

STATE OF ILLINOIS  
ILLINOIS COMMERCE COMMISSION

AT&T Communications of Illinois, Inc., )  
TCG Illinois and TCG Chicago )  
)  
Petition for Arbitration of Interconnection ) Docket No. 03-0239  
Rates, Terms and Conditions and Related )  
Arrangements With Illinois Bell Telephone )  
Company d/b/a SBC Illinois Pursuant to )  
Section 252(b) of the Telecommunications Act )  
of 1996 )

DIRECT TESTIMONY  
OF  
MARC NOVACK  
On Behalf of  
SBC ILLINOIS  
EXHIBIT 8.0

Dated: May 20, 2003

ISSUES  
Interconnection 10  
UNE 16, 23, 24, 25, 26, 32

OFFICIAL FILE  
DOCKET NO. 03-0239  
SBC Exhibit No. 8.0  
Witness: novack  
Date: 6.16.03 Reporter: CJK

1 **I. INTRODUCTION**

2

3 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

4 A. My name is Marc Novack. My business address is Three SBC Plaza, Room 710, Dallas,  
5 Texas, 75202.

6

7 **Q. BY WHOM ARE YOU EMPLOYED AND WHAT IS YOUR CURRENT**  
8 **POSITION?**

9 A. I am employed by SBC Management Services, Inc. (SBC-MSI) as an Area Manager -  
10 Network Regulatory.

11 **II. EDUCATIONAL BACKGROUND AND PROFESSIONAL EXPERIENCE**

12

13 **Q. PLEASE DESCRIBE YOUR TELECOMMUNICATIONS EXPERIENCE,**  
14 **RELEVANT WORK HISTORY AND JOB RESPONSIBILITIES.**

15 A. I have been an SBC employee for twenty-seven years. I have received formal technical  
16 training at Bellcore, Telecordia, Lucent, Nortel, SBC's Center For Learning, and  
17 miscellaneous vendor schools. The scope of my training includes switching and transport  
18 engineering, maintenance, installation and translations. Past job responsibilities have  
19 included all aspects of telephony equipment installation and maintenance, engineering,  
20 project management, and new product testing and integration into SBC's network. I am  
21 currently responsible for network interconnection issues and contract negotiation support  
22 in the Network Regulatory organization. My responsibilities include the presentation,  
23 explanation and justification of the Company's network interconnection positions before  
24 regulatory and legislative authorities. I also provide technical support to SBC Network,  
25 Legal, Industry Markets and External Affairs Departments.

26 **Q. HAVE YOU PREVIOUSLY TESTIFIED IN STATE COMMISSION**  
27 **PROCEEDINGS?**

28 A. Yes, I have testified on behalf of SBC incumbent carriers in Indiana Cause No. 42001-  
29 INT-01, Illinois Docket 01-0609, and Illinois Docket 00-0769.

30

31 **Q. ON WHOSE BEHALF ARE YOU TESTIFYING?**

32 A. I am testifying on behalf of SBC Illinois.

33

34 **II. PURPOSE OF TESTIMONY**

35

36 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

37 A. The purpose of my testimony is to explain and support SBC Illinois' position on the  
38 following issues:

39 **Interconnection Issue 10**

40 **UNE Issues 16, 23, 24, 25, 26 and 32**

41

42 **ISSUE 10: SHOULD THE CHARGES FOR THE USE OF EACH PARTIES SS7**  
43 **NETWORK BE RECIPROCAL?**

44 **Q. WHAT IS YOUR UNDERSTANDING OF THE DISAGREEMENT BETWEEN**  
45 **SBC ILLINOIS AND AT&T OVER THE LANGUAGE IN THE**  
46 **INTERCONNECTION AGREEMENT REGARDING CHARGES FOR THE USE**  
47 **OF EACH PARTIES SS7 NETWORK?**

48 A. This dispute involves the compensation arrangements that are appropriate for SS7  
49 networks. Ms. Chapman addresses this issue for SBC Illinois. My testimony on this  
50 topic will be limited to a description of the SS7 network.

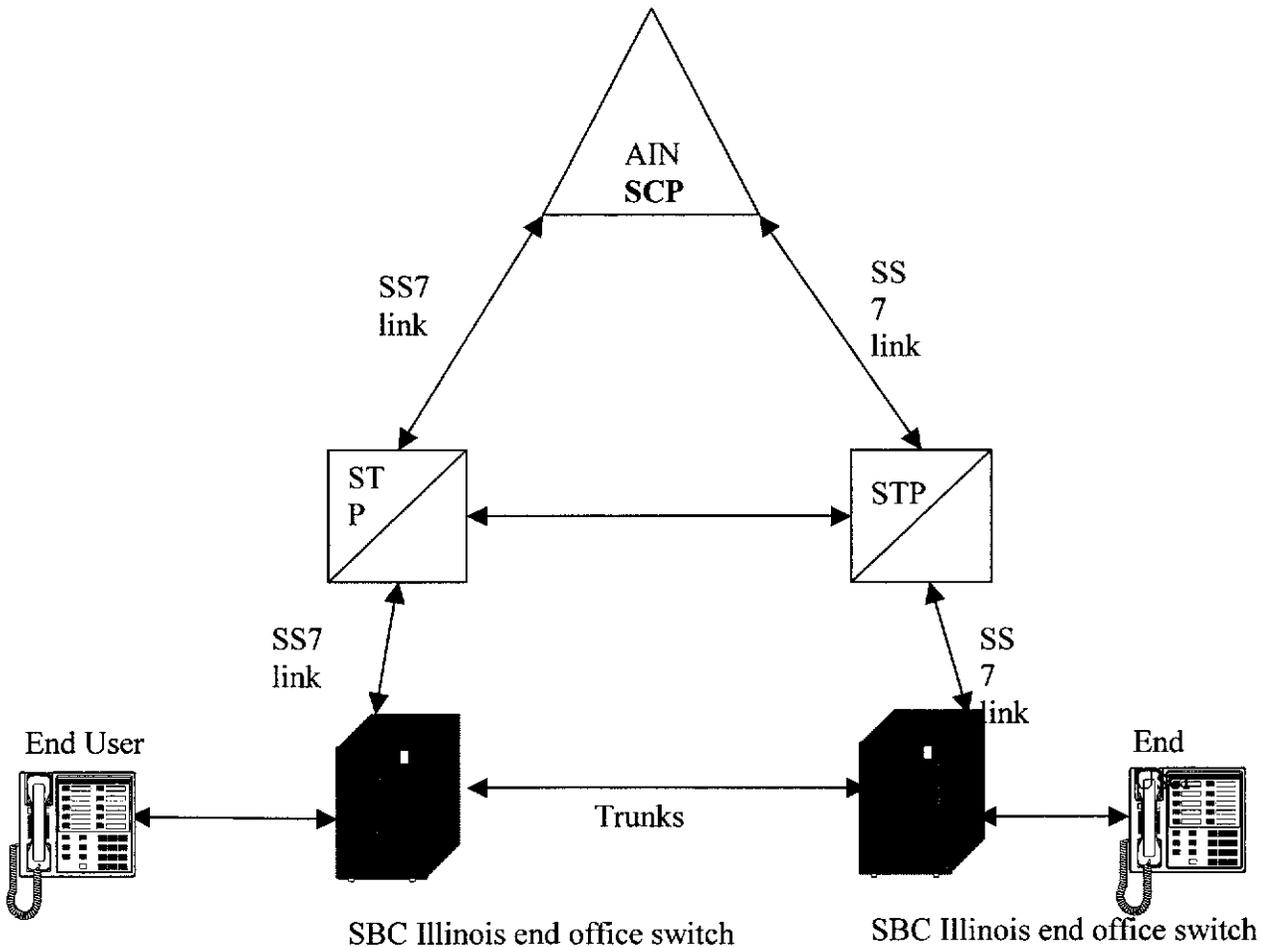
51  
52 **Q. WHAT ARE SOME OF THE ELEMENTS THAT COMPRISE THE PHYSICAL**  
53 **SS7 INFRASTRUCTURE ARCHITECTURE OF A CARRIER?**

54 A. Some of the elements that comprise the physical SS7 infrastructure architecture of a  
55 carrier are the Signal Transfer Points (STPs) and the SS7 Transport Links. The STPs  
56 contain operating system software that serves as the 'intelligence' of the SS7 network.  
57 STPs communicate with one another using SS7 signaling messages that are transported  
58 via SS7 Links that connect to a hierarchy of STPs. STPs are equipped in identical pairs  
59 for redundancy. The Links that connect an end office switch to an STP are called "A  
60 Links". The Links that connect to STP pairs are called "B and/or D Links". There is also  
61 significant capital investment for STP software that provides SS7 switching instructions  
62 for STPs.

63

64 **Q. PLEASE PROVIDE A SIMPLE DRAWING THAT IDENTIFIES THE**  
65 **COMPONENTS OF THE SS7 NETWORK.**

66 A. Below is a simple diagram of the SS7 network:



67

68 **Q. PLEASE DESCRIBE THE SIGNALING SYSTEM 7 (SS7) NETWORK IN MORE**  
69 **DETAIL.**

70 A. STP operating software, combined with other SS7 functionality, is used in the setting up  
71 and tearing down of a call. Thus, while not part of the voice network, STPs are digital  
72 devices that assist the voice network to establish calling paths. For example, assume that  
73 Ms. Smith in Chicago is calling her daughter in Los Angeles. When Ms. Smith dials the  
74 10 digit number of her daughter, the end office switch sends a signaling message over its  
75 A-Link to the STP that serves that end office switch. SS7 messaging is sent over the SS7

76 network to the end office that serves her daughter to check on whether the line is  
77 available (i.e., not "busy" or out of service). A signal is sent back through the SS7  
78 network from Los Angeles to Chicago, which tells the Chicago switch whether or not the  
79 line is available. If it is available, the Chicago switch starts a process whereby sections of  
80 voice paths between Chicago and Los Angeles are established and combined that will  
81 serve that call, and the phone rings in Los Angeles. If the line is not available, the  
82 Chicago switch gives Ms. Smith a busy signal that is generated from the Chicago switch,  
83 not the Los Angeles switch. This sophisticated SS7 network allows all carriers to avoid the  
84 expense of actually bringing into play all the resources that are necessary in order for  
85 successful call completion all the way to Los Angeles when the called party's line is not  
86 available. It prevents the called switch resources from being brought into play simply to  
87 return a busy signal, and from needlessly dedicating call path resources across the  
88 country when they will not be used to successfully complete a call. The SS7 performs  
89 many other functions, such as access to remote call databases like CNAM and LIDB.

90 The basic SS7 network is composed of: 1) SBC Illinois switches - which utilize the SS7  
91 network to retrieve additional information from the SCP (e.g., call set-up information,  
92 800 number information, caller name and address information), 2) Signal Transfer Points  
93 (STPs) - which direct the flow of SS7 messaging, 3) Service Control Databases (SCPs) -  
94 databases which contain information such as AIN software developed by SBC Illinois,  
95 and 4) digital links which are used to deliver messages between the components, as  
96 indicated by the arrows in the above diagram.

97

98 **ISSUE 16: DOES THE UNBUNDLED NETWORK ELEMENT PLATFORM (UNE-P)**  
99 **INCLUDE OPERATOR SERVICES AND DIRECTORY ASSISTANCE**  
100 **(OS/DA), TANDEM SWITCHING, AND CALL RELATED DATABASES?**

101

102 **Q. WHAT IS YOUR UNDERSTANDING OF THIS ISSUE?**

103 A. The issue I address is whether AT&T's proposed language describing the UNE-Platform  
104 should be included in the agreement. SBC Illinois maintains that the use of UNE-  
105 Platform elements by AT&T should be limited to those elements that are used in the  
106 course of normal call processing. AT&T's proposed language attempts to broaden the  
107 definition to go beyond the physical elements strictly associated with the UNE-Platform.  
108 Ms. Fuentes discusses the policy aspects of this issue. My testimony focuses on the  
109 network and operational concerns with AT&T's proposal.

110 **Q. WHAT ARE THE PHYSICAL ELEMENTS THAT MAKE UP THE UNE-**  
111 **PLATFORM?**

112 A. The FCC defines a UNE-Platform to include a loop, a switch port, and transport.<sup>1</sup> I  
113 interpret this to include an end user loop that terminates to a CLEC end user, a Network  
114 Interface Device (NID), a local switching port and associated local switch functionality,  
115 and shared transport required to allow the CLEC UNE-Platform end user access to the  
116 public switched telephone network (PSTN). I also understand that in Illinois, the  
117 Commission in Docket 01-0614 included an existing splitter in the definition of a UNE-P.

118

119 **Q. FROM A TECHNICAL PERSPECTIVE, DOES THE UNE-PLATFORM ALSO**  
120 **INCLUDE OS/DA SERVICES?**

121 A. No. Including operator services ("OS") and directory assistance ("DA") services into the  
122 UNE-Platform would imply that all calls from AT&T UNE-P end user will terminate at a

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<sup>1</sup> *In the Matter of Implementation of the Local Competition Provisions in the Telecommunications Act of 1996*, Third Report and Order CC Docket No. 96-98 (rel. Sept. 15, 1999) ("Third Local Competition Order"), ¶12.

123 SBC Illinois' OS/DA Host switch. Of course, not every call from an AT&T UNE-P line  
124 terminates at an SBC Illinois' OS/DA Host switch.

125 **Q. WHAT IS THE RELATIONSHIP BETWEEN A UNE-PLATFORM AND THE**  
126 **PHYSICAL ELEMENTS OF THE SBC ILLINOIS OS/DA PRODUCT?**

127 A. There is no direct association between the physical elements of an SBC Illinois UNE-  
128 Platform and the physical elements of the SBC Illinois OS/DA product. Each time an  
129 AT&T UNE-P end user places a call to an SBC Illinois OS/DA service, the end user is  
130 dynamically routed over a new path to a different operator. Most often, a different group  
131 operator in a different location may be used for each end user call. Since access to SBC  
132 Illinois OS/DA services is at the discretion of the AT&T end user, and since it is true that  
133 all calls from AT&T UNE-P end users will not utilize SBC Illinois OS/DA services, it is  
134 not reasonable to associate or combine the SBC Illinois OS/DA service with the SBC  
135 Illinois basic UNE-Platform product.

136 **Q. FROM A TECHNICAL PERSPECTIVE, DOES A UNE-PLATFORM INCLUDE**  
137 **CALL-RELATED DATABASES SUCH AS LINE INFORMATION DATABASE**  
138 **(“LIDB”) AND THE CALLING NAME AND ADDRESS (“CNAM”) DATABASE?**

139 A. No. Once again, there is no direct association between the physical elements of the SBC  
140 Illinois UNE-Platform and SBC Illinois call-related databases that may be accessed  
141 during normal call processing. During normal UNE-P call processing, access to SBC  
142 Illinois' call related databases is performed on a query and response basis. Each time an  
143 AT&T UNE-P end user places a call, resources for SBC Illinois' call-related databases  
144 are dynamically assigned to assist the call as necessary. Such resources are not dedicated  
145 to a specific UNE-P end user and therefore are not part of the UNE Platform itself. I  
146 prefer to think of call-related databases as UNEs to which CLECs have access in order to  
147 provide local telecommunications services, and which they can access in several ways,  
148 such as through a UNE-Platform, thorough a dedicated facility, or though an SBC Illinois  
149 UNE switch port that the CLEC uses in conjunction with its own loop. Just because they

150 can be accessed via a UNE-platform, however, does not make them part of the UNE-  
151 platform, as AT&T suggests.

152 **Q. FROM A TECHNICAL PERSPECTIVE, DOES A UNE-PLATFORM INCLUDE**  
153 **TANDEM SWITCHING?**

154 A. No. Calls from a UNE-P end user are not always routed through an SBC Illinois tandem  
155 switch. For example, if there is direct trunking between the originating SBC Illinois end  
156 office switch that serves the AT&T UNE-P end user and the terminating end office  
157 switch that serves the called end user, SBC Illinois' tandem switching will not be used.  
158 Use of Tandem switching is dependant upon what the originating UNE-P end users dials  
159 and upon the SBC Illinois network configuration in each LATA.

160

161 **Q. IF AT&T'S POSITION WERE TO PREVAIL, MIGHT THAT INTERFERE**  
162 **WITH THE WELL-ESTABLISHED RECIPROCAL COMPENSATION**  
163 **ARRANGEMENT?**

164 A. Yes. SBC Illinois has no dispute with the use of its tandem switch as a UNE and with  
165 charging for that use at TELRIC rates. This is done today through reciprocal  
166 compensation arrangements in which tandem switching is a distinct rate element that is  
167 used when SBC Illinois terminates a local call from AT&T. In other words, reciprocal  
168 Compensation allows for compensation for physical elements that are separate and  
169 distinct from the physical elements associated with the SBC Illinois UNE-Platform.  
170 AT&T's proposed language could interfere with Reciprocal Compensation because  
171 AT&T could (incorrectly) argue that it no longer has to pay SBC Illinois for the tandem  
172 switching element that is part of Reciprocal Compensation. This, of course, would be  
173 wrong because when SBC Illinois provides tandem switching it is providing a real  
174 service to CLECs and is incurring real costs. The need for that cost recovery cannot be  
175 assumed away just by rearranging a legal definition.

176 **Q. ISN'T IT TRUE THAT SBC ILLINOIS' OS AND DA, ACCESS TO CALL-**  
177 **RELATED DATABASES AND TANDEM SWITCHING ARE ALL AVAILABLE**  
178 **TO AT&T AS UNES.**

179 A. Yes.

180 **Q. HOW SHOULD THE COMMISSION RESOLVE THIS ISSUE?**

181 A. The Commission should reject AT&T's proposed language for Article 9, sections 9.3.1.1  
182 and 9.3.1.3.4.

183

184 **ISSUE 23: SHOULD AT&T BE ALLOWED TO COMMINGLE LOCAL AND TOLL**  
185 **OS/DA TRAFFIC ON EXISTING FEATURE GROUP D (FGD) TRUNKS?**

186 **ISSUE 24A: SHOULD SBC ILLINOIS BE REQUIRED TO DEPLOY CUSTOMIZED**  
187 **ROUTING FOR AT&T, BASED UPON AT&T'S PROPOSED SCHEDULE.**  
188 **OR, MUST AT&T ORDER CUSTOMIZED ROUTING VIA THE BFR**  
189 **PROCESS?**

190 **ISSUE 24B: IN WHAT MANNER SHOULD SBC ILLINOIS BE REQUIRED TO**  
191 **PROVIDE CUSTOMIZED ROUTING ASSOCIATED WITH UNES?**

192

193 **Q. CAN YOU PLEASE EXPLAIN THESE ISSUES?**

194 A. Presently, when an SBC Illinois customer dials a "0", the switch must route that call onto  
195 dedicated facilities that will carry the call to an SBC Illinois operator served by an  
196 OS/DA Host switch. When AT&T purchases a UNE platform from SBC Illinois, the  
197 switch continues to route those "0"-dialed calls to an SBC Illinois operator. AT&T, at its  
198 option, may request a feature known as "custom routing" – which will route those "0"  
199 dialed calls to an AT&T operator over its dedicated facilities. There is no dispute that  
200 SBC Illinois provides custom routing of operator services ("OS") and directory assistance

201 (“DA”) calls to AT&T, as set forth in the agreed-upon language of Schedule 9.2.6.1.6.2  
202 SBC Illinois offers two kinds of custom routing – one which routes calls to AT&T’s  
203 operators through the use of line class codes, and another which routes calls to AT&T’s  
204 operators through use of the advanced intelligent network (“AIN”) capabilities of the  
205 network. The dispute in UNE Issues 23 and 24 concerns AT&T’s demand that SBC  
206 Illinois develop a third type that is called “custom routing over Feature Group D”. UNE  
207 Issues 23, 24(a) and 24(b) involve slightly different aspects of this dispute, so I deal with  
208 all three issues together.

209

210 **Q. WHAT IS SBC ILLINOIS POSITION ON THIS REQUEST?**

211 A. Presently, custom routing over Feature Group D Is not deployed in the SBC network and  
212 cannot be deployed in certain switch types because it is not technically feasible, and for  
213 that reason SBC Illinois opposes AT&T’s language that would unconditionally obligate  
214 SBC Illinois to engage in a full scale research and development effort to deploy this  
215 capability. SBC Illinois is willing to work with AT&T to develop a technically feasible  
216 solution, but AT&T should pay for this development work. This is already provided for  
217 in Schedule 9.2.6.1.7, where the parties have agreed that “SBC Ameritech will evaluate  
218 additional methods of customized routing of local and/or OS/DA traffic (including, but  
219 not limited to existing Feature Group D) trunks on a BFR basis”. Under the BFR  
220 process, AT&T would pay for the evaluation and development of new capability that it  
221 requests (subject to the ability of switch vendors to develop the switch functionality to  
222 support the request).

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223

224 **Q. WHAT IS AT&T'S POSITION ON THIS ISSUE?**

225 A. AT&T does not address this issue in its testimony, so I cannot tell. Although Mr.  
226 Noorani's testimony lists UNE Issues 23 and 24 as being among the list of those he  
227 addresses in lines 1551-1648, in fact he does not say a single thing about custom routing  
228 over Feature Group D.

229

230 **Q. HAS THE ILLINOIS COMMISSION ADDRESSED THIS ISSUE RECENTLY?**

231 A. Yes. In connection with the recently-completed 271 proceeding in Docket 01-0662, the  
232 Commission considered this precise issue. In that case, WorldCom argued that it was  
233 technically feasible for SBC Illinois to provide custom routing over Feature Group D and  
234 that SBC Illinois should develop this capability at its own expense, without any promise  
235 that it would be compensated for these efforts. The Commission rejected WorldCom's  
236 arguments and found that SBC Illinois fully complied with federal requirement by  
237 offering custom routing via line class codes and AIN. Docket 01-0662, May 13, 2003  
238 Order ¶¶ 1985-1986.

239

240 **Q. WHY SHOULD THE COMMISSION REJECT AT&T'S PROPOSED**  
241 **LANGUAGE ON UNE ISSUE 23?**

242 A. AT&T's language in Schedule 9.2.6.1.7 would allow AT&T to "commingle" OS/DA  
243 traffic on existing Feature Group D trunks. Presently, SBC Illinois does not commingle  
244 any OS/DA traffic that is originated from an SBC Illinois end office switch with FGD  
245 traffic that originates from an SBC Illinois end office switch. And presently, it is not

246 technically feasible, since SBC Illinois does not utilize Feature Group D signaling in  
247 Illinois (or in any other state) for signaling to OS/DA Host switches. Another signaling  
248 protocol, Feature Group C (“FGC”), is the only signaling protocol used by the SBC  
249 incumbent carriers when interfacing with OS/DA Host switches. Feature group D is a  
250 signaling protocol that is specific to calls that originate from an end office switch and  
251 routed through an access tandem switch for routing to an interexchange carrier (“IXC”)  
252 network. It was developed to implement the “equal access” requirements of the 1984  
253 break-up of AT&T, so that each end user can be assigned, or pre-subscribed, to a specific  
254 IXC. In short, AT&T’s proposed language cannot be implemented in SBC Illinois’  
255 network today. If AT&T’s language were included in the agreement, I am concerned that  
256 AT&T would construe it not merely to mean that AT&T could commingle such traffic on  
257 its own (which is not technically feasible), but that SBC Illinois was required to do it for  
258 AT&T. I discuss this in more detail in connection with UNE Issues 24(a) and (b),  
259 below.

260 **Q. WHAT IS THE SPECIFIC ISSUE RAISED IN UNE ISSUES 24(A) AND 24(B)?**

261 A. Taken in conjunction with AT&T’s proposed language in Issue 23, above, AT&T’s  
262 proposed language in Issue 24 would require SBC Illinois to deploy custom routing over  
263 Feature Group D within ten (10) business days. SBC Illinois maintains that AT&T  
264 should submit a Bona Fide Request (“BFR”) pursuant to which AT&T would pay for the  
265 development of this capability, assuming that switch vendors can, in fact, make their  
266 switches work to support the concept. This is the commercially reasonable approach.

267

268 **Q. YOU HAVE ALREADY EXPLAINED THAT SBC ILLINOIS' NETWORK**  
269 **CANNOT CURRENTLY ROUTE OS/DA CALLS OVER FEATURE GROUP D.**  
270 **WOULD IT BE POSSIBLE TO DEVELOP SUCH A CAPABILITY?**

271 A. Development of new capabilities is dependent on each switch vendor. Pacific Bell has  
272 done some preliminary testing using a line class code arrangement in California.  
273 However, a WorldCom witness stated in a California regulatory proceeding that  
274 WorldCom has no proposed solution for Nortel switches to custom route WorldCom's OS  
275 traffic. He said, "We have been working on coming up with a proposed solution from  
276 Nortel although we don't have one at this point in time."<sup>3</sup> Therefore, WorldCom does not  
277 appear to have a technically feasible method of providing customized routing on FGD  
278 trunks for all switches. About 45% of SBC Illinois' switches are Nortel, so this appears  
279 to be a significant problem. SBC Illinois also uses Siemens central office switches and  
280 no test has been conducted on this type of switch. In addition, the test in California  
281 revealed problems in developing the records necessary for proper billing to occur, so  
282 even if it were feasible to resolve the routing issue, there would also be billing issues that  
283 must be overcome.

284

285 Based on discussions between AT&T and SBC Pacific Bell engineers and business  
286 managers, SBC experimented with switch software upgrades that would be necessary to  
287 use Feature Group D signaling for OS/DA on a state wide basis. I understand that SBC  
288 (and perhaps other ILECs) informed AT&T that even if some switch models could  
289 eventually be made to work with Feature Group D customized routing, this effort will not  
290 provide a ubiquitous solution until all switch vendor types and models can be upgraded.  
291 This would include the multiple varieties manufactured by Lucent, Nortel, Siemens, and

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<sup>3</sup> Arbitration hearing in Application 01-01-010, The Application of Pacific Bell for Arbitration of an Interconnection Agreement with MCI Metro., Mr. Caputo (for MCI), Tr. Vol. 9, p. 862.

292 Ericsson, among others. And, even if technically feasible on a ubiquitous basis, the cost  
293 of such a massive conversion is not known at this time.

294  
295 Thus, a significant product development effort would be required to determine the  
296 technical feasibility of such request, and if the request were found to be technically  
297 feasible, significant capital would be required to develop, test and deploy vendor software  
298 and to allow ordering and billing to fulfill the request. The BFR process is the  
299 appropriate process for this CLEC-specific development effort.

300

301 **Q. WHAT IS A BFR?**

302 A. A Bona Fide Request (BFR) is a request by a CLEC that SBC Illinois provide features,  
303 capabilities, network elements or combinations that are not otherwise provided by the  
304 terms of the contract.. In Schedule 2.2, AT&T and SBC Illinois have agreed upon the  
305 BFR provisions that will govern the new agreement.

306

307 **Q. WHY SHOULD AT&T HAVE TO PURSUE ITS REQUEST FOR CUSTOM**  
308 **ROUTING OVER FEATURE GROUP D THROUGH THE BFR PROCESS?**

309 A. Two reasons. First, the FCC has found that an ILEC can require a CLEC to use a BFR  
310 process to request a new a switch capability (which this custom routing would be):

311 We recognize that, before offering a vertical feature for the first time, a BOC  
312 will want to ensure that the requested feature will not cause adverse network  
313 reliability effects. Furthermore, a BOC will need to modify its systems to  
314 accept orders for these new features, and develop maintenance routines to  
315 resolve problems. Therefore, we find that a BOC can require a requesting  
316 carrier to submit a request for such a vertical feature through a predetermined  
317 process that gives the BOC an opportunity to ensure that it is technically

318 feasible and otherwise develop the necessary procedures for ordering those  
319 features. The process cannot be open ended and it should not be used to delay  
320 the availability of the vertical feature. A BOC must provide the requesting  
321 carrier with a response within a reasonable and definite amount of time.  
322 Furthermore, a BOC must demonstrate that the access it provides to competing  
323 carriers satisfies its duty of nondiscrimination.<sup>4</sup> (emphasis added).

324 Second, it is the fair outcome. If AT&T wants SBC Illinois to expend a great  
325 deal of time, effort and expense to investigate and develop a new capability  
326 (especially one of questionable feasibility), then it should agree up front to pay  
327 for those costs. By attempting to avoid the BFR process, AT&T is unwilling to  
328 do so.

329 **Q. HOW DO YOU CHARACTERIZE AT&T'S POSITION?**

330 A. In my view, AT&T's position is fundamentally unfair. On the one hand, it says that SBC  
331 Illinois must develop and test a capability of questionable feasibility. At the same time, it  
332 is unwilling to commit to paying for those development activities by issuing a BFR, nor  
333 has it committed to buying the capability at a price and a quantity that would allow SBC  
334 Illinois to recoup its costs.

335 **Q. ARE THERE ADDITIONAL REASONS WHY AT&T SHOULD USE THE BFR**  
336 **PROCESS IN THIS SITUATION?**

337 A. Yes. Quite often, CLECs must provide to SBC Illinois detailed engineering information  
338 that allows SBC Illinois to assess the CLEC request. Without such detailed information  
339 SBC Illinois cannot determine the viability of the request, and cannot estimate and  
340 provide costs associated with the request, if any. The BFR process is the only defined  
341 method that allows AT&T to communicate engineering and operational needs associated  
342 with the request, and that allows SBC Illinois to make the appropriate assumptions when

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<sup>4</sup> *Application of BellSouth Corporation, BellSouth Telecommunications, Inc., and BellSouth Long Distance, Inc., for Provision of In-Region, InterLATA Services in Louisiana*, FCC 98-121, 13 F.C.C.R. 20599 (Oct. 13, 1998) ("Louisiana II"), at ¶ 220.

343 it develops the new capability. Without proper communication, SBC Illinois would not  
344 know the precise functionality the CLEC desired.

345

346 **Q. YOU MENTIONED THE CONSIDERABLE EXPENSE THAT SBC ILLINOIS**  
347 **WOULD INCUR TO DEVELOP THE CAPABILITY THAT AT&T SEEKS.**  
348 **ASSUMING THAT IT IS TECHNICALLY FEASIBLE TO DO SO, WHAT**  
349 **TYPES OF EXPENSES WOULD SBC ILLINOIS INCUR?**

350

351 A. Research and development costs alone can be quite large. After research and  
352 development, the Company would have to purchase and install vendor software feature  
353 packages for all SBC end offices, including but not limited to, LUCENT, Siemens and  
354 NORTEL DMS technologies.

355 Also, costs would be incurred for all switching technologies to develop Methods and  
356 Procedures (M&P) for ordering, provisioning and billing the service, and for personnel  
357 required to implement the service. I cannot estimate the overall cost of such a project,  
358 but it would easily run into the millions of dollars.

359

360 **Q. HOW SHOULD THE COMMISSION RULE ON UNE ISSUES 23, 24(a) AND**  
361 **24(b)?**

362 A. The Commission should reject AT&T's proposed language (just one sentence) for  
363 Schedule 9.2.6.1.7 (UNE Issue 23). Similarly, the Commission should reject AT&T's  
364 proposed language for Schedule 9.2.6.1.7.2 and should adopt SBC Illinois' language  
365 instead (UNE Issues 24(a) and (b)).

366

367 **ISSUE 25: UNDER WHAT CONDITIONS SHOULD SBC ILLINOIS BE REQUIRED**  
368 **TO PROVIDE UNBUNDLED SHARED TRANSPORT?**

369 **Q. WHAT IS YOUR UNDERSTANDING OF UNE ISSUE 25?**

370 A. SBC Illinois agrees to provide access to the shared transport UNE, but seeks clarification  
371 that, for technical reasons, the shared transport UNE must be purchased in conjunction  
372 with an unbundled local switch port. My testimony is limited to this question. There are  
373 other aspects of Issue 25 and those are addressed by SBC Illinois witness Deb Fuentes.

374

375 **Q. WHAT SPECIFIC LANGUAGE IS BEING PROPOSED BY THE PARTIES?**

376 A. I set forth below the dueling language for Schedule 9.2.7.1.1.1:

377 SBC Language: Notwithstanding anything in this agreement to the  
378 contrary, SBC-Ameritech provides access to unbundled shared transport  
379 only when purchased in conjunction with a ULS port that AT&T  
380 subscribes to for the purpose of delivering traffic to/from a AT&T End  
381 User as set forth below.  
382

383 AT&T Language: SBC-Ameritech shall not impose any restrictions on  
384 AT&T regarding the use of the unbundled shared transport it purchases  
385 from SBC-Ameritech (other than as set forth in Article 9, Section 9.1.2)  
386 provided such use does not result in demonstrable harm to either SBC-  
387 Ameritech network or personnel.  
388  
389

390 **Q WHAT ARE THE TECHNICAL REASONS THAT THE SHARED TRANSPORT**  
391 **UNE MUST BE PURCHASED ONLY IN CONJUNCTION WITH UNBUNDLED**  
392 **LOCAL SWITCHING?**

393 A. The answer has to be that UST just won't operate as a stand-alone UNE –there is nothing  
394 it could do, no function it could perform, on a stand-alone basis. It is similar to a VCR  
395 and a videotape. Standing alone, neither is much good. It's only when they are used  
396 together that they actually operate as intended.

397 **Q. HAS THE FCC RECOGNIZED THAT UNBUNDLED SHARED TRANSPORT**  
398 **AND UNBUNDLED LOCAL SWITCHING ARE INTENDED TO OPERATE**  
399 **TOGETHER?**

400  
401  
402  
403  
404

A. Yes. In the *Third Local Competition Order*, at footnote 731, the FCC explicitly  
acknowledged that the only carriers that would need to use the unbundled shared  
transport UNE would be those carriers that also used the ILECs unbundled local  
switching.

405 We note at the outset that a requesting carrier that uses its own self-provisioned  
406 switch, rather than unbundled local switches obtained from an incumbent local  
407 LEC, to provide local exchange and exchange access service would use dedicated  
408 transport facilities to carry traffic between its network and the incumbent LEC's  
409 network. Thus, the only carrier that would need shared transport facilities would be  
410 one that was using an unbundled local switch.

411

412 **Q. HOW SHOULD THE COMMISSION RESOLVE THIS DISPUTE?**

413

414 A. In recognition of the fact that unbundled shared transport can only be used in conjunction  
415 with unbundled local switching, as confirmed by the FCC, the Commission should adopt  
416 SBC Illinois' language for Schedule 9.2.7.1.1.1.

417

418 **ISSUE 26: SHOULD SBC ILLINOIS REFUSE TO CUSTOM ROUTE TRAFFIC BY**  
419 **OPERATING COMPANY NUMBER (OCN) WITHIN A CENTRAL**  
420 **OFFICE?**

421 **Q. WHAT IS THIS ISSUE ABOUT?**

422

A. It's another custom routing issue, but with a different twist. When AT&T uses  
423 Unbundled Local Switching-Shared Transport ("ULS-ST") in a central office (as it does  
424 when it purchases a UNE-Platform in an office), it creates certain technical limitations on  
425 SBC Illinois' ability to custom route calls to AT&T's OS/DA provider of choice.

426

Specifically, SBC Illinois asks that AT&T custom route all of its OS/DA calls within the

427

same class of service in the same way. AT&T disagrees with this technical limitation and

428 asks SBC Illinois be able to custom route some OS/DA calls one way and other OS/DA  
429 calls a different way – based on the Operating Company Number (“OCN”) of the calling  
430 party.

431

432 **Q. WHAT IS SBC ILLINOIS’ POSITION ON THIS ISSUE?**

433 A. SBC 13 state does not use the OCN to route calls. To my knowledge, there are no class  
434 5 end office switching technologies, produced by any vendor, that use the OCN to route  
435 originating or terminating calls. The OCN is not used as a routing parameter, nor is it  
436 presently technically possible to do so. For this reason, AT&T’s proposal is technically  
437 infeasible.

438

439 **Q. WHAT IS AN OCN?**

440 A. An OCN is an Operating Company Number that identifies a specific carrier. For  
441 example, AT&T’s three local exchange carriers in Illinois use at least three OCNs: one  
442 for AT&T Communications of Illinois, one for TCG Illinois and one for TCG Chicago.  
443 OCNs are used in billing to associate the originating end user with the local exchange  
444 carrier that provides service to that end user. The OCN may also be used by a  
445 terminating carrier to identify the originating carrier of a call.

446

447 **Q. YOU SAID THAT THE OCN IS NOT USED TO ROUTE CALLS. WHAT TYPE**  
448 **OF END OFFICE SWITCHING PARAMETERS ARE GENERALLY USED TO**  
449 **ROUTE CALLS?**

450 A. Traditionally, calls are routed using the called number. For example, when I call the  
451 Company's offices in Chicago and dial 312-727-2415, the switch uses those 10 dialed  
452 digits to route the call over the public switched network. All along the call path, the  
453 network is set up to look for specific information in those dialed digits that allow it to  
454 route the call to its final destination. Databases that are peripheral to end office switches  
455 may also be used to provide additional instructions used in the routing of a call. For  
456 example, when an end user dials an 800 number, the network performs a "look-up" in the  
457 national 800 database in order to route the call to the terminating number.

458

459 **Q. WHAT IS AT&T'S POSITION ON THIS ISSUE?**

460 A. Once again, AT&T does not address this issue in its testimony, so I cannot tell. Although  
461 Mr. Noorani's testimony lists UNE Issue 26 as being among the list of those he addresses  
462 in lines 1551-1648, in fact he does not say a single thing about custom routing by OCN  
463 within an office. I do note, however, that AT&T's position statement in the DPL  
464 complains about having to use the same OCN for multiple entities because SBC Illinois  
465 has not implemented some OSS requirement from 2001. I have checked with the internal  
466 subject matter experts at SBC Midwest and we are not aware of any OSS implementation  
467 item from 2001 that would impact this OCN issue. There is an upcoming change in  
468 September of 2003 that will allow CLECs to use more than one OCN, but that change  
469 will have absolutely nothing to do with this custom routing issue. If AT&T's real issue  
470 has to do with this upcoming change to SBC Midwest's OSS, that change will take place  
471 as scheduled and no contract language is needed to address it.

472

473 **Q. HOW SHOULD THE COMMISSION RESOLVE UNE ISSUE 26?**

474 A. The Commission should reject AT&T's proposal to insert the words "and OCN" in  
475 Schedule 9.2.7.2.1. AT&T has not explained why these words are needed. SBC Illinois  
476 has explained that these words would impose an obligation that is, in fact, technically  
477 infeasible.

478 **ISSUE 32A: Should SBC Illinois be required to provide access to SBC Illinois designed**  
479 **Advanced Intelligent Network (AIN) Features functions and services?**

480 **Q. WHAT IS YOUR UNDERSTANDING OF THE DISPUTE BETWEEN SBC**  
481 **ILLINOIS AND AT&T IN REGARDS TO WHETHER SBC ILLINOIS SHOULD**  
482 **BE REQUIRED TO PROVIDE ACCESS TO SBC DESIGNED AIN FEATURES,**  
483 **FUNCTIONS AND SERVICES?**

484 A. AT&T is proposing that SBC Illinois provide access to proprietary AIN based services  
485 that SBC Illinois developed for itself.

486 **Q. WHAT IS SBC ILLINOIS' POSITION?**

487 A. SBC Illinois does not propose to disallow AT&T access to all AIN based services that  
488 have been developed by SBC. However, SBC Illinois must be allowed to retain exclusive  
489 use of SBC developed AIN based service if that service does not support the basic  
490 operational capability of an AT&T UNE-P end user.

491

492 **Q. ARE YOU INFERRING THAT SOME SBC AIN BASED SERVICES ARE**  
493 **REQUIRED TO SUPPORT THE OPERATIONAL CAPABILITY OF OTHER**  
494 **CLEC'S OR AT&T UNE-P END USERS, AND THAT SOME AIN BASED**  
495 **SERVICES DO NOT SUPPORT THE OPERATIONAL CAPABILITY OF**  
496 **OTHER CLEC'S OR AT&T UNE-P END USERS?**

497 A. Yes. And, SBC Illinois argues that there are legitimate distinctions that should be  
498 maintained between those SBC developed AIN based services that support the  
499 operational capability of other CLEC's or AT&T UNE-P end users, and those AIN based  
500 services that in no way support the operational capability of other CLEC's or AT&T  
501 UNE-P end users.

502

503 **Q. CAN YOU PROVIDE AN EXAMPLE OF AN SBC DEVELOPED AIN BASED**  
504 **SERVICE THAT IS REQUIRED TO SUPPORT THE OPERATIONAL**  
505 **CAPABILITY OF AT&T UNE-P END USERS?**

506 A. UNE-P switch port call routing over shared transport is an excellent example of an SBC  
507 AIN based service that is required to support the basic operational capability of each  
508 UNE-P end user since shared transport is used when SBC routes UNE-P end user calls to  
509 the PSTN. A shared transport product used in conjunction with AIN based services was  
510 developed by SBC Illinois to specifically support routing of CLEC UNE-P end user calls.

511 **Q. IS THE SBC SHARED TRANSPORT AIN BASED SERVICE YOU MENTION**  
512 **LIMITED TO SIMPLY ROUTING UNE-P CALLS OVER SHARED**  
513 **TRANSPORT?**

514 A. No. It also allows for UNE-P billing, inter-carrier compensation, and may be used in  
515 screening of UNE-P end users calls. Also, it must be remembered that as a condition of

516 the Illinois Ameritech merger to SBC, the routing of UNE-P end users over shared  
517 transport was to be accomplished using an AIN based service solution.

518

519 **Q. WHAT IS ANOTHER EXAMPLE OF AN SBC DEVELOPED AIN BASED**  
520 **SERVICE THAT IS USED SOLELY IN SUPPORT OF ROUTING UNE-P END**  
521 **USER CALLS?**

522 A. Customized Routing which was developed by SBC to allow UNE-P end users to be  
523 routed to transport facilities that may be dedicated to (for example) AT&T's customers  
524 only. In the context of this hearing, the basic difference between transport that is  
525 employed using Customized Routing and shared transport is that Customized Routing  
526 implies SBC will route CLEC UNE-P end user calls over transport facilities that have a  
527 dedicated use that is subject to the ordering CLEC's discretion, and usually terminate to  
528 the ordering CLEC. Shared transport implies SBC routing of any UNE-P CLEC's end  
529 user calls over transport facilities that many carrier types may share, usually with access  
530 to the PSTN.

531 **Q. MAY END USERS SELECTIVELY PURCHASE SHARED TRANSPORT,**  
532 **CUSTOMIZED ROUTING OR LNP DIRECTLY FROM SBC ILLINOIS?**

533 A. No. Shared transport, Customized Routing or LNP may not be selectively purchased by  
534 end users at home, directly from SBC Illinois. In the context of this hearing, shared  
535 transport, Customized Routing and LNP are purchased by CLECs such as AT&T.

536

537 **Q. WHAT IS AN EXAMPLE OF AN AT&T REQUESTED AIN BASED SERVICE**  
538 **WHOSE ABSENCE WOULD NOT INTERFERE WITH THE BASIC**  
539 **OPERATION OF UNE-P END USER CALLS?**

540 A. Privacy Manager® is such an example. If the AIN based service Privacy Manager® were  
541 absent from the SBC Illinois product line and had never been defined and implemented  
542 by SBC Illinois, the absence of Privacy Manager® would not interfere with the basic  
543 operation of AT&T UNE-P end user calls, would not interfere with the ability of AT&T  
544 UNE-P end users to place local or long distance calls, and would not impair AT&T's  
545 ability to offer basic local service to end users via the SBC Illinois UNE-P product.

546 **Q. WHAT IS PRIVACY MANAGER®?**

547 A. Privacy Manager® is an SBC Illinois' proprietary AIN-based service that intercepts  
548 unidentified calls that are displayed as "anonymous," "out of area," "private," or  
549 "unavailable" to end users who have caller identification ("Caller ID") with the "name"  
550 feature. When an end user with Privacy Manager® receives an incoming call from an  
551 unidentified source, Privacy Manager® tells the caller that the number he or she has  
552 dialed does not accept calls from unidentified numbers. Privacy Manager® contains  
553 options that allows the calling party to either be connected to the called party or to leave a  
554 message for the called party. Privacy Manager® also contains options that allows the  
555 called party to screen incoming calls, and to allow the calling party to connect to the  
556 called party simply by announcing the calling party's name.

557 **Q. IS PRIVACY MANAGER® A PROPRIETARY SERVICE?**

558 A. Yes. SBC holds a number of patents for Privacy Manager®.

559 **Q. DOES THE SBC ILLINOIS DEVELOPED SOFTWARE THAT WAS CREATED**  
560 **SPECIFICALLY TO SUPPORT AIN BASED SERVICES SUCH AS PRIVACY**  
561 **MANAGER® RESIDE IN CLASS 5 LOCAL END OFFICE SWITCHES THAT**  
562 **PROVIDE END USERS WITH DIAL TONE?**

563 A. No. AIN based services such as Privacy Manager® software is not loaded in class 5 local  
564 end office switches that provide end users with local dial tone service. Instead, AIN based  
565 services such as Privacy Manager® is supported by software that must be loaded into an  
566 external SBC Illinois' Advanced Intelligent Network ("AIN") architecture, or AIN  
567 platform, whenever a new AIN based service has been created by SBC Illinois. Once an  
568 end user purchases an AIN based service such as Privacy Manager®, the class 5 local end  
569 office switch that provides dial tone to the end user will interact with the AIN platform.  
570 The end office switch will query the AIN platform each time it receives a call being  
571 placed to the end user. For each call, the switch queries the Privacy Manager® service  
572 software in the AIN platform so that the call treatment described above is followed.

573 **Q. WHY IS CONSIDERABLE RESEARCH AND DEVELOPMENT REQUIRED**  
574 **FOR EACH AIN BASED SERVICE, AT GREAT COST TO SBC ILLINOIS?**

575 A. I equate the AIN platform to a blank piece of paper. Vendors who manufacture AIN  
576 platforms do not necessarily anticipate what service a carrier will develop within the AIN  
577 platform anymore so than a manufacturer of 8 1/2 x 11 reams of paper anticipates what  
578 the purchaser will write on the paper. AIN platforms are delivered by the vendors to

579 SBC Illinois as 'a blank piece of paper'. AIN services must be created by SBC Illinois  
580 and loaded into the AIN platform using predefined resources provided by the vendor.  
581 SBC Illinois must research, develop, apply and test each AIN service it chooses to deploy  
582 within the AIN platform Creation of software specific to an AIN based service requires  
583 use of the hardware and software resources of the AIN platform and is written on blank  
584 space contained within the AIN platform. Each AIN based service is strictly dependant  
585 upon the research, imagination, and creativity of the developing carrier. And, once an  
586 AIN based service such as Privacy Manager® is developed by a carrier, it remains  
587 proprietary to that carrier, and the software created that supports the AIN based service is  
588 unavailable for access and review by unauthorized users.

589 **Q. SINCE SBC ILLINOIS DOES NOT AGREE THAT AT&T MAY USE SBC**  
590 **ILLINOIS DEVELOPED AIN BASED SERVICES SUCH AS PRIVACY**  
591 **MANAGER®, IS AT&T PREVENTED FROM OFFERING AT&T UNE-P END**  
592 **USERS AIN BASED SERVICES?**

593 A. Not at all. AT&T may develop AIN based services for AT&T UNE-P end users that are  
594 defined in SBC Illinois end office switches, in the same manner as and in parity with  
595 SBC Illinois.

596 **Q. HOW MAY AT&T OFFER AIN BASED SERVICES SUCH AS PRIVACY**  
597 **MANAGER TO AT&T UNE-P END USERS THAT ARE DEFINED IN SBC**  
598 **ILLINOIS END OFFICE SWITCHES, IN THE SAME MANNER AS AND IN**  
599 **PARITY WITH SBC ILLINOIS?**

600 A. AT&T has physical access to the SBC Illinois AIN Service Creation Environment (SCE).  
601 SBC Illinois allows AT&T access to blank portions of the AIN platform where AT&T

602 may develop and apply AIN based services. And, AT&T research, imagination and  
603 creativity will benefit only AT&T's end users, at AT&T's sole discretion.

604

605 **Q. DOES SBC ILLINOIS PROVIDE TO AT&T NON-DISCRIMINATORY ACCESS**  
606 **TO THE SCE IN ILLINOIS?**

607 A. Yes. SBC Illinois provides to AT&T non-discriminatory access to the SCE. SBC Illinois  
608 has created an SCE access guide that is available to AT&T. A copy of the current guide is  
609 provided as Attachment A to Carol Chapman's testimony.

610 **Q. PLEASE GIVE AN OVERVIEW OF THE SCE ACCESS GUIDE.**

611 A. The SCE access guide explains the process that AT&T will follow to develop AT&T  
612 AIN services within SBC Illinois AIN UNE elements that comprise the SBC Illinois  
613 UNE AIN platform. More specifically, this guide provides AT&T information required to  
614 order, initiate, deploy and maintain AIN service, explains access to the Service Creation  
615 Environment and Access to the Service Management System.

616 **Q. DOES THE SCE GUIDE RELATE THE TYPES OF INFORMATION THAT SBC**  
617 **ILLINOIS WILL NEED TO ACCOMMODATE AT&T'S AIM SERVICES**  
618 **DEVELOPMENT EFFORTS?**

619 A. Yes. The SCE guide relate the types of information that SBC Illinois will need to  
620 accommodate AT&T's AIM services development efforts. It is important for SBC Illinois  
621 and AT&T to partner in such efforts so that SBC Illinois can determine which SBC  
622 systems and technical expertise will be needed for SBC Illinois to identify, and if

623 necessary upgrade, support systems and network components and to identify and make  
624 available subject matter experts who will participate in AT&T's design coordination  
625 meetings with AT&T.

626 The SCE access guide also provides that both SBC Illinois and AT&T will engage in  
627 joint Design Coordination, Service Creation, and Service Logic Testing and Field  
628 Integration Testing activities. These activities do not include SBC Illinois being part of  
629 AT&T's actual AIN services development efforts, but SBC Illinois will assist AT&T  
630 efforts to access, test and maintain its own AIN services.

631 **Q. WHY WOULD AT&T'S PROPOSAL DISCOURAGE SBC ILLINOIS FROM**  
632 **INVESTING IN RESEARCH, DEVELOPMENT, TESTING AND DEPLOYMENT**  
633 **OF NEW AIN BASED SERVICES?**

634 A. To my knowledge, there is nothing in the Telecommunications Act of 1996 that requires  
635 SBC Illinois to develop new competitive end user offerings so that they may be  
636 confiscated by SBC Illinois competitors. If AT&T prevails in this argument, SBC Illinois  
637 would have little or no incentive to invest the resources necessary to develop offerings to  
638 end users if its' competitors could simply come in and reap the benefits of the laborious  
639 product research and development effort that SBC Illinois must undergo to develop AIN  
640 based services, such as Privacy Manager®.

641 **ISSUE 32b: Should access to AIN be provided pursuant to a BFR with all terms and**  
642 **conditions and pricing negotiated pursuant to the BFR**

643

644 **Q. WHAT WILL CLECS NEED TO DEVELOP THEIR OWN SERVICES ON THE**  
645 **COMPANY'S SCE?**

646 A. I anticipate that each AT&T AIN based service development effort will be a unique  
647 effort. Due to the individual nature and potential complexity of each CLEC request to  
648 develop AIN based services, SBC Illinois is unable to anticipate all activities and  
649 resources that may be required. It must also be stressed that different SBC Illinois  
650 hardware and software resources may be required in both SBC Illinois class 5 end offices  
651 and in the AIN platform in order to accommodate each unique CLEC effort to create AIN  
652 based services. These activities will vary for every request based upon the  
653 CLEC's proposed design. As a result, SBC Illinois did not, and could not, develop  
654 methods and procedures that address the specific activities that will occur for each  
655 individual request. Instead, SBC Illinois developed a flexible process that will  
656 accommodate a wide variety of CLEC requests.

657

658 **Q. HOW WILL SBC ILLINOIS KNOW THAT AT&T WILL REQUIRE ACCESS**  
659 **TO THE SCE IN ORDER TO CREATE AIN BASED SERVICES?**

660 A. As set forth in the respective interconnection agreements between SBC Illinois and  
661 AT&T, the current process whereby AT&T may request access to the SCE and SMS, and

662 inform SBC Illinois of AT&T's intention to do so, is through the Bona Fide Request  
663 ("BFR"). Since each new CLEC service offering will potentially impact SBC Illinois'  
664 network differently, each new offering must be evaluated. The BFR process is flexible  
665 enough to adapt to the unique nature of the requesting CLEC's request.

666 **Q. HOW WOULD THE BFR PROCESS BE UTILIZED IN THIS SITUATION?**

667 A. Under the BFR process, the requesting CLEC will initially provide information necessary  
668 to allow SBC Illinois to determine which systems will be impacted by the service. Based  
669 upon this information, SBC Illinois will determine the areas where SBC Illinois network  
670 and engineering resources are required and to ensure that the CLEC AIN based services  
671 functions within SBC Illinois' specifications without causing harm to the SBC Illinois  
672 network. After reviewing the BFR request SBC Illinois will provide the CLEC with  
673 TELRIC cost information associated with each specific AIN based service development  
674 effort.

675 **Q. CAN TERMS, CONDITIONS AND PRICING BE ANTICIPATED AND**  
676 **REFLECTED IN THE CONTRACT FOR AT&T AIN BASED SERVICES**  
677 **DEVELOPMENT AND DEPLOYMENT EFFORTS, PRIOR TO RECEIVING A**  
678 **SPECIFIC REQUEST?**

679 A. Absolutely not. Each AT&T AIN based service development effort must be fully  
680 accessed by SBC Illinois to determine what SBC Illinois resources will be required.  
681 Actually, each effort will require unique resources on the part of both AT&T and SBC  
682 Illinois. Since each request will be unique, it would be impractical to try to predetermine

683 specific terms, conditions and pricing that would apply. These must be determined on a  
684 case by case basis.

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

686 A. Yes