readjusted. But the point is why  
18 should I be able to communicate, have the same conversation  
19 one way and I pay 70 cents; the other way I pay, well, 20  
20 times as much. So I mean, you're not double paying. You  
21 are contributing to universal service to the extent that the  
22 business lines are above cost and some of that money gets  
23 transferred. But you're not paying as much as a similarly

1 situated IXC is paying to support the local network.

2 I'm not saying what the IXC is paying is right. I'm  
3 just saying you're not paying as much.

4 And the second point I would make is if AOL is not  
5 providing voice telephony, it may be only your e-mail  
6 services that we need to worry about or your Internet fax  
7 services.

8 (Laughter.)

9 But the point is you are providing some  
10 telecommunications service. There are lots of other  
11 services you're providing that I wouldn't include.

12 COMMISSIONER NESS: If I could follow up on that.  
13 Isn't the carriage of an e-mail message essentially the  
14 transmission between or among points specified by the user  
15 of information of the user's choosing?

16 MS. LESSER: Well, in some ways -- certainly if  
17 you just look at the text of the message -- I mean, if I  
18 send a message to my mother that says, hi, mom, and she  
19 receives it, she receives that text. But what she also  
20 receives are additional capabilities which is the service  
21 that we're providing whether they are storage capabilities,  
22 whether they are reply capabilities, the entire browser that  
23 goes with the e-mail.

1           So that -- while that -- an element of the message  
2 that is received on the other end certainly looks to the  
3 user from a textual standpoint as the same message from a  
4 substantive standpoint. What is wrapped around it, the  
5 service that we are providing which is -- you know, which is  
6 reply, which is forward, which is storage capabilities is  
7 much more than -- I mean, I think it's really wrong to just  
8 look at the text of that message.

9           There's much more on the screen. If you look down  
10 a little bit more, you'll see -- at least on AOL, if you  
11 look down, you'll see the footers. And if you look on most  
12 e-mail systems, you'll see the headers. But there is a lot  
13 more information that goes along with that to enable that  
14 message to travel and to get to the recipient.

15           CHAIRMAN KENNARD: But what difference does that  
16 make? I mean, if -- if the message being communicated is --  
17 is -- to your mother is basically the e-mail transmission,  
18 what difference does it make if there are other capabilities  
19 that may or may not be used? If -- if what we're talking  
20 about is whether we have a regulatory regime that in effect  
21 creates distortions, the fact that you have other  
22 capabilities seems, as least preliminarily, sort of  
23 irrelevant.

1 MS. LESSER: Well, I know, but the other  
2 capabilities are not -- perhaps I misspoke. They're not  
3 severable. I mean, we're not -- I'm not talking about one  
4 capability versus another capability. I'm talking about the  
5 e-mail service itself has to be looked at holistically. And  
6 that entire service is not just the transmission of the  
7 text. It is all the other capabilities that I spoke about.  
8 So I don't think it is right to say aren't we talking about  
9 several different services.

10 COMMISSIONER NESS: Is that more a function of  
11 reformatting rather than changing the content?

12 MS. LESSER: I suppose it depends on your version  
13 of content. I mean, when we look at the historical  
14 definition of enhanced services and the definition of  
15 information services in the Act, all of the things that we  
16 "do to that test" or wrap around it in order to make it go  
17 to the recipient are included in those information services.  
18 We're not simply providing just the transmission -- I mean,  
19 it's -- if you look at it very literally, obviously you say  
20 sent and received and perhaps focus on what the user is  
21 seeing. But I think if you look at the entire service, the  
22 answer is no.

23 CHAIRMAN KENNARD: Mr. Symons.

1           MR. SYMONS: Mr. Chairman, thanks. What I would  
2 like to do is maybe go back and try to answer your question  
3 from 45 minutes ago: Why shouldn't the Commission extend  
4 the existing regulatory structure to services that look to  
5 the end user to be the same? And I think there's a short  
6 answer that might sound flippant, but maybe isn't upon  
7 further reflection. And I think the answer is because you  
8 don't have to.

9           And, in fact, if you attempted to take the  
10 regulatory structure that was designed over 64 plus years to  
11 address monopoly concerns that arose when the telephone  
12 network was constructed and even, I think more  
13 appropriately, monopoly concerns when the railroads were  
14 built because that's where Title II comes from, there  
15 doesn't seem to be a real need at this juncture to take that  
16 regulatory structure and apply it to a set of nascent  
17 services.

18           And in this regard, I think both the point that  
19 Mr. Evslyn made and that Jill Lesser I think are worth --  
20 worth repeating. That I think there's a -- there may be a  
21 distinction between IP telephony which turns out to be the  
22 poster technology of what a difficult problem this is for  
23 the Commission, not to take anything away from the

1 difficulty, and other information services that are provided  
2 over the telecommunications network.

3           Let's put aside Internet telephony for a moment.  
4 That's clearly the most difficult issue. It's one that's  
5 going to come back long after April 10th has come and gone.  
6 If you look at the other services, e-mail, voice mail, even  
7 Internet access, I think there's an alternate history of the  
8 1996 Act from the one that's been presented here this  
9 afternoon that suggests that in fact when Congress adopted  
10 the definitions of telecommunications and information  
11 services, it was in fact borrowing heavily and overtly from  
12 the MFJ and from Computer II.

13           The definition of information service, which would  
14 largely be read out of the statute by much of the  
15 conversation here today, means the capability of generating,  
16 acquiring, storing, transforming, processing, retrieving,  
17 utilizing, or making available information via  
18 telecommunications. That definition was drawn largely from  
19 the MFJ. And going to Commissioner Ness' question, there is  
20 an expressed reference in the House report that says we are  
21 taking this definition from the MFJ.

22           If you go back to the MFJ, it turns out e-mail,  
23 voice mail, even Internet access -- it used to be called the

1 gateway service -- all of those things were present and  
2 brought before the Court and the Justice Department. And it  
3 turned out, as between telecommunications and information,  
4 each one of those things was an information service even  
5 though in the MFJ, nearly the same definition  
6 telecommunications also existed.

7           The fact is that those capabilities, e-mail, voice  
8 mail, access to some sort of information gateway, were  
9 deemed capabilities for acquiring, storing and retrieving  
10 and making available information; not telecommunications;  
11 not the provisioning of a pure pipe because each of those  
12 services, whether it's e-mail or voice mail, involved some  
13 sort of enhancement to the pipe if I could use that term  
14 here.

15           My fear is that by trying to address every single  
16 problem, every single very thorny issue that you doubtless,  
17 you and your successors will confront here in advance of  
18 this April 10th report, what you'll end up doing is doing  
19 what no one can do, is taking a snapshot, engaging in a  
20 static analysis of a very dynamic set of questions, and  
21 inevitably, as all of us would under the same set of  
22 difficult circumstances, making the wrong prediction about  
23 how things will roll out after April 10th.

1           There's no need to do that, certainly not for this  
2 report. And it may not even be advisable to try and do it  
3 as a matter of policy right now. There are -- these  
4 questions unfortunately are probably best attacked  
5 incrementally. I suggest -- I would also suggest that --  
6 that there's not that much of a difference between the post-  
7 1996 regulatory structure and the pre-1996 regulatory  
8 structure.

9           Internet telephony is clearly a very difficult  
10 issue. I would suggest that you don't need right now to  
11 deal with that because it is not any more than some press  
12 releases and some -- and some tinkering, LCI's -- LCI's  
13 concerns, which are legitimate -- will be legitimate to the  
14 contrary notwithstanding.

15           If you take it perhaps a little bit at a time  
16 rather than trying to bite it all off and trying to decide  
17 essentially what's undecidable, I think you'll be faithful  
18 to the statute, I think you will address the legitimate  
19 concerns about universal service that will arise, and I  
20 think you'll do it without having to essentially back into  
21 regulation only to have to turn around and de-regulate under  
22 your forbearance authority which would seem to be a very  
23 cumbersome way essentially to leave us all in the same place

1 we are right now.

2 CHAIRMAN KENNARD: Ms. Lesser.

3 MS. LESSER: What I was going to add was I think  
4 that -- I mean, I actually agree with a lot of what Howard  
5 just very articulately said. And I think that I would like  
6 to comment just for a moment on the forbearance issue. It  
7 seems to me that as we -- and as Earl pointed out -- there  
8 are -- there are a lot of inefficiencies that have  
9 historically been included in the access charge system and  
10 the universal service system.

11 And, you know, as we look at whether or not a long  
12 distance call on the telephone should actually cost as much  
13 as it does, it seems somewhat backwards to me to say, okay,  
14 well, we admitted that that is an inefficient service that  
15 needs to be looked at again; but why don't we bring other  
16 people into it and then try to essentially then figure out  
17 what to do.

18 It seems to me the way to do it is to look at the  
19 Internet as an unregulated industry and the innovation that  
20 has essentially incurred because of how unregulated -- well,  
21 how market-driven the Internet has been and basically say  
22 why don't we take from -- why don't we learn lessons from  
23 the Internet rather than simply trying to bring a new -- an

1 entirely new industry under old regulation.

2 I mean, I think one of the most important aspects  
3 of this is certainly the position that the United States  
4 Government has taken overseas. We have made a historic  
5 telecommunications agreement just several months ago  
6 essentially -- or really more than a year ago now -- time  
7 flies -- has essentially said to the world, you know, do not  
8 regulate the Internet and please, essentially, make sure  
9 that telecommunications regulation is stripped away as we go  
10 forward as technologies converge.

11 If we in this country all of a sudden say, well,  
12 actually we're going to change our minds and now call the  
13 Internet a regulated entity but we're going to pick and  
14 choose as to what we at any given time think is important to  
15 regulate, I think what we end up with is big confusion and  
16 certainly a lot of inconsistency from a policy standpoint  
17 around the world.

18 CHAIRMAN KENNARD: Mr. Evslin.

19 MR. EVSLIN: Mr. Chairman, just to add to that,  
20 the rest of the world has taken the United States' advise  
21 and the European Community has decided not to do this type  
22 of regulation until at least the year 2000, recognizing that  
23 the industries are both in their infancy and are no

1 substantive threat to the more regulated industries today.  
2 And I think that's true. And I -- I have to -- there is a  
3 lot of hype about Internet telephony.

4 But the most wild projections of what it can be,  
5 having it be less than a billion dollars next year in an  
6 industry that's worldwide 200 billion dollars and growing by  
7 ten percent a year -- and again, the most optimistic  
8 projections don't have Internet telephony, this poster boy,  
9 with a market share equal to one year's growth in  
10 traditional telephony until seven to ten years from now. So  
11 part of the answer to why shouldn't we regulate this is  
12 there isn't any threat now.

13 On the other hand, access charges certainly do  
14 cause distortion. Access charges cause distortion in  
15 economic decisions even if there were no such thing as IP.  
16 And so there is real damage being done by the current access  
17 charge regime.

18 And so it would seem that regulatory time is much  
19 better spent unencumbering the traditional  
20 telecommunications industry from the uneconomic aspects of  
21 access charges so that their decisions are not distorted, so  
22 that they do have an incentive to deploy the more effective  
23 and more cost efficient IP networks, so that they do have an

1 incentive to replace the circuit-switch last mile with an IP  
2 last mile, not to get around regulation, but because the  
3 economics are simply better absent access charges.

4 So it would seem that the best course for the  
5 Commission would be to concentrate on undoing the  
6 distortions caused by access charges by getting rid of the  
7 access charges, not by applying the distortions to everyone.

8 CHAIRMAN KENNARD: Thank you. Please.

9 COMMISSIONER TRISTANI: This goes back to  
10 something we were -- you were talking about was the e-mail  
11 unenhanced service. And I'm having a lot of difficulty with  
12 all of this because I love the Internet. I have a  
13 Disney.com kid. I just visited schools in San Juan, Puerto  
14 Rico where they have one provider per 450 students and --  
15 and a basic line, so it takes forever. They love it.

16 At the same time, we look at these things and --  
17 and is as fax telecommunications service?

18 MS. LESSER: A fax?

19 COMMISSIONER TRISTANI: A fax.

20 MS. LESSER: Yes.

21 COMMISSIONER TRISTANI: Yes, right. And I know  
22 that a lot of people between Europe and the U.S. are sending  
23 their faxes through e-mail to avoid the high price, the

1 exorbitant price that they pay for a fax. And I know you  
2 say, well, it's different; we have all these other  
3 capabilities. But -- but --

4 MS. LESSER: They're not exactly --

5 COMMISSIONER TRISTANI: -- I'm having trouble with  
6 that.

7 MS. LESSER: They're not exactly sending their  
8 faxes through e-mail. What they're doing perhaps -- I don't  
9 know who you're referring to --

10 COMMISSIONER TRISTANI: Well --

11 MS. LESSER: But what you are doing is attaching  
12 files to e-mail --

13 COMMISSIONER TRISTANI: Yes, well, yes, I know.

14 MS. LESSER: -- which -- which to me the user --

15 COMMISSIONER TRISTANI: Part of -- it's the same  
16 thing.

17 MS. LESSER: Well -- Well, I --

18 COMMISSIONER TRISTANI: And it's much cheaper.

19 MS. LESSER: Well, it's -- it's -- it is the same  
20 thing and it's not the same thing. You either, you know,  
21 get the paper off your fax machine or you download. You  
22 basically look at your e-mail screen and the browser that  
23 the e-mail provides and essentially use that functionality

1 to download.

2           And if you -- again, if you look at the  
3 information services definition which is only two years old,  
4 you see it says generating, acquiring, storing,  
5 transforming, processing, retrieving, utilizing or making  
6 available information via telecommunications. I am  
7 absolutely not disputing that the telecommunications  
8 infrastructure and the services, you know, are critical to  
9 the provision of e-mail. But they are not definitionally  
10 the same. In fact, they are definitionally distinct.

11           COMMISSIONER TRISTANI: But to me the user -- it's  
12 the same thing. Anyway --

13           MS. DYSON: The fact is sending it by e-mail is a  
14 much more efficient use of the capacity because one ties up  
15 a voice line and the other doesn't. And so there is a  
16 reality there that the -- the data service is in fact much  
17 cheaper to provide.

18           MR. DIX: But Esther, if I could jump into your  
19 point, both pieces of information can be transmitted and are  
20 transmitted in that form to the user who sees them in the  
21 same way whether they come from AOL or from us. Is this  
22 true? All right. So if we go back to the definition that  
23 says you're transmitting information without form or content

1 change, which is exactly what's happening, then you are in  
2 effect -- in effect by the definition transmitting  
3 information without form or content in the same way that we  
4 are which is a definition of a telecommunications provider.

5 MS. LESSER: But we just fundamentally disagree as  
6 to whether or not we are changing the form or content of the  
7 message.

8 MR. DIX: Well, here's my point. Private IP  
9 networks are being built by large corporations today. This  
10 is Internet protocol-based networks that run on the same  
11 technologies that the Internet uses. CISCO is the leader in  
12 providing these technologies. It never touches the  
13 Internet, the piece of information, the IP packet. It  
14 resides in what we call Intranets or private IP networks.  
15 You can use e-mail in the same way that you can send it via  
16 AOL via one of these networks, and that is no more or less  
17 enhanced than via -- transmitting it via AOL. What AOL does  
18 is they facilitate the access to the user in the same way  
19 that we facilitate a phone call to a user.

20 AOL is not the Internet nor is ITXC. They are  
21 access providers to the Internet. It is a difference.

22 CHAIRMAN KENNARD: I would like to give  
23 Commissioner Furchtgott-Roth an opportunity.

1                   COMMISSIONER FURCHTGOTT-ROTH: Thank you, Mr.  
2 Chairman. I would like to thank all the witnesses for  
3 coming today. I would particularly like to thank Mr. James  
4 for making the trip all the way from Nebraska; a very --  
5 very inspirational story you told us. And I would also like  
6 to thank Mr. Comstock for providing us with an insight into  
7 conference. And I really appreciate all the comments about  
8 how the House just made the Senate do certain things.

9                   (Laughter.)

10                  I -- I have actually a long list of questions.  
11 And in the interest of time, I think it might be more  
12 efficient for me to try to catch some of the witnesses at a  
13 later date. I don't want to hold up the proceeding longer  
14 than it is. Thank you though.

15                  CHAIRMAN KENNARD: Thank you. Earl, I think  
16 you'll have the last word today. We're out of time.

17                  MR. COMSTOCK: All right. I'll be brief. I think  
18 the point was made with respect to the e-mail. The fact  
19 that there are additional things added, that's why the  
20 definition focuses on the user's information. It's really  
21 not relevant how the service provider packages it. I think  
22 fax is important. It's 40 percent of the traffic and it  
23 does provide 40 percent of the revenues.

1           Lastly, let me take on Howard's point about the  
2 MFJ. Members on the floor of the Senate and the House both  
3 characterize the 1996 Act as a major overhaul of the '34  
4 Act. I -- well, as I said before, I can't point to specific  
5 things that say, yes, we intended to get rid of basic and  
6 enhanced. I can tell you most members didn't get down to  
7 that level. They did intend this to be a major overhaul.  
8 They spent a lot of time on universal service. They spent a  
9 lot of time on local competition.

10           And both of those would be gutted frankly if you  
11 went with what Howard suggested of keeping the old  
12 definitions. You would not have the ability for people to  
13 get on to the local network to provide services that we all  
14 consider telecommunications today. It's a very narrow  
15 definition, the basic and enhanced distinction.

16           And the last thing I would say is keep in mind,  
17 when you did basic and enhanced, you did it under your  
18 regulatory authority. If you apply that to a statutory  
19 definition, the Court is not going to give you the same  
20 deference. Computer I to Computer II to Computer III, you  
21 went back and kept changing what was a basic service and you  
22 kept moving things that had been enhanced into the basic  
23 category.

1 Well, if you do that now, the Court is going to  
2 say, well, what changed with respect to that service. And  
3 the answer is going to be nothing. You changed because the  
4 industry changed. But that doesn't change the definition in  
5 the statute. So I would just advise a lot of caution on  
6 that. And I don't think that Howard is correct that the  
7 Congress clearly considered this issue. What they did what  
8 was an evolving definition of telecommunications service for  
9 universal service and that can't happen if you simply carry  
10 forward the pre-'96 Act regime as if nothing ever happened.

11 CHAIRMAN KENNARD: Thank you, Earl. Unless we  
12 have other questions from the bench, I think we should  
13 adjourn because we are over time. Commissioner Tristani,  
14 did you have something?

15 COMMISSIONER TRISTANI: I would like to make some  
16 closing comments.

17 CHAIRMAN KENNARD: Okay, sure.

18 COMMISSIONER TRISTANI: I want to thank all the  
19 panelists and thank you in particular, Earl, for an inside  
20 history of the Act. And I want to thank Mr. James, too, for  
21 coming from Nebraska. I'm from Albuquerque, New Mexico, so  
22 I'm closer to your part of the world. I also have -- my  
23 dearest older brother is a school teacher in Catholic high

1 school in Albuquerque. And I think I know a little bit  
2 about the needs of Catholic and -- and all schools. And so  
3 I do appreciate your perspective and we do care about that.

4 But we have some very difficult issues here:  
5 policy and Congressional mandate and definitions. And we  
6 all are going to study this very hard. But I don't think --  
7 someone said April 10th will be the end of it. It may be  
8 the beginning. So thank you.

9 CHAIRMAN KENNARD: Commissioner Ness or  
10 Commissioner Powell, closing comments? Well, with that,  
11 then I would like to thank all of our panelists for a  
12 terrific and very lively discussion of some very, very  
13 difficult issues. You've brought a tremendous amount of  
14 expertise here to us today. And I -- I deeply appreciate  
15 your participation. I would also like to thank the people  
16 here at the FCC who made this possible; in particular, Kevin  
17 Werbach and Melissa Waxman, Dr. Bob Pepper, Marcelino Ford-  
18 Levine, and Pam Gallant, not to be confused with Paul  
19 Gallant. Thank you all for coming. Thank you.

20 (Whereupon, at 4:11 p.m. on Thursday, February 19,  
21 1998, the meeting was adjourned.)

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