

**ORIGINAL
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DIRECT TESTIMONY OF

JOSEPH GILLAN

ON BEHALF OF AT&T COMMUNICATIONS

OF THE SOUTHERN STATES, INC.

Docket No. 960833-TP

I. QUALIFICATIONS AND PURPOSE OF TESTIMONY

Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A. My name is Joseph Gillan. My business address is P. O. Box 541038, Orlando, Florida 32854.

Q. WHAT IS YOUR OCCUPATION?

A. I am an economist with a consulting practice specializing in telecommunications. My clients span a range of interests and have included state public utility commissions, consumer advocate organizations, local exchange carriers, competitive access providers and long distance companies.

Q. PLEASE BRIEFLY OUTLINE YOUR EDUCATIONAL BACKGROUND AND RELATED EXPERIENCE.

A. I am a graduate of the University of Wyoming where I received B.A. (1978) and M.A. (1979) degrees in economics. My graduate program concentrated on the economics of public utilities and regulated industries. In 1980 I joined the Illinois Commerce Commission where I had responsibility for policy analysis relating to the emergence of competition in regulated markets, in particular the telecommunications industry. While on the staff of the Commission, I served on the staff subcommittee for the NARUC Communications Committee and was appointed to the Research Advisory Council overseeing NARUC's research arm, the National Regulatory Research Institute.

1 In 1985 I left the Commission to join U.S. Switch, a venture firm organized to
2 develop interexchange access networks in partnership with independent local
3 telephone companies. At the end of 1986, I resigned my position of Vice President-
4 Marketing to begin a consulting practice. I currently serve on the Advisory Council
5 for New Mexico State University's Center for Regulation. A complete listing of my
6 background, publications and prior testimony is included as Exhibit JPG-1.

7 **Q. WHO IS SPONSORING YOUR TESTIMONY IN THIS PROCEEDING?**

8 A. My testimony is being sponsored by AT&T Communications of the Southern States,
9 Inc. ("AT&T"). Although sponsored by AT&T, the perspective that I will
10 emphasize is that of competition in general, and most importantly, the intended
11 beneficiary of competition, consumers. Competition is, after all, a process of
12 consumer-empowerment.

13 **Q. IS YOUR TESTIMONY PROMOTING COMPETITION FOR THE**
14 **BENEFIT OF CONSUMERS OR FOR THE BENEFIT OF AT&T?**

15 A. Primarily it is for the benefit of consumers. Competition now resides at the heart of
16 the nation's telecommunications policy. This is not because it benefits competitors,
17 but because it is the best mechanism to provide consumers with the lowest prices
18 and greatest choices -- and because where competition flourishes, regulation and
19 government intervention are unnecessary.

20 The fact that the parties before this Commission are large companies should not be
21 confused with the nature of their debate. In one corner, you have BellSouth, a
22 monopoly whose incentive is to do as little as possible to open its markets. In the
23 other corner, you have AT&T, an entrant with the desire to offer local services
24 broadly throughout Florida. Certainly, each party is primarily motivated by its own
25 self-interest, but the public-interest embodied in the Telecommunications Act of

1 1996 ("the Act") is providing consumers with choice. In this regard, AT&T's desire
2 to successfully compete with BellSouth and the public interest align.

3 **Q. PLEASE SUMMARIZE THE PRINCIPAL CONCLUSIONS OF YOUR**
4 **TESTIMONY.**

5 A. This proceeding represents a watershed event in the evolution of Florida's
6 telecommunications markets. Unlike earlier proceedings addressing local
7 competition, this arbitration is the first proceeding to *comprehensively* consider each
8 of the tools contemplated by the Act. The full mosaic of entry tools are needed if
9 AT&T (or any other carrier) is to broadly approach the market, offering service to
10 non-specific customers, residential and business alike. Because AT&T needs and is
11 requesting a full range of entry options -- options to which it is entitled under the
12 Act -- the Commission will be establishing not only conditions necessary for
13 AT&T's entry, but more significantly, the conditions of entry for the entire industry.
14 The purpose of my testimony is to emphasize the significance that this
15 Commission's decision in this proceeding will have on the future of competition. In
16 short, this Commission will be deciding whether Florida consumers in fact will have
17 choices, both now and well into the next decade.

18 Specifically, my testimony concludes that:

19 * The fundamental intent of the Act is a transition to an industry structure
20 where lines between carriers, services and markets disappear to the
21 maximum extent possible. The threshold predicate to this change is the
22 emergence of local competition -- not on a limited scale, or for a few
23 fortunate customers -- but on a broad scale to all residential and business
24 subscribers.

25 * The key factor that will determine the price that consumers pay for local

1 telephone services will be the price that competing carriers pay BellSouth
2 for wholesale local exchange services which are then resold to customers, as
3 well as the price carriers pay to BellSouth for unbundled network elements
4 and local interconnection.

5 * Resale of wholesale services and unbundling of network elements will
6 accelerate the deployment of alternative local networks and yield a far more
7 competitive environment at the end of the entry process than can otherwise
8 exist.

9 • Consumers will consider local competition a failure unless operational
10 support systems accommodate consumer movement from one local
11 exchange carrier to another on a level comparable to the process used to
12 move customers among long distance carriers. Implementing automated
13 systems that support broad-scale local competition requires that both
14 entrants (which have the incentive) and incumbents (which do not) design,
15 test, and implement these systems.

16 Finally, two precautionary notes concerning how rapidly the market will change
17 after the Commission reaches its decision in this proceeding. The correct decision
18 here should provide the *foundation* for competition and consumer choice. But local
19 competition will not be instantaneous. Implementing this Commission's decision
20 will take time. It is for this reason that the Commission should order each of the
21 comprehensive elements requested by AT&T so that competition can begin as soon
22 as possible.

23 Second, this proceeding concerns only half of the Act's fundamental equation:
24 opening BellSouth's monopoly in the local exchange market to competition. The
25 second half of the equation, allowing BellSouth to provide long distance services in

1 its territory -- while useful to understand the full impact of the Act -- is a question
2 that is relevant only *after* local markets become competitive. This single-minded
3 focus on opening the local exchange market to competition is appropriate because
4 establishing the right local entry conditions, by itself, is a substantial undertaking
5 that requires the Commission's undivided attention. The proverbial cart and horse
6 each has its role, but at this stage of the process, the issue is designing the cart.

7 **Q. HOW DOES YOUR TESTIMONY RELATE TO THE TESTIMONY OF**
8 **OTHER AT&T WITNESSES?**

9 A. My testimony describes the interrelationship among the requests in AT&T's
10 arbitration petition and how these requests fit within an overall strategy to
11 implement the Act. Other witnesses will provide detailed explanations of AT&T's
12 requests for wholesale services, unbundling of network elements and local
13 interconnection; the appropriate economic pricing principles to apply; as well as the
14 particular dimensions of the operational support systems being requested. My role
15 is to explain how these carrier-to-carrier issues can be expected to yield tangible
16 benefits in the prices and choices experienced by consumers.

17 **Q. HOW IS YOUR TESTIMONY ORGANIZED?**

18 A. In testimony sections which follow, I:

- 19 * describe the competitive environment envisioned by the Act, with
20 particular emphasis on its effect on consumer prices and choices
21 (Section II);
- 22 * explain the particular importance of local services resale to
23 achieving broad customer choice and accelerated entry (Section III);
- 24 • present the fundamental role of unbundled network elements to
25 achieving the competitive structure contemplated by the Act

1 (Section IV);

2 • conclude with a discussion of the importance of operational changes
3 needed to provide consumers with the widest choices with the least
4 disruption (Section V).

5 **II. ACHIEVING THE COMPETITIVE ENVIRONMENT OF THE**
6 **TELECOMMUNICATIONS ACT**

7 ***A. The Competitive Environment***

8 **Q. PLEASE DESCRIBE THE LONG-TERM COMPETITIVE ENVIRONMENT**
9 **ENVISIONED BY THE ACT.**

10 **A.** The long-term competitive environment contemplated by the Act is an industry
11 structure unseen since the divestiture of the Bell System in 1984: the emergence of
12 the full service provider, or, in other words, a single firm offering local and long
13 distance services. Of course, this time around, the goal is *multiple* full service
14 providers, and not the reemergence of the Bell monopoly. Contemporary labels
15 such as interexchange carrier ("IXC"), competitive local exchange carrier ("CLEC")
16 and local exchange carrier ("LEC"), that today distinguish carriers, will disappear in
17 the eyes of consumers.

18 The threshold condition necessary to achieving this competitive environment is a
19 system of arrangements between carriers for the resale of wholesale services, the
20 use of network elements and reciprocal compensation. These basic tools will foster
21 robust competition where consumer benefits will arise relatively quickly while the
22 much slower process of duplicating networks moves forward.

23 Importantly, Congress took the steps necessary to effect the transition to a fully
24 competitive environment by adopting a completely new framework to govern the
25 relationship between incumbent local exchange carriers ("LECs") and other carriers.

1 This *carrier-to-carrier* framework provides entrants quite different entitlements --
2 and imposes on incumbent LECs quite different obligations -- than have existed in
3 the past. This carrier-to-carrier framework enables entrants to use the incumbent's
4 existing network to fashion their own local exchange and exchange access services
5 on an economic basis comparable to BellSouth.

6 **Q. WHAT ARE THE CORE ELEMENTS OF THE CARRIER-TO-CARRIER**
7 **FRAMEWORK OUTLINED BY THE ACT?**

8 **A. The core provisions describing these new carrier-to-carrier relationships are**
9 contained in Sections 251 and 252 of the Act. In simple terms, these Sections
10 impose on incumbent LECs, like BellSouth, the obligation to permit the resale of its
11 retail services at wholesale prices, to unbundle its network and sell these elements to
12 entrants at cost-based rates, and to implement a system of reciprocal compensation
13 for the termination of traffic. It is important to understand that these items when
14 added together form the backbone of the relief AT&T seeks and are not options
15 which BellSouth may, or may not, fulfill at its whimsy. Rather, these are clear
16 obligations which Congress adopted in order to effect a fundamental change in the
17 industry by promoting robust local competition.

18 **Q. WHY WOULD CONGRESS HAVE ADOPTED CARRIER-TO-CARRIER**
19 **ARRANGEMENTS WHICH PROVIDE ENTRANTS THESE RIGHTS?**

20 **A. The Act fundamentally recognized that full retail competition would be seriously**
21 delayed, if not effectively foreclosed, if it first required the building of new
22 competitive exchange networks -- networks which, in some areas, may never be
23 constructed. The Act removed this impediment by making the existing LEC
24 networks available to rivals, so as to provide consumers choices more quickly and to
25 stimulate competition in order to accelerate the building of new competitive local

1 exchange networks.

2 **Q. WHY DON'T CARRIERS SIMPLY CONSTRUCT THEIR OWN LOCAL**
3 **NETWORKS?**

4 A. While some limited local networks are under construction, no carrier can construct
5 ubiquitous local networks capable of supporting broad competition. No one knows
6 this better than BellSouth. The BellSouth exchange network in Florida is massive,
7 connecting nearly 3.3 million residential housing units (Source: BellSouth USF
8 Submission, 1993 data) and essentially every commercial enterprise in its territory.
9 Although BellSouth has sometimes sought to paint these statistics as a disadvantage
10 -- implying that its network is the result of a "governmental obligation" as opposed
11 to its own financial self-interests -- the ubiquity, reach and capacity of this network
12 is enormous.

13 **Q. IS LOOP CAPACITY THE MOST SIGNIFICANT MEASURE OF THE**
14 **DOMINANCE OF BELLSOUTH'S EXCHANGE NETWORK?**

15 A. No. Measuring the network solely in terms of loops (i.e., the last connection to the
16 customer) significantly understates the enormous (in fact, unprecedented)
17 investment that would be necessary for even a single provider -- much less, the
18 multiple providers necessary for a fully competitive environment -- to duplicate
19 BellSouth's network. In addition to the loop plant to each and every premise in its
20 territory, BellSouth's exchange network (as of 1993) encompassed nearly 214 local
21 switches (including remotes) interconnected by a vast web of interoffice facilities.
22 Overall, the BellSouth network represents more than \$10 billion in investment in
23 Florida alone (Source: 1995 ARMIS 43-01, Total Plant in Service). In contrast,
24 AT&T's *worldwide* investment is approximately \$23 billion. (Source: AT&T 1994
25 Form M.) Because of the size and geographic reach of BellSouth's network, local

1 competition would develop at a snail's pace unless this network can be used by other
2 carriers to provide local exchange and exchange access services.

3 **Q. IS THE ACT INTENDED PRIMARILY TO PROVIDE CARRIERS WITH**
4 **NEW BUSINESS OPPORTUNITIES?**

5 A. No. In my opinion, the Act's ultimate purpose is to provide consumers with local
6 choices as they now enjoy in long distance, to eliminate confusion caused by the
7 divestiture of the Bell System (separate providers of intraLATA and interLATA
8 services) while retaining all of the divestiture's competitive benefits, and to set the
9 stage for less regulation of consumer prices. However, the path to lower consumer
10 prices, newer services and increased convenience is through the tools contemplated
11 by these new carrier-to-carrier arrangements. The purpose of the Act will not be
12 fulfilled unless comprehensive carrier-to-carrier arrangements are implemented.

13 ***B. The Competitive Environment And Consumer Prices***

14 **Q. HOW CAN FULL IMPLEMENTATION OF THE ACT BE EXPECTED TO**
15 **BENEFIT CONSUMERS?**

16 A. The Act is fundamentally about choice. Choice for consumers is made possible
17 through the carrier-to-carrier arrangements that will underlie the service offerings of
18 new competitors. This is why correctly arbitrating carrier-to-carrier arrangements is
19 so important -- these agreements ultimately translate to the choices and price levels
20 that consumers experience. Much as the visible contours of the earth's surface (its
21 mountains, valleys and plains) are determined by underlying geographic conditions,
22 so too will consumer choices and prices be decided by the underlying conditions of
23 these carrier-to-carrier arrangements.

24 **Q. HOW WILL PRICES FOR UNBUNDLED NETWORK ELEMENTS AND**
25 **INTERCONNECTION INFLUENCE RETAIL RATES?**

1 A. BellSouth's competitors will use unbundled network elements and interconnection
2 to provide local exchange services to consumers and exchange access services to
3 other carriers. With correctly priced network elements and interconnection (which
4 is to say, prices based on economic cost), these entrants will be able to offer -- and
5 competition will force them to offer -- local exchange services at prices no higher
6 than today's prevailing (i.e., BellSouth's) rates.

7 Importantly, once competition is established through *unbundled network elements*
8 and interconnection, the existence of multiple providers of local exchange services
9 will constrain BellSouth's own pricing behavior. BellSouth will not be able to raise
10 local exchange prices to consumers because these consumers will have a choice of
11 other providers. There is simply no consumer protection stronger than the ability to
12 "take your business elsewhere."

13 This logic, while simple, is so important that it bears repeating. As entrants first
14 approach the market, they are constrained by BellSouth's retail prices. The entrant
15 must provide service at prices no higher than the prices of the incumbent LEC in
16 order to attract and retain customers. *Cost-based network elements and*
17 *interconnection rates* should provide this ability because both the entrant and
18 BellSouth would incur the same cost for the underlying network used to provide
19 service. If BellSouth profitably can provide service at today's rates, then so too
20 should the entrant. Having entered the market, these entrants then become the
21 constraint on BellSouth's prices, limiting BellSouth's ability to raise rates in the
22 future.

23 However, the entire basis for the above conclusion is that unbundled network
24 elements and interconnection arrangements used by the entrant are priced at
25 economic cost. If so, then the entrant and BellSouth each will face the same

1 underlying cost of the facilities needed to provide service. So long as these carrier-
2 prices facilitate profitable initial entry, then competition should provide sustained
3 pressure on price levels in the future.

4 **Q. WHAT WOULD HAPPEN IF THESE PRICES ARE INFLATED ABOVE**
5 **THEIR COSTS?**

6 A. The result would be higher consumer prices and fewer choices. BellSouth would be
7 able to increase the costs of its rivals, limiting their ability to compete with lower
8 prices.

9 **Q. IS THIS WHY THE COMMISSION SHOULD MAKE SURE THAT**
10 **UNBUNDLED NETWORK ELEMENTS AND INTERCONNECTION**
11 **PRICES ARE ESTABLISHED CORRECTLY?**

12 A. Yes. The Act represents a fundamental shift in regulatory focus from *directly*
13 setting retail prices and service dimensions (such as the size of local calling areas) of
14 local exchange carriers, to *indirectly* influencing retail services through the review
15 of the underlying carrier-to-carrier arrangements. If unbundled network elements
16 and interconnection prices are correctly established, then both BellSouth and other
17 providers will be able to compete upon a common foundation, at least with respect
18 to the cost of the underlying network.

19 **Q. WHAT WILL HAPPEN TO THE RESIDENTIAL LOCAL EXCHANGE**
20 **SERVICE THAT BELLSOUTH CLAIMS IS PRICED BELOW COST?**

21 A. The answer to this question has both a short and long run component. For the sake
22 of discussion, *assume* that residential local exchange prices do depend upon the
23 excessive pricing of other services, principally access charges. (This is a claim that
24 I do not necessarily accept, but I will not dispute here).

25 In the short-run, entrants are likely to provide services either through resale or

1 through a heavy, perhaps complete, reliance on network elements obtained from
2 BellSouth. In the resale scenario, BellSouth *retains* all access revenues, even those
3 of the reseller's customers. This arrangement seriously undermines the usefulness of
4 resale to the entrant (discussed in more detail in Section III below), but at least it
5 eliminates any claimed pressure by BellSouth to increase its local rates.

6 In the scenario where the entrant provides local services using unbundled network
7 elements, the entrant fully compensates BellSouth for the economic cost of the
8 facilities and the entrant provides the access service. If BellSouth is correct that
9 local rates are below cost, then both BellSouth and the entrant (who has paid
10 BellSouth for the cost of its facilities) will have a revenue shortfall. But, in this
11 scenario, both BellSouth and the entrant have the respective access revenues from
12 their own customers to offset any revenue shortfall, again eliminating any alleged
13 need for local rates to increase.

14 However, in the long run, the competitive environment envisioned by the Act (if not
15 the plain language of the Act itself) requires that all carrier-to-carrier prices be
16 nondiscriminatory and cost based. This means that the excessive revenues currently
17 embedded in access charges must end. If long term support to local rates is
18 determined to be needed, then such support must be explicitly provided through a
19 universal service fund. Of course, any such funding must be equally available to
20 both the entrant and BellSouth so as to not disrupt the consumer's choice of
21 provider. The Act requires that any universal service mechanism be
22 nondiscriminatory.

23 *C. The Importance of Quickly Reducing Local Entry Barriers*

24 **Q. WHY IS IT IMPORTANT TO REDUCE LOCAL ENTRY BARRIERS**
25 **QUICKLY?**

1 A. As noted earlier, the fundamental balance of the Act is to establish the tools needed
2 for other carriers to offer local services and, once effective competition is firmly
3 established, to permit BellSouth to offer long distance services in its territory.
4 Unlike the very real obstacles to local competition faced by rivals, the barriers
5 confronting BellSouth essentially can be eliminated "at the stroke of a pen." Once
6 legal restrictions are removed, BellSouth will be able to offer long distance services
7 quickly and completely.
8 Barriers to entry in the long distance market are low because there is competition at
9 *both* the retail and wholesale levels. At the wholesale level, a variety of companies
10 compete to provide the central ingredients of long distance services -- transmission,
11 switching, and billing. In effect, the long distance equivalents to unbundled network
12 elements and resale of wholesale services already are in place. A new entrant to the
13 long distance market need not construct its own network or wait for the development
14 of back-office systems to offer its services. The long distance industry already has
15 developed the necessary infrastructure to support a multi-vendor, competitive
16 environment.

17 **Q. WILL BELLSOUTH BENEFIT FROM THIS MULTI-VENDOR**
18 **INFRASTRUCTURE WHEN IT IS PERMITTED TO PROVIDE**
19 **INTERLATA SERVICES IN ITS TERRITORY?**

20 A. Yes. BellSouth is in a position to capitalize on the fruits of the long distance
21 industry's history with competition. Once legal authority is granted, BellSouth could
22 begin offering long distance services without investing in a single switch or strand
23 of optical fiber, obtaining a single right of way, or negotiating a single
24 interconnection agreement with a recalcitrant monopolist. BellSouth simply would
25 need to choose an underlying interexchange network supplier -- indeed, it has

1 already chosen AT&T for just this purpose -- and begin marketing long distance
2 services to its preexisting base of local customers, which today, is the *entire* market
3 in its exchanges.

4 BellSouth's path to becoming a long distance carrier is well-established, tested and
5 routine. It is a feat accomplished by thousands of firms since divestiture. Assisting
6 BellSouth in its task of adding long distance service is a competitive long distance
7 market with four national networks (plus a number of regional networks). Local
8 exchange company operational systems (i.e., presubscription processes) already are
9 sized to process large numbers of consumer requests to change long distance
10 carriers. Moreover, consumers are accustomed to changing long distance providers.
11 Further, there is the issue of excess capacity in BellSouth's extensive interLATA
12 "official services" network that was investigated, but never resolved, in the last Bell
13 rate proceeding (Docket 920260-TL). Merrill Lynch estimates that 50% of the long
14 distance traffic completes in region and could be carried on these facilities if
15 regulators permit BellSouth to convert its "official services" network to commercial
16 purposes.

17 In contrast, the steps to local competition -- even competition which rests
18 substantially or entirely on the use of BellSouth's existing network -- remain more
19 theory than reality. This Commission must ensure that this theory turns into reality.

20 **Q. WHAT WOULD BE THE EFFECT OF BELLSOUTH'S ENTRY INTO THE**
21 **LONG DISTANCE MARKET WITHOUT FIRST ESTABLISHING WIDE-**
22 **SCALE LOCAL COMPETITION?**

23 **A.** If a large portion of the market prefers to obtain its telecommunications services as a
24 package -- and there is general consensus that this is the case -- then the absence of
25 competition for *any* element of the package (i.e., local exchange service) would

1 distort competition for *all* services that are, or, more precisely, will be, sold as a
2 package. Because local exchange service will likely be seen as a compulsory
3 element of the package in the eyes of many (if not most) consumers, local service
4 *must* become competitive or competition for other services, such as long distance,
5 will suffer.

6 The re-creation of the Bell System monopoly is not what Congress intended or
7 consumers deserve. The Bell System divestiture was successful. Barriers to long
8 distance entry were greatly reduced, AT&T lost its monopoly, fiber and digital
9 technology was rapidly deployed, prices fell, and consumers enjoyed choice in
10 virtually every market. The Act essentially extends the pro-competitive policies of
11 the Bell System divestiture to all services. Just as divestiture provided AT&T's
12 competitors with access to the local network on equal terms in order to originate
13 and terminate long distance calls, the Act makes the local exchange network
14 available to competitors on equal terms for every purpose, including to originate and
15 terminate local calls.

16 *D. The Tools of Comprehensive Entry: Resale and Network Elements*

17 **Q. HOW WILL COMPETITION PROCEED DESPITE THE DOMINANCE OF**
18 **BELLSOUTH'S NETWORK?**

19 A. Congress recognized the massive dominance of the incumbent LEC's network and
20 the reality that it will take many years for the local transmission (especially loop)
21 market to become as competitive as the interexchange transmission market.
22 Alternative networks will take time to develop. As a result, the Act provides for a
23 number of entry strategies that rely, to one extent or another, on the immediate use
24 of the incumbent's facilities and services by other providers, so that local
25 competition may develop quickly.

1 Each of these strategies can be found in the central components of AT&T's requests
2 that led to this arbitration. These key components include AT&T's request to:

- 3 * resell wholesale equivalents of BellSouth's retail services,
- 4 • provide local exchange and exchange access services using network
5 elements obtained from BellSouth as basic ingredients to AT&T's
6 services, and
- 7 • terminate traffic under reciprocal compensation arrangements.

8 In later sections of my testimony, I address more extensively the importance of
9 wholesale services (Section III) and network elements (Section IV) to providing
10 exchange services. The point that I would like to emphasize here is the significance
11 of *comprehensively* establishing the basic conditions of local competition as raised
12 by this arbitration.

13 **Q. WHY IS AT&T'S REQUEST SO COMPREHENSIVE?**

14 A. The most important characteristic of the instant arbitration is its breadth. It
15 addresses *each* of the entry options contemplated by the Act: namely, the resale of
16 wholesale services, unbundled network elements, and reciprocal compensation for
17 traffic termination. Previous entrants before the Commission were either niche
18 entrants with little or no market presence or, in the case of a cable television
19 company, a potential entrant that intended to leverage a preexisting network.
20 However, at this point, cable entry remains largely a theoretical event.
21 No carrier has approached the market with the desire to serve a broad cross-section
22 of consumers scattered widely across a large, multi-state geographic region. No
23 carrier, that is, until AT&T. AT&T already serves a geographically scattered
24 customer base. If consumers do prefer to buy local and long distance service as a
25 package, AT&T's continued success in the long distance business depends upon its

1 ability to provide local service. The same is true for other long distance carriers.

2 **Q. HOW DO THE ISSUES OF COMPREHENSIVE ENTRY DIFFER FROM**
3 **THOSE IN PRIOR REQUESTS?**

4 A. There are at least three features of AT&T's request that differ from previous
5 dockets: the (1) intended *scale* of entry, (2) *applicability* to other entrants, and (3)
6 the need for systems to support customer choice with a *convenience* already
7 accepted in the market.

8 First, by scale of entry I mean AT&T's ability to broadly address its existing base of
9 subscribers. No single entry vehicle is best suited for every customer and
10 geographic consideration. Some strategies -- loop resale for instance -- are
11 particularly ill-suited for mass application because they either require physical
12 circuit rearrangements as customers move between providers or presuppose the
13 extensive deployment of alternative networks which do not now exist. Broad entry
14 requires that the full range of entry strategies be available so that a carrier may tailor
15 its offerings to particular conditions.

16 Second, because AT&T's request is so comprehensive, its value extends beyond this
17 single entrant to an entire industry. By encompassing all possible entry strategies,
18 AT&T's request necessarily includes the individual approaches that other carriers
19 will use to address their markets. This observation is particularly important. By
20 deciding the AT&T arbitration, the Commission is establishing the conditions of
21 entry not just for AT&T, but effectively defining the entry conditions for any entrant
22 that will use all (or part) of BellSouth's network to provide local services.

23 Third, just as the development of meaningful long distance competition required
24 new systems to support a multi-vendor environment, meaningful local competition
25 will not succeed without a similar commitment of industry resources to operational

1 support. Consumers will widely perceive local competition -- and the Congressional
2 action upon which it relies -- as a failure if changing local telephone companies is
3 associated with extended delays, high costs, periods of outage, unreliable bills, or
4 disrupted services. Operational systems are absolutely critical to robust competition
5 in the local exchange market.

6 The process with which consumers are familiar -- and which BellSouth will use to
7 enter the long distance market -- allows consumers to change long distance carriers
8 (i.e., their primary interexchange carrier, or "PIC") with a simple telephone call or
9 stroke of the pen. It is an easy, streamlined process. The operating standards of this
10 process, in terms of cost, speed and accuracy, should become the standard for
11 judging systems used to change local service providers as well.

12 *E. Entry and Facilities Deployment*

13 **Q. IF CARRIERS CAN OFFER SERVICES USING BELLSOUTH'S**
14 **NETWORK, WILL THEY ALSO CONSTRUCT COMPETING**
15 **NETWORKS?**

16 **A.** Certainly, but local facilities deployment is a longer-term proposition. It took the
17 Bell operating companies more than 100 years to achieve the present state and the
18 Commission should not expect entrants to deploy comparable networks overnight.
19 No company employing sound business judgment would expend the type of capital
20 it will take to deploy extensive local networks without strong evidence that it can
21 succeed in this market. In this respect, wholesale services and unbundled network
22 elements permit carriers to begin operation and gain needed experience to more
23 efficiently design and plan investment strategies.

24 In addition, entry using BellSouth's network will permit entrants to build the
25 necessary revenue streams to justify the massive investment necessary to construct

1 even relatively modest local networks. It is useful to remember that the gross plant
2 of the RBOCs is more than \$ 200 billion, nearly *10 times* that of AT&T (Source:
3 FCC Statistics of Communications Common Carriers, 1993/94). This buildup of
4 local plant also took place over decades, not overnight.

5 As entrants build their base of customers using wholesale services and unbundled
6 network elements, only then will they be able to make rational investment decisions
7 concerning where to construct networks, invest in switching, add new capabilities,
8 etc. Teleport, in fact, has publicly stated that its business strategy is to win
9 customers first and then build facilities in an efficient way to serve them
10 (Telecommunications Reports, October 16, 1995, page 20). With tangible market
11 experience and a strong customer base, entrants are more easily able to raise capital,
12 and just as importantly, convince their shareholders of the wisdom of their actions,
13 thereby accelerating the deployment of alternative networks.

14 **Q. DOES THIS PROCESS PARALLEL THE DEVELOPMENT OF FACILITIES**
15 **COMPETITION IN THE LONG DISTANCE MARKET?**

16 A. Yes. In the long distance market, early entrants like MCI were able to expand their
17 services and customer base by reselling services off of AT&T's network. This
18 growth financially justified the deployment of their own networks providing internal
19 investment capital and shareholder confidence, and encouraged the entry of others,
20 including (what is now) the third major network provider, Sprint. Later, the
21 continued growth of the resale market resulted in the construction of the fourth
22 national network (WilTel) for the express purpose of providing wholesale carrier -
23 to-carrier services, as opposed to retail services, for use by the "resale" industry.

24 **Q. WILL THE RESALE OF WHOLESALE SERVICES AND ACCESS TO**
25 **NETWORK ELEMENTS SPUR NETWORK CONSTRUCTION?**

1 A. Yes. These tools are essential for local competition to proceed and to provide the
2 appropriate foundation for the network construction that will continue for the
3 indefinite future. The Department of Justice recently reached the identical
4 conclusion, noting in its comments to the FCC (Docket 96-98, page 37) that:

5 Reducing entry barriers into local markets by permitting resale [of
6 wholesale services] and cost-based access [to network elements] is
7 much more likely to lead to the greater development of facilities-
8 based competition than would occur absent such access and resale
9 opportunities.

10 It also should be recognized that the Act provides a strong, potentially threatening,
11 incentive for local network investment, that is, BellSouth becoming a long distance
12 company. This single action will transform BellSouth from the long distance
13 industry's principal *supplier* to its principal *rival*. Long distance companies will not
14 want to be as dependent upon BellSouth as they are today once BellSouth becomes
15 their main competitor. Each will construct, and encourage the construction by
16 others, of other networks in as short a time as possible.

17 Q. **DO YOU EXPECT CARRIERS WILL REPLICATE THE ENTIRE**
18 **BELLSOUTH NETWORK?**

19 A. No. It is likely that some portions of the network may never see a competitive
20 alternative, certainly in the next several years. For instance, it is easy to visualize
21 significant resistance on the part of residential homeowners to multiple network
22 interface boxes being installed on their premises to reflect previous, and future,
23 competitive choices in local services. Other elements of the network may best be
24 provisioned by a sole network vendor (for instance, the loop and local switching in
25 many areas). The point is not simply to encourage new construction -- the goal is to

1 encourage efficient facilities deployment. Wholesale services and correctly priced
2 unbundled network elements, that is to say economically priced unbundled network
3 elements, are key elements of this transition.

4 **III. LOCAL SERVICES RESALE**

5 ***A. The Role of Local Services Resale***

6 **Q. WHAT IS LOCAL SERVICES RESALE?**

7 **A.** Local services resale is the purchase of an incumbent LECs services by a competing
8 local service carrier on a wholesale basis with the intent to resell these services to
9 consumers. Wholesale local services are expressly designed, supported, and *priced*
10 to be resold by another carrier in the retail market. These wholesale local services
11 provide multiple entrants a simple means to begin offering local exchange services
12 and attract customers. BellSouth is required to offer its local services for resale at
13 wholesale rates under Section 251(c)(4) of the Act.

14 **Q. WILL LOCAL SERVICES RESALE PROVIDE IMMEDIATE CONSUMER**
15 **BENEFITS?**

16 **A.** Yes. In the long distance marketplace today, many carriers buy long distance
17 services at wholesale rates for purposes of reselling them to customers, and compete
18 by differentiating their billing systems, customer support and other elements of
19 services. This same strategy can be extended to the local marketplace, with carriers
20 using their marketing and customer skills to resell services obtained from the
21 incumbent LEC.

22 The utility of local services resale as a means to support broad entry has been
23 verified by the Rochester Telephone Company experiment. The Rochester
24 experiment is best known for exposing the importance of operational support
25 systems and the need for a viable discount. AT&T experienced a number of

1 problems attempting to offer local services on a mass market basis, and the
2 experimental 5% discount showed the importance of correct pricing. Ultimately,
3 AT&T had to stop soliciting customers until these problems could be corrected.
4 The deficiencies in the Rochester experiment are well documented and widely
5 understood. But there are other, more subtle lessons, from the Rochester experiment
6 that should not be overlooked. Foremost is that Rochester did prove the usefulness
7 of local resale as a way to enter a market quickly and offer customers a choice of
8 local providers. AT&T was able to offer service throughout the territory, while
9 other entrants remained confined to multi-tenant buildings. Equally telling,
10 however, is that the operational and pricing problems caused AT&T to terminate its
11 marketing, demonstrating that establishing conditions that will sustain competition is
12 just as important as permitting the entry itself.

13 **Q. WILL LOCAL SERVICES RESALE PROVIDE AN EFFECTIVE CHECK**
14 **ON BELL SOUTH'S PRICING?**

15 **A. Only in small ways. Requiring BellSouth to provide wholesale local exchange**
16 **services will limit its ability to discriminate between classes of customers, except**
17 **where the Commission has blessed such discrimination to satisfy a unique public**
18 **need (such as, for instance, preventing lifeline services from being offered outside**
19 **the targeted class).**

20 **Wholesale services, however, will not police the overall level of rates as effectively**
21 **as the pricing of unbundled network elements and interconnection as discussed**
22 **earlier in this testimony. This is because the wholesale price is calculated off the**
23 **retail rate. As retail prices move up, so too do wholesale rate levels, and price**
24 **competition is constrained by the differential. As a result, only limited price**
25 **competition is made possible by reselling wholesale services. Thus, the need to**

1 regulate BellSouth's retail rates remains unchanged.

2 **Q. SHOULD ALL RETAIL SERVICES HAVE A WHOLESALE**
3 **EQUIVALENT?**

4 **A.** Yes. There are a number of strategies that BellSouth could use to limit the
5 usefulness of the wholesale option. Several of the agreements which have been
6 reached recently -- importantly, with carriers that have little or no interest in
7 reselling BellSouth's services -- expose this strategy. In particular, BellSouth
8 proposed to AT&T the following exclusions to its wholesale pricing and resale
9 obligations:

- 10 - Grandfathered and Obsoleted services
- 11 - Promotional rates
- 12 - Contract Service Arrangements
- 13 - Installment Billing
- 14 - Special Billing Arrangements

15 Any *one* of these exclusions could be used by BellSouth to effectively evade its
16 wholesale obligation by selectively targeting customers for special pricing, rolling
17 promotions, and grandfathering, which is a more polite phrase for warehousing,
18 large sections of the market. Together, these exclusions could eliminate the
19 wholesale option as an entry option.

20 ***B. A Simple Model to Estimating Avoided Costs***

21 **Q. WHAT IS THE BASIC APPROACH TO CALCULATING THE**
22 **WHOLESALE PRICE FOR LOCAL SERVICES?**

23 **A.** The basic approach is to remove from the retail price an estimate of the retail-related
24 costs that will be avoided by BellSouth as a wholesaler of services.

25 **Q. WHAT WOULD OCCUR IF THE COMMISSION DOES NOT FULLY**

1 **REMOVE THESE RETAILING COSTS WHEN ESTABLISHING THE**
2 **WHOLESALE RATE?**

3 A. Failing to fully remove retail costs would create a wholesale rate level that is too
4 high. This would distort competition and artificially depress entry. The effect
5 would be to deny consumers the benefits of competition -- lower prices, more
6 choices and the ability to vote their dollar between rivals vying for their attention.
7 It is useful to remember that although the immediate recipient of a wholesale
8 discount is the local reseller, the ultimate beneficiaries are consumers. An
9 artificially low wholesale discount will not lead to lower retail prices. In other
10 words, the smaller the discount, the less competitive pressure to lower prices.

11 **Q. HAVE YOU DEVELOPED A SIMPLIFIED AVOIDED-COST**
12 **METHODOLOGY?**

13 A. Yes. I have developed a very simple model, based on BellSouth's publicly available
14 accounting data, to estimate the percentage of its costs that are retail-related. The
15 purpose of offering this model is to provide an independent check on the discounts
16 suggested by AT&T and BellSouth. While the model is simple, I believe that it
17 reasonably estimates BellSouth's retail-related costs, and is certainly adequate as a
18 validation tool.

19 **Q. PLEASE DESCRIBE YOUR MODEL.**

20 A. The model recognizes that BellSouth's cost accounts can be assigned into three
21 categories:

22 I. Retail-Only Accounts

23 This category consists of accounts that comprise costs that are *clearly* retail-
24 related. These accounts are customer operations marketing and customer
25 operations service, and include expenses such as marketing, sales, customer

1 services. Source: Source 1995 ARMIS 43-01 Customer
2 Operations/Marketing and Customer Operations/Service Expenses.

3 II. Mixed Accounts

4 This category consists of accounts that mix costs that are retail-related with
5 expenses that are not. For example, this category includes the expenses
6 associated with functions such as executive planning, accounts and finance,
7 and external relations. (Source: 1995 ARMIS 43.01 Corporate Operations
8 Expenses). Obviously, some portion of these expenses are directly caused
9 by retailing activity, but the accounting system does not identify the retail-
10 related portion separately.

11 III. Non-Retail Accounts

12 This category consists of all accounts not assigned to categories I or II
13 above.

14 Before proceeding, I acknowledge that even the categories that are identified as
15 exclusively retail (or non-retail) may be slightly contaminated. Attempting to chase
16 every penny, however, is not the point. Just as there may be some non-retail costs in
17 a retail-category, there are surely retail-costs in the category considered non-retail in
18 nature. For example, the simple model treats *all* depreciation expenses as non-retail
19 even though there are obviously retail-related assets being depreciated, such as, for
20 example, the desk and office of the director of marketing. The point is that the
21 imprecision of the simple model works both ways and, as a result, is likely to yield
22 an unbiased estimate.

23 The relatively easy issue is identifying the accounts that are exclusively one thing or
24 the other. The more difficult issue is determining the *portion* of the expenses in the
25 mixed category that should be considered retail-related.

1 **Q. HOW DOES THE SIMPLE MODEL ESTIMATE THE RETAIL-PORZION**
2 **OF THE MIXED CATEGORY?**

3 A. The model uses a statistical technique (linear regression) to estimate the relationship
4 between the level of expenses in the mixed category (corporate expenses) and retail
5 revenues (revenues less access) using 1995 actual data for the nine BellSouth states.
6 This relationship then is used to estimate the level of corporate expenses that would
7 occur even if no retail revenues existed. When these "unavoidable" corporate
8 expenses are subtracted from the actual amount, the remainder is the "avoidable"
9 amount attributable to retail activity.

10 The approach is graphically depicted in Figure 1 (attached as Exhibit JPG-2).
11 Figure 1 shows that the "modeled" relationship (the line in Figure 1) closely predicts
12 the actual data (depicted as squares). In fact, the "correlation" in the model is 90%
13 (a perfect "fit" would be 100%).

14 **Q. WHAT WHOLESALE DISCOUNT IS SUGGESTED BY THE SIMPLE**
15 **MODEL?**

16 A. The simple model provides a estimated wholesale discount of just over 39% (39.4%
17 to be exact). This discount is the sum of the retail-only accounts and the portion
18 (from the above analysis) of the mixed-accounts that are associated with retail
19 activity, divided by retail sales. This simple approach provides independent
20 confirmation that the discount estimated by AT&T Witness Lerma's more
21 sophisticated model (41.7%) is reasonable.

22 **Q. ARE THERE OTHER STANDARDS TO JUDGE THE REASONABLENESS**
23 **OF THE PROPOSED DISCOUNTS?**

24 A. Yes. In the long distance market there is a competitive wholesale market that
25 actively solicits retail carriers with attractive wholesale pricing and operational

1 systems specifically designed for resale. It is useful to consider the discounts that
2 the RBOCs have trumpeted to Wall Street analysts to place the local wholesale
3 discounts discussed in this proceeding into context.

4 For instance, NYNEX recently indicated to Wall Street analysts that it anticipated a
5 80% discount on the long distance services it buys at wholesale. (Source: Dean
6 Witter, November 6, 1995.) Further, Merrill Lynch (Merrill Lynch, August 24,
7 1995) states:

8 ... reseller spreads in long distance are already huge (50%) given the
9 existence of four fiercely competitive long distance networks.

10 Merrill Lynch also predicts that:

11 For calls terminating outside an individual RBOC's franchise area,
12 that RBOC will be able to bargain for volume discounts given that
13 its volumes are likely to exceed that of any other long distance
14 customer in that region -- *discounts that are likely to grow over time*
15 *as RBOC long distance shares and thus negotiating leverage grows.*

16 Emphasis added.

17 The point here is simple: where *competition* decides the wholesale discount, that
18 discount is large and is expected to increase.

19 ***C. The Dilutive Effect of Access Charges on the Wholesale Discount***

20 **Q. DO YOU BELIEVE THAT THE DISCOUNT ESTIMATED BY AT&T WILL**
21 **BE SUFFICIENT TO FOSTER LOCAL ENTRY?**

22 **A.** No. Even though a discount of this level would apparently comply with the
23 avoided-cost standard of the Act, the Commission should be aware that the interplay
24 between local resale and access service (i.e., the charges BellSouth imposes on long
25 distance companies) will significantly reduce the viability of local resale. This is

1 because BellSouth would continue to charge a reseller-entrant carrier access
2 charges, even to originate or terminate traffic to the reseller's own customers. As
3 explained below, this arrangement diminishes the attractiveness of local resale.

4 **Q. PLEASE DESCRIBE THE RELATIONSHIP BETWEEN ACCESS**
5 **CHARGES AND THE WHOLESALE PRICES.**

6 A. With local resale, BellSouth remains the access provider even to the customers that
7 have "left" and become customers of the reseller. Because access charges are priced
8 above cost, BellSouth is able to retain much of the profits from a customer, even
9 after it has lost its retail business. In effect, this means that the reseller markets the
10 relatively less profitable service (local service), while BellSouth retains the cream
11 (access service). This situation is somewhat analogous to agreeing with Gillette to
12 market its razor handles, while Gillette retains a monopoly on the blades. Sound
13 competition cannot proceed on this basis.

14 **Q. WHAT IS THE EFFECT OF BELL SOUTH'S RETAINING AN ACCESS**
15 **MONOPOLY TO THE RESELLER'S CUSTOMERS?**

16 A. One way of measuring the impact of this arrangement is to calculate an "effective"
17 wholesale discount that not only considers what the interexchange carrier/local
18 reseller pays for the wholesale local exchange service, but also includes the access
19 charges that the interexchange-carrier/local-reseller continues to pay BellSouth.
20 This "effective" discount can then be compared to the nominal discount; i.e., the
21 discount that considers only the price paid for the wholesale local exchange service.
22 When access charges are included in the equation, the effective discount is reduced
23 substantially. For instance, if the nominal discount is 50%, BellSouth does not
24 receive 50% less revenue for each customer that moves to a reseller because it
25 continues to receive access revenues. For the *average* customer, if the nominal

1 discount is 50% the effective discount is only 24%. This comparison understates the
2 effect of access, however, since it is calculated for the average customer. The
3 dilutive effect increases as the average toll usage of the reseller increases because
4 higher toll users cause higher access charges to be paid by the long distance carrier
5 to the incumbent LEC. Consequently, even when nominal wholesale discount levels
6 appear large, the realized differential remains relatively small once access charges
7 are taken into consideration.

8 The magnitude of this problem should not be underestimated. For the purpose of
9 comparison, consider the combined effect of a 40% wholesale discount (as
10 suggested by AT&T) and current access charges. On average, the reseller would
11 gain approximately \$9.00 for each subscriber line it attracted, while BellSouth
12 would retain approximately \$5.00 per month in access revenues, even from the
13 customers that it lost.

14 No matter how diligently the Commission removes retail-related costs from
15 BellSouth's wholesale prices, the above-cost pricing of access will distort a reseller's
16 ability to compete with BellSouth. BellSouth recovers its costs in the price of *both*
17 local/retail service and access service, while its competitors must recover all their
18 costs solely through the wholesale discount. As the Department of Justice noted
19 (CC Docket No. 96-98, page 39):

20 The economics of a competitive [local] marketplace would not
21 support entry solely on the revenues derived from local exchange
22 service.

23 Similarly, local competition based on the resale of wholesale services will not
24 succeed so long as the access charges which the local exchange carrier continues to
25 receive from the reseller are a principal source of local profit. Real competition

1 requires that both the entrant and incumbent face the same cost for the facilities used
2 to provide service and have the same opportunity to recover those costs.

3 **Q. HOW CAN THE COMMISSION CORRECT THE DISTORTION CAUSED**
4 **BY THE ABOVE-COST PRICING OF CARRIER ACCESS?**

5 A. The Commission has two choices. First, the Commission can correctly price access
6 charges so that the source of the distortion is eliminated. As I noted earlier, the
7 competitive environment that the Act intends to ultimately achieve cannot occur
8 unless all carrier-to-carrier arrangements are cost-based and non-discriminatory,
9 including access service. Consequently, addressing access pricing head-on would,
10 in my view, be the preferred approach. In the absence of access reform, however,
11 an alternative approach would be to increase the wholesale discount to recognize
12 that access revenues are retained by the incumbent. In no event should the discount
13 fall below the level justified by the avoided cost.

14 **IV. UNBUNDLED NETWORK ELEMENTS**

15 ***A. The Nature of Unbundling***

16 **Q. PLEASE DEFINE "UNBUNDLING."**

17 A. Unbundling refers to the offering of discrete elements of the incumbent's network as
18 *generic functionalities, not as finished services*. These network elements are
19 "unbundled," both from each other and from the retail services of the incumbent
20 LEC.

21 A useful metaphor for unbundling is that of the "Chinese Restaurant." Chinese
22 restaurants typically have extensive menus, detailing dozens of selections. Yet, in
23 the kitchen, only a few basic ingredients are used to create all these choices.

24 Similarly, telecommunications services are typically constructed from a limited
25 number of key ingredients (switching and transmission are the most basic), but the

1 variety of services (from the consumer's perspective) can be quite extensive.
2 Unbundling represents the availability of the incumbent's network elements as
3 ingredients to other providers so that they may combine these ingredients
4 (sometimes adding their own, sometimes not) to provide their own finished services.

5 **Q. IS UNBUNDLING THE SAME AS RESALE?**

6 A. No. Resale involves the purchase of *finished services* by the reseller from the
7 incumbent LEC (albeit at wholesale rates) which are then resold by the reseller.

8 Unbundling is the purchase of underlying *network elements* -- which may be
9 facilities, functions or capabilities -- that can be combined to offer services, either
10 equal to, or different from, the services of the incumbent LEC.

11 **Q. WHAT ARE THE POTENTIAL BENEFITS FROM UNBUNDLING?**

12 A. There are three primary benefits. First, opening the incumbent's network to other
13 carriers as a menu of generic ingredients will make robust competition possible
14 despite the dominance, if not complete monopoly, of the incumbent LEC's network.
15 New entrants could fashion service packages not now available, providing
16 consumers additional choices.

17 Second, unbundling allows carriers to sequentially replace individual components of
18 BellSouth's network as competitive networks slowly develop. The enormity of
19 BellSouth's network necessarily implies that the process of facilities deployment
20 will take time, and will occur unevenly throughout its region. However, through
21 unbundling, carriers will have an opportunity to develop markets, establish services,
22 and attract consumers on a timely basis in the *entire* market, with the process of
23 facilities-deployment following wherever economic.

24 Third, with unbundling there will be substantially more choices at the end of the
25 process than would result if each individual entrant had to construct network

1 facilities in order to offer services. Unbundling prevents local network deployment
2 from becoming a prerequisite to offering service, both for today's entrants and new
3 providers that may form in the future. By creating an open entry environment,
4 investment capital can be directed to developing new services and applications,
5 rather than used exclusively to replicate transmission and switching facilities. By
6 reducing, and then keeping, barriers to entry low, the most diverse competitive
7 environment will develop.

8 Thus, unbundling has the potential for *immediate, transitional* and *long lasting*
9 benefits for the market and Florida consumers. What matters most at the end of the
10 process is that multiple carriers have the opportunity to broadly approach the Florida
11 marketplace, designing services which they believe best satisfy the needs of their
12 customers, on an economic basis similar to that of the incumbent LEC, and fully
13 supported by operational systems which will easily accommodate choices by
14 consumers.

15 A full description of the most fundamental elements that should be unbundled
16 immediately is identified in the testimony of AT&T Witness James Tamplin.

17 ***B. Network Element Pricing***

18 **Q. HOW SHOULD NETWORK ELEMENT PRICES BE ESTABLISHED?**

19 **A.** Network element prices set at direct economic costs will yield the greatest choice
20 and benefits to Florida consumers. To maximize competition -- that is, to promote
21 an environment that will present Florida consumers with the greatest diversity of
22 pricing plans, calling options, and service features -- it is important that the
23 underlying exchange network be available to *all* retail providers of local exchange
24 services on the same terms, conditions and prices.

25 There are only two ways to assure that all providers have access to the exchange

1 network on equivalent terms. The first is to prohibit the network owner from
2 offering competitive services at all. This was the basic approach that underlaid
3 divestiture; for obvious reasons I am not recommending that action here.
4 In the absence of such structural protection, the only viable mechanism is to
5 establish prices of the underlying network components at their economic resource
6 cost. The key is to make the network available to all providers on equivalent terms.
7 For the incumbent LEC, this is the element's economic cost, i.e., its total service
8 long run incremental cost ("TSLRIC"). So that all providers face the *same* effective
9 cost for the use of a network component, the *price* charged other carriers must be
10 equal to the economic *cost* of the element in question. Dr. Kaserman's testimony
11 provides additional details concerning the appropriateness of TSLRIC pricing for
12 network elements.

13 **Q. DOES PRICING NETWORK ELEMENTS AT TSLRIC IMPLY THAT**
14 **BELLSOUTH WOULD NOT BE ALLOWED TO EARN A PROFIT OR**
15 **COVER ALL OF ITS COSTS?**

16 A. No. First, economic pricing includes a return on investment sufficient to attract and
17 retain capital. Although commonly referred to as "profit," the "cost of capital" is a
18 legitimate economic cost and is included in TSLRIC.
19 Second, the economic cost of network elements would include costs associated with
20 planning, engineering and operating BellSouth's network, including costs which are
21 shared by more than one network element (such as the salary of the Operations
22 Director). In the context of retail services, these costs would be viewed as
23 "common," and would not be included in the economic cost of any particular
24 service. Because of this historical context, the Commission may mistakenly assume
25 that the economic costing of network elements would leave a number of "costs"

1 unrecovered.

2 Importantly, however, perceptions concerning common costs derived in an
3 environment of *retail* costing are not applicable to the costing of *network elements*.
4 For example, consider the salary of a switch technician. In a typical *retail* cost
5 analysis, this cost would be considered common to each of the BellSouth's retail
6 services that rely (to one extent or another) on the use of local switching. Yet, when
7 calculating the cost of the local switching *element*, the technician's salary is a *direct*
8 cost and is included in TSLRIC.

9 Finally, there is a category of common costs -- the costs associated with product
10 development, marketing, and advertising that support BellSouth's retail operations,
11 as well as financial and managerial costs, that would be incurred whether BellSouth
12 owned and managed its network or not. These have no relevance to the costing of
13 network elements because these costs are not incurred to provide network functions.
14 However, this does not mean that these costs will go unrecovered. It only means
15 that BellSouth must be as efficient as its rivals, who must also recover these costs in
16 the prices of their services.

17 ***C. Access and Local Call Termination***

18 **Q. ARE ACCESS AND CALL TERMINATION IDENTICAL?**

19 **A.** Yes. The functionality to terminate a call is the same whether the call is classified
20 as a "local" call or a "long distance" call. A pricing issue arises, however, because
21 the charges to long distance carriers to terminate toll traffic (i.e., access) are far
22 above cost.

23 **Q. WHY ARE CALL TERMINATION PRICES SO IMPORTANT?**

24 **A.** The prerequisite to any form of telecommunications competition is the ability to
25 complete calls to other subscribers, virtually all of whom (within BellSouth's

1 exchanges) are served by BellSouth's network. In this regard, the introduction of
2 local competition is not unique. Whether a call is labeled local, or long distance, it
3 still must be terminated to the customer.

4 **Q. WHY IS IT IMPORTANT THAT RATES FOR TRAFFIC TERMINATION**
5 **BE THE SAME FOR "LOCAL" AND "LONG DISTANCE" TRAFFIC?**

6 A. One of the potential benefits of full service competition is competitively determined
7 "local" calling areas. In a competitive market, the "local" calling area should
8 become an important dimension of product differentiation, with carriers offering a
9 variety of price and boundary packages to consumers.

10 For BellSouth to charge a different price for terminating "long distance" calls and
11 "local" calls, BellSouth would need to require that all competitors adopt the same
12 definition of local calling *and* BellSouth would need to implement auditing systems
13 to correctly assess its charges. Such systems are not only unnecessary, but they
14 would be used solely to accomplish an unreasonable result -- the continued
15 discrimination between local and long distance calling, and to maintain the payment
16 of access charges far above costs to the incumbent LEC.

17 The preferable approach is to establish non-discriminatory termination rates that do
18 not attempt to differentiate between types of calls. In this way, carriers would be
19 free to decide the scope of their own local calling areas, sizing these areas to match
20 their own perception of the market and to reflect their own pricing and marketing
21 strategies. In this way, the market -- which is to say, *consumers* -- will decide the
22 size and shape of the local calling area as carriers compete along this important
23 dimension of service.

24 **Q. DOES BELL SOUTH AGREE THAT INTERCONNECTION PRICES**
25 **SHOULD BE NON-DISCRIMINATORY?**

1 A. Yes. In BellSouth's Comments to the FCC on these same issues (CC Docket No.
2 96-98, page 63), BellSouth recommends that:

3 The [Federal Communications] Commission should take a
4 comprehensive view leading to a common model for
5 interconnection that is not based on classification of carriers as
6 LECs, IXCs, CMRS providers, or ESPs.

7 Similarly, this Commission should implement a comprehensive cost-based pricing
8 system which does not discriminate between types of calls or carriers. To the extent
9 that some portion of today's access rates are needed to subsidize particular
10 consumers or services, then that subsidy should be specifically identified and
11 explicitly recovered through a competitively neutral universal service fund.

12 **Q. IF TERMINATING LOCAL CALLS AND TERMINATING LONG
13 DISTANCE CALLS ARE IDENTICAL, WHY SHOULDN'T THE
14 COMMISSION APPLY ACCESS CHARGES TO LOCAL CALLS?**

15 A. The problem is that access charges are significantly inflated over cost. Using these
16 inflated charges to establish charges for local termination would simply adopt a
17 "poison both wells" pricing strategy. While the services might be equivalent, the
18 consequences from the excessive rate levels would not be.

19 Long distance competition has survived despite high access prices for two reasons.
20 First, incumbent LECs could not provide long distance services and, as a result,
21 retail price levels reflected that all providers faced the same (albeit high) cost for
22 this input. Second, long distance prices and access charges are both measured.
23 Therefore, access costs and revenues both grow or diminish with traffic volumes.
24 Neither of these conditions holds true in the local exchange marketplace. Entrants
25 will have to compete with BellSouth on day one, and BellSouth's cost to offer local

1 service is the economic cost of network usage, not the access charge. Second, local
2 exchange prices in Florida are flat-rated, and imposing on BellSouth's rivals a cost-
3 structure directly at odds with retail rates will place them at a disadvantage when
4 serving consumers with relatively high local calling patterns.

5 **Q. HOW SHOULD THE COMMISSION ESTABLISH LOCAL CALL**
6 **TERMINATION RATES UNTIL IT IS ABLE TO CORRECTLY**
7 **ESTABLISH ACCESS CHARGES?**

8 A. The Commission should establish cost-based termination rates for local traffic as
9 outlined in AT&T Witness Ellison's testimony. and require that such charges be
10 reciprocally applied. These cost-based termination charges should then become the
11 target rate levels for all access services. In the interim, the Commission should rely
12 on a bill and keep system.

13 **V. OPERATIONAL BARRIERS TO**
14 **ACHIEVING CUSTOMER CHOICE**

15 **Q. HOW DO OPERATIONAL ISSUES AFFECT CUSTOMERS AND THEIR**
16 **ABILITY TO BENEFIT FROM LOCAL COMPETITION?**

17 A. There are two ways that operational questions directly will impact consumer
18 perceptions concerning local competition. In order for local competition to be
19 viewed as a success:

- 20 * it must be easy for *consumers* to change local carriers, at least as easy as the
21 PIC-change process they are now familiar with, and
- 22 * it must be easy for *carriers* to serve consumers quickly and with a minimum
23 of network disruption.

24 Only if these conditions are satisfied will the market changes contemplated by the
25 Act roll out smoothly in the eyes of consumers.

1 *A. Supporting Customer Choice*

2 **Q. WHY IS IT IMPORTANT FOR OPERATING SYSTEMS TO BE ABLE TO**
3 **EASILY ACCOMMODATE CONSUMER CHOICES?**

4 A. When the Act is fully implemented, today's *familiar separation between local and*
5 *long distance companies will be replaced with many consumers choosing a full*
6 *service provider for both their local and long distance needs. A primary motivation*
7 *for full service (i.e., one-stop shopping) competition will be convenience. This may*
8 *seem obvious, but the benefits of full service competition cannot be realized if*
9 *moving to a full service provider is inconvenient and disruptive.*

10 *With this in mind, it is useful to compare the relative ease and convenience that*
11 *consumers would experience when choosing between BellSouth and any other full*
12 *service provider, including their existing long distance carrier. This is the most*
13 *relevant comparison, because these carriers today share the same customer base and*
14 *thus are most likely to approach these customers with the goal of becoming their full*
15 *service provider.*

16 **Q. ARE THE EXISTING PROCESSES USED TO IMPLEMENT CONSUMER**
17 **CHOICES AMONG LONG DISTANCE PROVIDERS AT ALL**
18 **COMPARABLE TO LOCAL SERVICES?**

19 A. No. The process used to transfer a customer to a new long distance company, the
20 PIC-change process, is automated, inexpensive and sized to handle large demands.
21 Significantly, it is also well tested, having been used for more than a decade,
22 through countless product introductions, advertising campaigns, and marketing
23 initiatives. In contrast, the "process" used to change local providers is unknown
24 and, in any environment where a physical circuit rearrangement is necessary,
25 inherently more complicated and problematic.

1 One measure of comparison is the charge imposed on a customer selecting between
2 two full service providers -- its existing local exchange carrier now offering long
3 distance services, and its long distance carrier now offering local services. If a
4 customer leaves its long distance carrier to obtain a full service package from
5 BellSouth, BellSouth would charge \$1.49 per line (the PIC-change fee).
6 Conversely, under the agreement BellSouth recently announced with ICI, if the
7 same customer shifted its local service to its long distance carrier for a full service
8 package, BellSouth would impose a non-recurring charge of \$140.00 just for the
9 unbundled loop. If other network elements are needed (and, in most cases, they
10 would be) this non-recurring charge would increase.

11 **Q. WHAT MUST OCCUR FOR COMPETITION TO SUCCEED?**

12 **A.** Consumers must be able to move between local service providers with the same
13 ease that they now move between long distance carriers. This is necessary both for
14 consumers to perceive this market change as beneficial, and to assure that both local
15 and long distance carriers have a fair opportunity to become the consumer's full
16 service provider.

17 Second, however, a PIC-like customer migration process must be available both for
18 local services resale *and* the unbundled network element approaches. Without the
19 ability to honor customer changes inexpensively, the network element option could
20 only be used to serve selected customers and the advantages of this option would be
21 limited to the few.

22 ***B. Ordering Combinations of Unbundled Network Elements***

23 **Q. HOW CAN UNBUNDLED NETWORK ELEMENTS BE USED TO PROVIDE**
24 **LOCAL SERVICES WITH THE LEAST DISRUPTION TO CONSUMERS?**

25 **A.** In order for consumers to benefit from competition, carriers must be able to easily

1 obtain and configure the unbundled network elements that they will use to provide
2 services. The key to rapid competition and easy customer choice is the ability of
3 entrants to provide service using unbundled local switching, frequently in
4 combination with other elements. With unbundled local switching, customers can
5 be moved between different providers without physically reconfiguring the service
6 to the customer.

7 **Q. CAN THE UNBUNDLED LOOP, BY ITSELF, PROVIDE THIS**
8 **FLEXIBILITY?**

9 A. No. Unbundled loops, while important, are unlikely to support broad-scale, mass-
10 application, entry into the local services market.

11 First, the unbundled-loop configuration is viable only where a collocated network
12 exists. Even where these networks are economically attractive, they now do not
13 exist and it will take time for them to be constructed and made operational.

14 Second, and more permanently, the unbundled-loop configuration easily cannot
15 effect large changes in market share between alternative providers because physical
16 changes in the network will be necessary -- i.e., the actual loop to the customer must
17 be reconfigured from BellSouth's local switch to a competitor's every time a
18 customer changes a local service provider.

19 As a result, unbundled loops (by themselves) are unlikely to foster a fully
20 competitive environment. Instead, carriers will need to order combinations of
21 network elements, typically involving unbundled local switching, to provide
22 competitive services to consumers.

23 **Q. HOW WILL CARRIERS BE ABLE TO MOVE CUSTOMERS MORE**
24 **RAPIDLY USING UNBUNDLED LOCAL SWITCHING?**

25 A. The answer is using the network to move customers without manual changes in the

1 physical connections to these customers. This condition is satisfied by a network
2 configuration which combines several network elements, including local switching,
3 to provide service. Customers can easily change among local carriers who are
4 providing services using the incumbent LEC's unbundled local switching element,
5 because the customer's lines need not be reconfigured to a different switch for
6 service. This arrangement is sometimes referred to as the "platform" configuration.

7 **Q. WHAT IS THE "PLATFORM" CONFIGURATION?**

8 A. The platform configuration is the combined purchase of unbundled switching and an
9 unbundled loop (frequently in combination with transport and signaling) to form a
10 basic exchange platform to offer local exchange and exchange access services. The
11 critical element is correctly defining unbundled local switching to enable the new
12 entrant to: (a) activate (more precisely, to *order* that the incumbent LEC activate)
13 the various features on the customer's loop that defines its local services, (b) define
14 traffic routing as alternative networks become available (although, initially, it is
15 likely that local traffic would be terminated using the incumbent LEC's network),
16 and (c) create the records to bill the end-user for local exchange service and other
17 carriers for exchange access and interconnection service. By providing services
18 using a combination of unbundled loops and switching, several of the operational
19 barriers presented by utilizing unbundled loops alone can be overcome. Again, the
20 basic definition of unbundled local switching is provided in more detail in the
21 testimony of AT&T Witness James Tamplin.

22 **Q. HOW DOES THIS CONFIGURATION OVERCOME THE LIMITATIONS**
23 **ASSOCIATED WITH THE UNBUNDLED LOOP ELEMENT DESCRIBED**
24 **EARLIER?**

25 A. First, the platform configuration efficiently uses the existing network to obtain

1 switching and call termination. As a result, its value is not artificially limited to
2 central offices where a carrier has established a collocated network node, nor does it
3 require a duplication of BellSouth's preexisting interoffice and local switching
4 matrix as a prerequisite to entry.

5 Second, customers can easily shift between local providers using the platform
6 configuration because the existing exchange line does not need to be reconfigured to
7 provide service. Because the underlying facility arrangement is unaffected,
8 operational systems should be able to accommodate market changes with an ease
9 comparable to the PIC-change process used in the long distance industry.

10 Third, one of the benefits of the platform configuration is that it solves (at least
11 temporarily) the entry barrier presented by the absence of number portability.

12 Because the new entrant's customers would continue to be served by the incumbent's
13 local switch, there is no need for consumers to change phone numbers as they move
14 between local providers.

15 **Q. ARE THERE OTHER BENEFITS FROM THIS ARRANGEMENT?**

16 **A.** Yes. The platform approach provides every carrier an ability to design its own
17 services, constrained only by its own imagination and the inherent ability of the
18 network. Unbundled local switching enables a carrier to purchase switching
19 capacity as a generic ingredient and then determine which features and capabilities
20 of the switch it will offer as part of its finished local services. The advantages of
21 this approach will become even more pronounced as the "Advanced Intelligent
22 Network" ("AIN") call processing model is introduced.

23 AIN uses a system of "triggers" to access remote databases for call processing
24 instruction. For instance, the "off-hook trigger" automatically suspends call
25 processing at the switch when the customer lifts its receiver. The trigger then

1 queries a service control database for additional instructions. One way of looking at
2 AIN is that it takes the *intelligence* out of the network switch, and uses the switch
3 simply to execute call processing. In an AIN environment, each entrant will be able
4 to define unique new services for their particular customers, even if they all use the
5 same local switch to provide dial-tone and provide the first point of switching.
6 In addition, the platform configuration allows each carrier the flexibility to provide
7 its own local exchange services to end-user customers, and exchange access services
8 to other carriers, achieving the same status and opportunities as any other local
9 telephone provider. Competition across all prices and services would then be
10 possible.
11 Of course, as noted at the beginning of this Section, none of these benefits are
12 possible unless consumers are able to easily implement a choice in carriers. That is
13 why it is so important to implement the operating systems that are described further
14 in the testimony of AT&T Witness James Tamplin.

15 VI. SUMMARY

16 **Q. PLEASE SUMMARIZE YOUR TESTIMONY.**

17 A. The Commission's decision in this proceeding may be the most significant in its
18 history as a regulator of telecommunication services. The Act has the potential of
19 bringing substantial competitive benefits to Florida consumers, providing them, for
20 the first time, direct say in the services they are offered through the power of choice.
21 Realizing these benefits, however, can occur only if the entry tools described in the
22 Act become practical, working vehicles that entrants may use to provide that choice.
23 This, in a sentence, is the fundamental objective of this arbitration -- to provide
24 AT&T (and other entrants) the tools they will need to provide local exchange
25 services in competition with BellSouth. That AT&T's request encompasses the full

1 range of entry tools provided by the Act increases the complexity of the proceeding,
2 but it also promises to provide greater and broader benefits than the limited requests
3 that have come before the Commission to date.

4 What do entrants need? Simply this: the ability to resell wholesale equivalents of
5 BellSouth's retail services at wholesale rates; the ability to purchase and combine a
6 core list of unbundled network elements, correctly priced at economic cost; and the
7 ability to terminate traffic at cost-based, reciprocally applied, charges. Each
8 supported by an operational infrastructure designed for a multi-vendor local
9 marketplace. This is what the Act provides for, this is what the entrant is entitled to,
10 and this is what the Commission must see gets implemented.

11 Why? First and most obviously, to give consumers choice. But also, because the
12 Act portends BellSouth's eventual entry into the long distance market. There,
13 BellSouth will have access to wholesale long distance services and network
14 elements at competitive prices. There, BellSouth will find an operational
15 infrastructure specifically designed to support a multi-vendor market, including
16 systems to easily implement customer choices. In short, BellSouth will find the long
17 distance equivalent to all that the Act now requires that BellSouth offer others.

18 The Commission has long recognized its role as a surrogate for competition.
19 Historically, this role has been limited to the retail market. However, under the Act,
20 the Commission's role as a competitive surrogate shifts to the wholesale level,
21 because it is there that BellSouth's network monopoly poses the greatest risk. The
22 Commission's role now includes making this network available so that multiple
23 carriers may use it to offer retail services to consumers.

24 It is this final linkage to consumer prices that the Commission should not lose sight
25 of as it approaches the issues in this arbitration. Establishing the correct carrier-to-

1 carrier arrangements is complex, but, again, the ultimate beneficiaries will be
2 Florida consumers.

3 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

4 **A. Yes.**