

**BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

**In the Matter of the Petition of Qwest
Corporation to Initiate a Mass-Market
Switching and Dedicated Transport Case
Pursuant to the Triennial Review Order**

Docket No. UT-033044

DIRECT TESTIMONY OF

CEDRIC COX

ON BEHALF OF

WORLDCOM, INC. ("MCI")

December 22, 2003

REDACTED (PUBLIC) VERSION

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1 **I. INTRODUCTION**

2 **Q. PLEASE STATE YOUR NAME, EMPLOYER, AND TITLE.**

3 A. My name is Cedric Cox. I am currently employed by MCI as a Manager, Local
4 Order Processing and Order/Billing Reconciliation Support.

5 **Q. PLEASE DESCRIBE YOUR BUSINESS EXPERIENCE.**

6 A. I have 12 1/2 years of experience in the telecommunications industry: twelve
7 years with MCI and six months with Qwest. In 1991, I was employed by Qwest as a
8 sales representative. I joined MCI in 1992 as a member of the sales team for MCI's long
9 distance products.

10 Prior to becoming a manager at MCI, I held a number of positions including:
11 supervising a team of local and long distance customer service representatives;
12 supervising a team of analysts focusing on an MCI initiative to test resale, UNE-P
13 (unbundled network elements-platform), and UNE-L/ILEC (unbundled network
14 elements-loop/incumbent local exchange carrier) order processing procedures; and
15 managing the creation of billing and order processing requirements for MCI's local
16 product development.

17 My current managerial role at MCI includes overseeing local order processing
18 support, order tracking and order interval analysis, line loss performance trending, and
19 local customer reconciliation for resale, UNE-P and UNE-L. In addition, I worked with
20 the MCI product development team to address implementation of UNE-L pre-order and
21 order/batch workflow processes which will define the long term solution for MCI's
22 UNE-L provisioning activities.

23 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS**
24 **PROCEEDING?**

25 A. The purpose of my testimony is to discuss MCI's efforts to become a facilities-
26 based provider in the mass market, and to describe for the Commission solutions to the
27 numerous current customer-impacting operational barriers that must be eliminated in
28 order for MCI to make this transition fully. My testimony also explains that if MCI were
29 forced to switch to its own facilities on a flashcut basis because switching was
30 prematurely eliminated, customers and competitors would face severe negative
31 consequences.

32 **II. SUMMARY OF TESTIMONY**

33 **Q. PLEASE SUMMARIZE YOUR TESTIMONY.**

34 A. Qwest Corporation ("Qwest") is asking the Commission to remove switching as
35 an unbundled network element ("UNE") in various parts of this state. In practical terms,
36 if the Commission grants that request, it means that the UNE platform ("UNE-P" or
37 "UNE-Platform") as we know it today will be reduced or disappear. If MCI is able to
38 move to its own facilities to provide service to mass market customers in a methodical
39 and coordinated manner, elimination of Qwest switching may not have significant
40 consequences for customers, depending on when and where the cutover occurs.
41 However, premature withdrawal of switching before the appropriate processes and
42 systems are in place will have significant adverse consequences for consumers, carriers
43 and competition.

44 In this testimony, I lay out some of the operational challenges (and proposed
45 solutions) that exist for carriers, like MCI, that are moving to their own facilities for mass

46 markets customers.¹ Other operational challenges relating directly to network and
47 technology challenges are presented in Mark Stacy’s testimony on behalf of MCI. The
48 operational issues addressed in my testimony relate to the “customer’s experience” as he
49 or she attempts to switch carriers, not just to MCI from Qwest, but to MCI from other
50 competitive local exchange carriers (“CLECs”), and away from MCI to Qwest or other
51 CLECs. These issues stem from, in one way or another, the physical changes required
52 when a CLEC uses its own facilities in conjunction with Qwest unbundled loop, and the
53 difficulty in exchanging information about customers between all carriers in the seamless
54 manner that mass market customers, who tend to switch carriers frequently, have come to
55 expect. Specifically, the issues that we have identified here, as well as those in the
56 network operational testimony, must be fully defined and resolved before UNE-L can
57 become a reality for the mass market. The issues in my testimony are summarized
58 below, as are the proposed solutions or first steps recommended by MCI to address these
59 issues.

60 1. Standard processes and procedures must be developed to obtain and share
61 customer service records (“CSR”). MCI proposes that a distributed database be
62 developed, shared, and maintained by incumbent local exchange carriers (“incumbents”
63 or “ILECs”) and competitors alike.

64 2. Loop information databases must be accurate and current. MCI proposes
65 that these databases be audited for accuracy and a process be developed to ensure timely
66 maintenance.

¹ Additional operational issues will likely arise as MCI begins to move to UNE-L to serve the mass market.

67 3. Trouble handling processes must be adapted for a mass market world.
68 MCI proposes that all parties develop internal processes (if they do not already exist) to
69 ensure that trouble handling functions properly in a world with mass market volumes.

70 4. The industry must ensure that required E911 changes are sequenced
71 correctly and occur efficiently. MCI proposes that a collaborative forum be convened to
72 ensure compliance with existing standards as well as coordination among industry
73 participants including the Public Service Answering Points (“PSAPs”) in Washington to
74 ensure that all parties can handle the increased volume of transactions.

75 5. The industry must ensure that number portability processes that are in
76 place are coordinated and can handle mass market volumes. MCI proposes that the
77 commission convene a collaborative that includes the third party administrator to
78 determine the systems capabilities in a mass market environment. In addition, MCI
79 proposes that a scalability analysis be conducted to confirm that capability.

80 6. The directory listing process must be evaluated for efficiency in a mass
81 market UNE-L environment. MCI proposes that process be developed to limit the
82 number of times the directory information must be inserted and deleted from the
83 directory.

84 7. The industry must ensure that the caller name and line information
85 databases can be accessed and loaded with minimal inaccuracy. MCI proposes that
86 competitors be allowed to obtain a “dump” of the incumbent’s databases to ensure
87 accuracy and quality service.

88 For CLECs, these operational barriers impair their ability to use their own
89 facilities effectively when serving mass market customers. But even more important,

90 these operational difficulties create frustration and potentially serious problems for
91 consumers, including the inability to make or receive calls, errors in the 911 address data
92 base, and the need to re-program/re-install some customer-programmable features. In
93 discussing the complex technical issues involved in transitioning carriers from existing
94 UNE-P arrangements to UNE loops connected to CLEC switches, it is easy, sometimes,
95 to forget about the effect of such a transition on the customer. Competitive carriers, like
96 MCI, must place an emphasis on minimizing negative effects on customers who want to
97 transition onto or off of MCI's services. Ultimately, all of this is about people and the
98 kinds of competitive choices that will be available to them.

99 It is one thing to identify problems that CLECs encounter in a dynamic and
100 rapidly shifting market, but it is another to find solutions to these problems. As part of
101 this proceeding, MCI will be asking for this Commission's help in removing operational
102 barriers and impairments so that MCI (and other CLECs) can use their own facilities to
103 interconnect efficiently with Qwest and provide service to mass markets customers,
104 instead of always having to rely on leasing Qwest's facilities.

105 **III. OPERATIONAL IMPAIRMENT AS RECOGNIZED BY THE FCC**

106 **Q. DOES MCI CURRENTLY PROVIDE LOCAL SERVICES TO**
107 **RESIDENTIAL CUSTOMERS IN WASHINGTON?**

108 A. Yes. After years of laying the necessary operational and regulatory groundwork,
109 MCI began providing local service to Washington residential and small business
110 consumers through UNE-P in April 2002. MCI now serves tens of thousands of
111 Washington consumers using UNE-P, the only service delivery method that has proved
112 successful thus far in bringing local service to the mass market. MCI is now exploring a

113 move to a UNE-L service delivery method to serve these customers, because MCI would
114 prefer to serve these customers whenever possible over its state-of-the-art network and
115 other facilities and because it wants to provide voice and DSL service using the same
116 network and promote further innovation of its products and services through development
117 and deployment of new technology. Moreover, as MCI begins to roll out its broadband
118 services to consumers, MCI will integrate its broadband facilities with its voice facilities
119 and to move off the Qwest's circuit switches and onto its own facilities.

120 Today's customers have experienced relatively seamless migrations with their
121 long distance carriers, and increasingly with their local carriers as well. They will judge
122 their experience with UNE-L carriers by the same standards, and thus so should the
123 Commission.

124 **Q. DID THE FCC'S *TRIENNIAL REVIEW ORDER* RECOGNIZE THE**
125 **OPERATIONAL BARRIERS THAT CUSTOMERS MAY EXPERIENCE**
126 **WITH UNE-L CARRIERS?**

127 A. I am not a lawyer, and to the extent I discuss the *Triennial Review Order*,² I have
128 cited provisions in the *Order* that speak for themselves and control anything I express
129 here about the *Order* in my testimony. I am not, therefore, attempting to interpret the
130 *Order*, but rather citing to its language to provide my understanding of the *Order*. With
131 that explanation, it is my understanding that the *Triennial Review Order* clearly
132 recognizes that both operational and economic barriers to UNE-L competition exist

² See Report and Order and Order on Remand and Further Notice of Proposed Rulemaking, *Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carrier*, CC Docket No. 01-338, *Implementation of the Local Competition Provisions of the Telecommunications Act of 1996*, CC Docket No. 96-98, *Deployment of Wireline Services Offering Advanced Telecommunications Capability*, CC Docket No. 98-147, FCC 03-36 (rel. Aug. 21, 2003) ("*Triennial Review Order*" or "*Order*").

133 today.³ The FCC made a national finding of “impairment” with respect to unbundled
134 local switching at the mass market level based on the existence of these operational and
135 economic barriers. In essence, the FCC realized that competitors are presently unable to
136 move to a UNE-L service delivery method with the processes and procedures that
137 currently exist. Further, the FCC concluded that, for local competition to exist,
138 competitors must have access to unbundled local switching until the existing operational
139 and economic barriers associated with UNE-L are fully identified, investigated,
140 adequately resolved, and solutions are tested.

141 **Q. DID THESE OPERATIONAL BARRIERS LEAD TO THE FCC’S**
142 **FINDING OF IMPAIRMENT WITH RESPECT TO MASS MARKET**
143 **SWITCHING?**

144 A. Again, it is my understanding that in the *Triennial Review Order*, the FCC
145 explicitly recognized the complex operational issues currently preventing UNE-L from
146 being a viable local service delivery method – and concluded that these issues were
147 serious enough to find nationally that competitors are impaired without access to
148 unbundled local switching. Unlike UNE-P migrations, in which the CLEC uses the same
149 facilities as Qwest in providing local service, UNE-L migrations are complicated by the
150 necessity of physically reconfiguring facilities so that CLECs can use their own switches.
151 To this end, a physical network change as well as a greater exchange of customer and
152 other information must occur between all local providers (including CLECs and
153 intermodal providers) for UNE-L provisioning as opposed to UNE-P. Until these
154 operational issues involving UNE-L are addressed and adequately resolved – that is, until
155 migrations and service changes in a UNE-L world are as seamless and trouble-free as

³ Economic issues are not discussed in this testimony but are discussed at length in the Economic

156 they are with respect to long-distance and UNE-P – the FCC recognized that a transition
157 to UNE-L could harm competition and consumers.

158 The FCC discussed a wide array of operational issues that prevent UNE-L from
159 being a realistic local service delivery method at present.⁴ As the FCC recognized,
160 competitive carriers may face barriers associated with loop provisioning which may
161 impair their entry into the mass market.⁵ More specifically, the FCC asked the states to
162 determine whether ILECs are providing non-discriminatory access to unbundled loops.⁶
163 In making this determination, the FCC asked the states to consider more granular
164 evidence concerning ILECs in general, and specifically Qwest’s ability to transfer loops
165 in a *timely and reliable* manner.⁷ Accordingly, before UNE-L can be an operational
166 reality, Qwest must be able to transfer loops in a timely and reliable manner, not only
167 from Qwest to CLEC, but between CLECs as well. Smooth transfers are not only an
168 operational necessity, but they are mandatory to meet customers’ expectations for
169 reliable, hassle-free carrier changes.

170 **Q. ARE THESE OPERATIONAL ISSUES RELEVANT IN A TRIGGERS**
171 **ONLY CASE?**

172 A. Yes, as discussed at length in MCI’s economic testimony, these operational issues
173 must be considered in evaluating the relevant geographic market as well as in
174 determining whether a company can be considered a triggering company that is actively
175 serving the mass market.

Testimony filed by Mr. Richard Cabe on behalf of MCI.

⁴ See, e.g., *Triennial Review Order* ¶¶ 476-478.

⁵ *Id.* ¶ 512.

⁶ *Id.* ¶ 512.

⁷ *Id.*

176 **Q. PLEASE EXPLAIN WHAT YOU MEAN BY A “TRIGGER” ONLY CASE.**

177 A. The FCC provided the states with several ways to determine if competitors were
178 impaired without access to unbundled local switching. One way is an analysis of
179 “triggering” companies that have deployed their own switches and are actively serving
180 mass market customers in the relevant geographic market defined by the states. If the
181 Commission determines that there are three companies that have self deployed switches
182 and are actively serving the mass market then they can “pull the trigger” in that
183 geographic market and competitors will no longer have access to unbundled local
184 switching.

185 **Q. HOW DOES YOUR TESTIMONY ON OPERATIONAL ISSUES TIE IN**
186 **TO THE TRIGGER ANALYSIS?**

187 A. State commissions must define the geographic market that they are going to
188 analyze in the context of “trigger” only cases. Mass market customers must have a real
189 and current choice between three carriers providing local service through their own
190 switches and utilizing Qwest’s loop plant within the defined market. As the FCC noted
191 in its discussion of market definition, in conducting their granular analysis, state
192 commissions must take into consideration “competitors’ ability to target and serve
193 specific markets economically and efficiently using currently available technologies.”⁸
194 Any examination of potential triggering companies for mass market switching requires an
195 examination of whether those alleged "triggering" companies have overcome the
196 technical and customer impacting issues related to connecting Qwest’s loops to the
197 CLEC's switching facilities and can economically and efficiently serve the mass market.
198 To understand that, one needs to understand the technical/operational issues relating to

199 loop provisioning on a mass markets basis and to understand whether Qwest or the
200 alleged triggering CLEC has implemented any of the steps necessary to make the
201 provision of service to mass markets customers as seamless with UNE-L as it is with
202 UNE-P.

203 In addition, whether a company identified by Qwest as a triggering company is an
204 actual mass market competitor requires an analysis of technical and operational issues.
205 The FCC notes that the identified competitive switch providers should be actively
206 providing voice service to the mass market.⁹ This explicitly requires a determination of
207 whether these named companies are “competitive” and also “actively” providing service.
208 The state commissions must determine to what extent the services provided by these
209 named companies are comparable in cost, quality and maturity to Qwest’s services.¹⁰
210 These determinations require the states to consider the technical and operational
211 impairments that these named companies face in serving the mass market utilizing UNE-
212 L. If due to significant technical and operational barriers a competitor cannot compete to
213 provide service that is comparable to Qwest, then the CLEC should not be counted as a
214 triggering company. Basically, the Commission must address these operational issues in
215 order to determine whether the alleged "triggering" companies have overcome the
216 technical and customer impacting issues related to connecting Qwest’s loops to the
217 CLEC's switching facilities and can economically and efficiently serve the mass market.

⁸ *Id.* ¶ 495.

⁹ *Id.* ¶ 499.

¹⁰ *Id.* ¶ 499, n.1549.

218 **IV. THE HOT CUT PROCESS**

219 **Q. THE FCC APPEARED TO FOCUS A GREAT DEAL OF ATTENTION ON**
220 **THE “HOT CUT” PROCESS.**

221 A. Yes, the FCC did focus in great detail on the operational barriers associated with
222 migrating UNE-P customers to UNE-L through the “hot cut” process. The FCC focused
223 on this issue because the existing process of moving customers to UNE loops, one or a
224 few at a time, could not handle the volume of UNE loop migrations that would occur if
225 UNE switching were eliminated. Thus, the FCC found that until ILECs develop and
226 implement a process that can handle very high volumes, seamlessly and in sizeable
227 “batches,” CLECs would not be able to move all of their customers from the existing
228 UNE-P arrangement to UNE loops and CLEC switching, and thus CLECs would be
229 impaired in their ability to compete without UNE switching.

230 Although the FCC requires state Commissions to oversee the development,
231 implementation and testing of a process to handle hot cuts for batches of loops, this
232 testimony will provide only a high level description of batch cuts, and will compare and
233 contrast such batch cuts with subsequent day-to-day individual customer migrations
234 between and among different carriers. MCI will provide additional detailed testimony on
235 the batch cut process under the separate schedule developed for batch hot cut testimony.
236 In any event, the Commission should not lift the national finding of impairment based on
237 the lack of batch cut processes, until such processes are finalized in detail, implemented
238 with metrics in place to assess their performance, tested, and proven to work.

239 **Q. PLEASE DESCRIBE THE HOT CUT PROCESS.**

240 A. A “hot cut” refers to a process requiring Qwest technicians to manually
241 disconnect an existing customer’s loop, provisioned over UNE-P and carrying live traffic,
242 which was hardwired to Qwest’s switch, and physically re-wire that loop to the CLEC
243 switch, while simultaneously reassigning (*i.e.*, porting) the customer’s original telephone
244 number from Qwest’s switch to the CLEC switch.”¹¹ The “lifting and laying” of the
245 loop to move it from the Qwest main distribution frame (“MDF”) to the CLEC
246 collocation is only one small part of the hot cut process. Indeed, the process should be
247 thought of as all the work, on both the CLEC and the ILEC sides, that is required to move
248 the customer’s dial tone from one switch to another and to provide the features and
249 functions that the customer seeks. The FCC cited as barriers related to hot cuts “the
250 associated non-recurring costs, the potential for disruption of service to the customer, and
251 [its] conclusion, as demonstrated by [its] record, that ILECs appear unable to handle the
252 necessary volume of migrations to support competitive switching in the absence of
253 unbundled switching.”¹² The FCC explained that because of the manual, labor-intensive
254 nature of the hot cut process, “hot cuts frequently lead to provisioning delays and service
255 outages, and are often priced at rates that prohibit facilities-based competition for the
256 mass market.”¹³ In other words, the FCC concluded that the existing hot cut process,
257 which can handle only a few loops at a time, could not handle the high volume of loop
258 migrations that would occur if UNE switching were withdrawn, and thus posed an
259 insurmountable barrier to entry using UNE-L.

¹¹ *Id.* ¶ 421, n.1294

¹² *Id.*

¹³ *Id.* ¶ 465.

260 Qwest is an ILEC. The FCC did not exempt Qwest's hot cut processes from its
261 findings that the ILECs appeared to be unable to handle the necessary volume of
262 migrations to support competitive switching in the absence of unbundled switching.
263 Thus, it is my understanding that Qwest's existing hot cut processes that were evaluated
264 in the "271 proceedings" were explicitly found to be inadequate hot cut processes in the
265 *Triennial Review Order*.

266 **Q. DID THE FCC DISCUSS THE FATE OF CUSTOMERS IN ITS *ORDER*?**

267 A. Yes. In addition to discussing the technical aspect of these network and
268 operational issues, the FCC also explained how these issues negatively impact the
269 customer's experience itself. The FCC noted that the delay that accompanies a UNE-L
270 migration prevents competitors from providing service in a way that mass market
271 customers have come to expect.¹⁴ At a basic level, a UNE-L migration, characterized by
272 hot cuts, will always have a potentially more negative effect on a customer than a UNE-P
273 migration, because "[f]rom the time the technician disconnects the subscribers loop until
274 the competitor reestablishes service, the subscriber is without service."¹⁵ Similarly, the
275 UNE-L process of "porting" the customer's number from the CLEC switch to Qwest's
276 switch "also potentially subjects the customer to some period of time where incoming
277 calls will not be received,"¹⁶ because absent proper porting – a task that requires two
278 separate inputs to the national number portability administration data base – calls will not
279 be routed to the customer's new number on the CLEC switch. In addition to these risks,
280 a cut over to UNE-L is not automatic and automated, but depends on Qwest responding

¹⁴ *Id.* ¶ 466.

¹⁵ *Id.* ¶ 465 n.1409.

¹⁶ *Id.*

281 to a CLEC request for a change of service, which generally takes several days longer than
282 a UNE-P order.¹⁷

283 The FCC explicitly recognized that because “mass market customers generally
284 demand reliable, easy-to-operate service and trouble-free installation,”¹⁸ such disruptions
285 and delays negatively affect customers’ perceptions of the CLEC’s ability to provide
286 service. Indeed, the FCC found in the *Triennial Review Order* that the record indicated
287 that customers experiencing such difficulties are likely to blame the CLEC, not the ILEC
288 – even if the problem is caused by the ILEC.¹⁹ Moreover, because customers view the
289 ILEC as a baseline alternative to the CLEC for local service, customers’ negative
290 perception of a CLEC’s service directly hampers a CLEC’s ability to win and retain
291 customers.²⁰

292 **Q. WHAT WAS THE FCC’S ULTIMATE CONCLUSION?**

293 A. The FCC found that CLECs today are impaired nationally without access to the
294 ILECs’ unbundled local switching. The FCC recognized that numerous operational
295 impediments make UNE-L presently infeasible. Based on the FCC’s reasoning, these
296 operational impediments must be identified and adequately resolved before UNE-L can
297 be considered a viable service delivery method for mass markets.

¹⁷ See Exhibit C to Qwest’s Washington SGAT entitled “Service Interval Tables” that show an interval for UNE-P POTS conversion “as is” for 1-39 lines as the same business day if the LSR is received before noon MT, UNE-P POTS new install is 3 business day, whereas the interval for UNE-L (2/4 wire analog) begins at 5 business days for 1-8 lines and is ICB for 25 lines or more.

¹⁸ *Id.* ¶ 467

¹⁹ *See id.*

²⁰ *See id.* ¶ 466.

298 **Q. THE FCC ALSO REQUIRES THE STATES TO APPROVE AND**
299 **IMPLEMENT A “BATCH” HOT CUT PROCESS. WHAT IS THE**
300 **PURPOSE OF THE “BATCH” HOT CUT PROCESS?**

301 A. In an effort to alleviate some of the operational barriers to using UNE-L and
302 CLEC switching, the *Triennial Review Order* requires that the states investigate, approve
303 and implement a batch hot cut process (“Transition Batch Hot Cut Process”) to “cut over”
304 unbundled loops in high volumes from the ILEC to CLECs.²¹ The FCC expected that
305 such a process would enable groups of UNE-P customers installed before its *Order* took
306 effect, to be transitioned to UNE-L simultaneously in batches, thus “result[ing] in
307 efficiencies associated with performing tasks once for multiple lines that would otherwise
308 have been performed on a line-by-line basis.”²² Yet, although the FCC recognized that
309 such “a seamless, low-cost batch cut process for switching mass market customers from
310 one carrier to another is necessary, at a minimum, for carriers to compete effectively in
311 the mass market,”²³ it did not view this transitioning process as a panacea.²⁴ Indeed,
312 because this Transition Batch Hot Cut Process only addresses the issue of transitioning to
313 UNE-L the base of customers that competitors like MCI have acquired on UNE-P, it is
314 merely one discrete piece of the much larger puzzle that must be assembled before
315 UNE-L can be seen as a viable service delivery method for the mass market. In practical
316 terms, eliminating the operational barriers associated with the everyday hot cut process
317 (“Mass Market Hot Cut Process”) which will be used to move customers to and from
318 multiple carriers in a dynamic competitive market – is far more critical from MCI’s

²¹ See, e.g., *id.* ¶¶ 487-490.

²² *Id.* ¶ 489.

²³ *Id.* ¶ 487.

²⁴ See, e.g., *id.* ¶ 423 (describing the batch process as mitigating, not necessarily eliminating impairment).

319 perspective than implementing a Transition Batch Hot Cut Process that is only useful for
320 simultaneously moving blocks of UNE-P customers to UNE-L.

321 **Q. WHAT ROLE DO STATE COMMISSIONS PLAY WITH RESPECT TO**
322 **THE HOT CUT PROCESS?**

323 A. Although states must evaluate and approve a Transition Batch Hot Cut Process, to
324 fully address the barriers to using UNE-L, they must also work toward alleviating the
325 distinct operational issues associated with subsequent carrier migrations by developing
326 and implementing the Mass Market Hot Cut Process. Although it is likely that the two
327 processes will be similar in some respects, they are not identical. What MCI refers to as
328 the “Transition Batch Hot Cut Process,” because it involves the transition of large
329 numbers of customers at once, will necessarily require a number of coordinated steps and
330 scheduling with Qwest, and thus substantial Qwest involvement and oversight. In
331 contrast, the Mass Market Hot Cut Process will need to be a standardized, simple, and
332 low-cost process that can take place on a day-to-day basis. It will also have to function at
333 the same time that the other migration processes are working, including migrations to and
334 from retail, UNE-P, and resale, disconnections, suspensions, feature additions and
335 changes. Thus, although a transitional batch hot cut process is critical, it simply will not
336 address the everyday operational barriers that exist in migrating UNE-L customers from
337 CLEC to CLEC, from ILEC to CLEC, and from CLEC to ILEC, in various serving
338 configurations. To address these more fundamental difficulties with UNE-L migrations,
339 the state must streamline the standard Mass Market Hot Cut process (known as the
340 coordinated hot cut process and the frame due time process) as well, so that it is as
341 effective, efficient, seamless, low cost and as scalable as possible, but without the Qwest-

342 proposed special scheduling and Qwest handling necessary for the Transition Batch Hot
343 Cut Process. For it is only when day-to-day migrations among all carriers, using all
344 service delivery methods, take place quickly, efficiently and successfully, that a truly
345 competitive market can develop.

346 **Q. THE FCC ALSO REFERS TO THE CONCEPT OF “ROLLING ACCESS”**
347 **IN ITS *ORDER*. WHAT IS “ROLLING ACCESS”?**

348 A. In the *Triennial Review Order*, the FCC also raises the possibility of a state
349 commission granting CLECs “rolling access” to mass market switching, if the state
350 commission determines that such access would cure a finding of CLEC impairment.²⁵
351 With rolling access, CLECs would have “access to unbundled local circuit switching for
352 a temporary period [at least 90 days], permitting carriers first to acquire customers using
353 unbundled incumbent LEC local circuit switching and later to migrate these customers to
354 the competitive LEC’s own switching facilities.”²⁶ In other words, rolling access allows
355 CLECs to use UNE-P to acquire customers at the outset, but then requires that the CLEC
356 transition (*i.e.*, “roll off”) those customers to UNE-L within a specified time period after
357 acquisition. Theoretically, this process would enable the CLEC to avoid the delays and
358 disruptions of service that would occur if a CLEC had to acquire the customer via UNE-L
359 at the outset, because the customers are first acquired and then transferred to UNE-L via
360 the Transition Batch Hot Cut Process.

²⁵ See *id.* ¶¶ 521-524.

²⁶ *Id.* ¶¶ 521, 524.

361 **Q. WILL ROLLING ACCESS CURE THE OPERATIONAL BARRIERS**
362 **FACING A MOVE TO UNE-L?**

363 A. No, as this description makes clear, rolling access does not ultimately alleviate the
364 operational impairments presented by the everyday Mass Market Hot Cut Process,
365 because it is simply time-delayed batch hot cut process that focuses solely on transferring
366 UNE-P customers to UNE-L. As discussed above, the Mass Market Hot Cut Process will
367 be essential for all day-to-day ongoing customer transfers, while the Transition Batch Hot
368 Cut Process addresses customers who are initially moved *en masse* from UNE-P to
369 UNE-L as a result of UNE switching being withdrawn. For instance, even if CLECs
370 have rolling access, they will not, unless explicitly required to be included in the process
371 by state commissions, be able to rely on the Transition Batch Hot Cut Process for
372 acquiring and losing customers to other CLECs or of the number of migration scenarios I
373 describe that are truly necessary to offer customers a choice of a bundled set of services.
374 Because other CLEC customers may not be acquired on UNE-P, the migration will
375 involve only UNE-L, and thus must be accomplished with the everyday Mass Market Hot
376 Cut Process. Therefore, at best, the Transition Batch Hot Cut Process or rolling access
377 could alleviate only some aspects of CLEC impairment. Thus, it is critical that the
378 Commission investigate and resolve the substantial operational barriers associated with
379 the Mass Market Hot Cut process as well.

380 **Q. ARE THERE ANY OTHER ISSUES WITH THE CONCEPT OF**
381 **“ROLLING ACCESS” TO UNBUNDLED SWITCHING?**

382 A. Yes, not only does rolling access not cure the operational issues involved with
383 utilizing UNE-L to serve the mass market, but it also creates an additional impairment. If
384 MCI develops a new and innovative product offering using its own switches and other

385 facilities, the customer would not immediately be able to purchase that product because
386 customers must first have their loop provisioned on UNE-P, which limits MCI to
387 providing whatever features Qwest supports. Customers would be deprived of the
388 product offering until MCI could migrate them on a rolling basis to UNE-L. This can
389 create a perception problem – *i.e.*, the CLEC cannot immediately provide the services it
390 is selling.

391 **Q. WHAT IS HAPPENING IN THE TELECOMMUNICATIONS INDUSTRY**
392 **TODAY?**

393 A. The telecommunications industry is in a state of flux. It is slowly moving from an
394 industry controlled by large monopolies to an industry with multiple carriers offering
395 multiple services to a dynamic customer base. The trend in the industry is toward
396 bundled services, which allows consumers to select one carrier that meets all of their
397 communications needs.

398 **Q. WHAT IS TODAY'S TYPICAL TELECOMMUNICATIONS CUSTOMER**
399 **LIKE?**

400 A. In light of the nature of these evolving markets, and the increasing choices
401 available to consumers, today's telecommunications consumer is savvier than consumers
402 of the past. Today's consumer moves frequently between carriers and expects seamless
403 migrations and quality bundled service offerings. The consumer expects that changing
404 local service providers will be as simple and efficient as changing long distance
405 providers. Consumers want to purchase bundles of services – local voice and long
406 distance, features such as Caller ID, call forwarding and call waiting, broadband, and in
407 some instances wireless and video services as well.

408 In order to survive and flourish, given these industry conditions,
409 telecommunications providers must be able to meet and exceed these consumer
410 expectations. Providers must be able to provide consumers with seamless and efficient
411 migration between carriers, robust bundled service offerings, and timely repair and
412 maintenance. If a provider is unable to meet the customer's increasingly high
413 expectations, that provider will be pushed out of the market.

414 **V. MCI'S SERVICE DELIVERY IN THE MASS MARKET**

415 **Q. DOES MCI SERVE THE MASS MARKET TODAY?**

416 A. Yes. Today, MCI utilizes the UNE-Platform to provide its bundled product (The
417 Neighborhood) to the mass market customers. The UNE-Platform allows MCI to lease
418 end-to-end facilities from Qwest and other ILECs in order to provide services to
419 consumers. Because UNE-P allows competitive providers to enter the market fairly
420 quickly and efficiently on a broad scale, UNE-P has been, and remains, critical in the
421 development of competition in the local exchange market. However, UNE-P is not
422 necessarily the service delivery method that all CLECs would rely upon if they had other
423 alternatives. It is worth noting as the FCC and state commissions attempt to lay the
424 groundwork for carriers to enter the market using their own facilities that it has taken
425 nearly seven years – since the 1996 Telecommunications Act (“Act” or “1996 Act”)
426 became law – for UNE-P to become such an efficient, cost effective, customer-friendly
427 service delivery method.

428 **Q. IS UNE-P MCI'S SERVICE DELIVERY METHOD OF CHOICE IN**
429 **QWEST STATES?**

430 A. Not necessarily. Because using UNE-P requires CLECs to rely solely Qwest's
431 facilities, the use of UNE-P results in technological limitations on the products and
432 services that MCI and other CLECs can offer consumers. Accordingly, if it were
433 economically and operationally viable, MCI would prefer to utilize its own network (e.g.,
434 switching, transport) in conjunction with Qwest's UNE loops to provide service to its
435 customers rather than simply leasing end-to-end facilities from Qwest.

436 **Q. WHY IS MCI ATTEMPTING TO MOVE TO A UNE-L STRATEGY?**

437 A. Because it makes sense. The UNE-L service delivery method would allow MCI
438 both to utilize its state of the art network and to promote further innovation of its products
439 and services through further development and deployment of new technology.

440 MCImetro Access Transmission Services LLC ("MCImetro") – an MCI CLEC –
441 installed its first switch in 1995 in Baltimore, MD, and grew from there over time. Since
442 1995, MCI has installed local switches in the majority of Qwest states, installed
443 collocations in Qwest's central offices and installed fiber rings in major metropolitan
444 areas throughout the country. MCI uses these facilities, along with leased high capacity
445 loop facilities or their equivalent, to provide competitive local exchange service to
446 business (enterprise) customers today.

447 **Q. DOES MCI USE THESE FACILITIES TO PROVIDE SERVICE TO MASS**
448 **MARKET CUSTOMERS?**

449 A. No, not today. Despite deploying facilities across the country in the hey-day of
450 CLEC expansion, MCI's network coverage does not provide the kind of ubiquitous,
451 seamless service that its position as a "national" local carrier demands. As a result, MCI

452 has used UNE-P to provide local exchange service to mass market consumers and expand
453 its overall local footprint (geographic area it provides service).

454 **Q. IS MCI CHANGING ITS LOCAL STRATEGY?**

455 A. Given its extensive local network, it is logical for MCI to use that network
456 wherever and whenever it can instead of constantly having to battle with the ILECs to get
457 nondiscriminatory and properly priced access to UNEs such as UNE-P. Moreover, as
458 MCI begins to roll out its broadband services to consumers, it only makes sense to
459 integrate its broadband facilities with its voice facilities. Eventually, when Voice over
460 Internet Protocol (“VoIP”) that uses packet switching becomes the technology of choice
461 instead of traditional circuit switches, it will be essential that MCI move off Qwest’s
462 circuit switches and onto its own facilities anyway. MCI is planning for that future while
463 serving its over 3 million mass market customers today.

464 **Q. DOES MCI INTEND TO USE UNE-L EVERYWHERE IT HAS MASS**
465 **MARKET CUSTOMERS?**

466 A. No. I can not imagine that would happen. For one thing, there are locations
467 where MCI does not have any facilities. Generally, MCI will use UNE-L with its own
468 switches wherever it makes economic and operational sense to do so. It is highly
469 unlikely that UNE-L will make economic and operational sense everywhere in every
470 state.

471 **Q. WHAT ARE THE IMPLICATIONS OF MCI MOVING TO A**
472 **FACILITIES-BASED STRATEGY FOR MASS MARKET CUSTOMERS?**

473 A. The implications for MCI, and hopefully eventually for consumers, will be
474 enormous. First, no carrier has ever attempted to do what MCI is trying to do now. MCI
475 operates in 49 jurisdictions, dealing with the 4 major ILECs, interfacing with the 7 or

476 more different ILEC Operations Support Systems (“OSS”) across the country. MCI has
477 over 3 million mass market local customers, practically all on UNE-P now. As of
478 October 2003, MCI has more than **BEGIN CONFIDENTIAL***[REDACTED]***END**
479 **CONFIDENTIAL** customers in Washington. Those customers are spread out
480 geographically across the state; we have customers in **BEGIN CONFIDENTIAL**
481 *****[REDACTED]***END CONFIDENTIAL** central offices (CLLIs) in Washington. The size,
482 scope, and dynamics of residential customers are significant factors in MCI’s
483 determination of where it is feasible to use its own facilities. I will discuss this in more
484 detail later in the testimony.

485 **Q. PLEASE CONTINUE.**

486 A. Matching MCI’s customer base with its facilities will be a significant challenge
487 but the rewards could be huge.

488 **Q. WHY DO YOU SAY THAT?**

489 A. Most facilities-based CLECs, to the extent they are still in business, continue to
490 focus mostly, if not solely, on business customers. Business customers not only tend to
491 be more profitable, but they also tend to be concentrated in specific locations and more
492 stable. The few facilities-based CLECs that are attempting to serve residential customers
493 do so on a relatively small scale and in such a highly manual world that expansion for
494 them has been slow (at least compared to the expansion MCI has been able to accomplish
495 with the availability of UNE-P in recent years).²⁷ Cable companies have started offering
496 residential local exchange service, but not on any grand scale yet, and they do not face

497 the same operational challenges as CLECs because they are using their own cable plant
498 for loops instead of fighting with the ILECs to get access to UNE loops. However Qwest
499 reported in the Batch Hot Cut Forum that cable technicians are cutting Qwest's drops
500 from customer facilities and leaving the Qwest drop on the ground with no notice to
501 Qwest, which certainly would make migrations from cable ever more difficult.²⁸

502 Simply stated, it is no small challenge to match our existing local network to our
503 large and dynamic customer base. No carrier has yet attempted the kind of nationwide
504 facilities-based approach for mass market customers upon which MCI has embarked.

505 **Q. ARE THERE OTHER IMPLICATIONS INVOLVING MCI'S MOVE TO A**
506 **FACILITIES-BASED STRATEGY IN THE MASS MARKET?**

507 A. Yes. In order to utilize UNE-L, MCI's network will need to be "interconnected"
508 with Qwest's network in a much more integrated fashion than ever before. Beyond OSS
509 connectivity, "interconnection" in this sense also means that MCI will be physically
510 connecting its local network to Qwest's local network to get access to Qwest's loops that
511 MCI needs to serve its customers. That means growing the network that MCI already has
512 by establishing more collocations and building or leasing more transport facilities from
513 those collocations to connect to MCI's network. Mr. Stacy's testimony describes these
514 issues in greater detail.

515 **Q. WILL MCI'S MOVE TO ITS OWN FACILITIES HAVE ANY EFFECT**
516 **ON MASS MARKET CUSTOMERS?**

517 A. Yes, definitely. As noted above, when I talked about MCI's customer base, the
518 move to a facilities-based world is not simply about customers moving from the Qwest to

²⁷ See generally Batch Hot Cut Forum Transcripts, found at <http://www.qwest.com/wholesale/downloads/2003/031215/120303QT.doc>. (particularly the comments of Ms. Patty Lynott of McLeod).

519 MCI. It will not be that easy. Customers will also move from other CLECs to MCI.
520 Those CLECs may be UNE-L CLECs, or resellers, cable companies, or UNE-P CLECs.
521 In addition, those same customers will also move away from MCI. Today, customers are
522 won back to Qwest and they can, and do, go to other CLECs (UNE-L CLECs, resellers,
523 cable companies, and UNE-P CLECs), but the processes to implement these migrations,
524 particularly among facilities-based providers and from and to facilities-based providers
525 and UNE-P providers, are still in the nascent stage. Most mass markets competition is
526 UNE-P today, but as CLECs move to their own facilities, the more “simple” UNE-P
527 migration process will need to be enhanced with processes to allow customers to move
528 among all types of serving arrangements. The point here is that MCI’s move to facilities-
529 based competition will not be limited to establishing and maintaining the relationship
530 between MCI and Qwest or other ILECs; it involves (either now or in the future) the
531 entire industry—MCI, Qwest, the other ILECs, and every other CLEC offering service in
532 the state.

533 In reality, it is more than that. As I will discuss in greater detail later, the move to
534 facilities-based competition will have implications for third parties that provide
535 necessary, but ancillary services, such as the E911 providers and the local number
536 portability provider.

537 **Q. WHAT ARE OTHER CONSIDERATIONS IN THIS ANALYSIS?**

538 A. This testimony talks a lot about systems or processes, but we should never lose
539 sight of the customer. As a competitive carrier, we always have to care greatly about the
540 “customer experience” as he or she attempts to move between carriers. To the extent it is

²⁸ See Batch Hot Cut Forum Transcript, December 2, 2003, at pp. 493, L.14 to 494, L. 14.

541 difficult for customers to come to MCI for service, or, for that matter, to leave MCI, then
542 customers will not be happy with us and will be more reluctant to switch to any
543 competitive provider in the future. This is bad not just for MCI, but for the entire
544 competitive market. To the extent customers have a bad experience switching to or from
545 other carriers, those customers may be reluctant to switch to MCI or any other CLEC.
546 These negative experiences will be used by Qwest and other ILECs to retain or winback
547 dissatisfied customers.

548 **VI. CUSTOMER EXPECTATIONS**

549 **Q. WHAT EXPECTATIONS DO CONSUMERS HAVE TODAY WITH** 550 **RESPECT TO SWITCHING CARRIERS?**

551 A. Customers expect seamless transitions among carriers such as those they have
552 experienced in the long-distance industry for years and more recently in the UNE-P
553 world.

554 **Q. HOW DOES THE LONG DISTANCE TRANSITION WORK TODAY?**

555 A. Migrations among carriers in the long distance market have set a benchmark for
556 ease and speed of conversion that customers expect from local providers. Through years
557 of experience and expense, Qwest, ILECs in general, and interexchange carriers (“IXCs”)
558 developed the Primary Interexchange Carrier (“PIC”) process, using the Customer
559 Access Record Exchange (“CARE”) interface. Indeed, it has taken nearly two decades
560 of constant effort and enhancement of the PIC process (since equal access was
561 established in 1983) for transitions between long distance providers to be as smooth as
562 they are today. Looking at this process in slightly greater detail provides the appropriate

563 framework for assessing how far the present infrastructure must improve before
564 widespread UNE-L competition can be expected to work smoothly.

565 When a customer decides to change long distance carriers, that customer contacts
566 the new carrier. The new carrier then sends an electronic PIC change request (identifying
567 the customer's telephone number, the date of authorization, and a transaction code) to an
568 ILEC, CLEC, or cellular company – depending on which company currently provides the
569 customer with local service. The customer's local service provider then sends back an
570 electronic message to the new carrier, either confirming that the change has been made or
571 indicating that the change has been rejected. Common reasons for rejecting a PIC change
572 request include that the PIC is restricted or “frozen” (meaning that the local carrier
573 requires the customer to become involved in the transaction to lift the PIC), that the local
574 service is provided by a different company than that receiving the transaction, or that the
575 telephone number simply does not exist. For the majority of all such transactions, this
576 process is completely automated – the order comes into the underlying service provider's
577 computer system containing customer data, and if the order meets basic criteria, it flows
578 through the system to the switch, where the PIC is changed, and then a confirmation
579 message is sent directly to the new IXC, all without human intervention. The entire
580 process takes approximately 12 hours. Thus, because of a standard, automated process,
581 created through 15 years of refinement and cooperation – since CARE was introduced in
582 1988 – transitioning between long distance providers is the quick and relatively hassle-
583 free process that customers have come to expect.

584 **Q. IS THERE A SIMILAR EXPERIENCE TODAY IN THE LOCAL**
585 **SERVICE ARENA?**

586 A. Yes, to some extent UNE-P transitions are also relatively seamless to the
587 customer.²⁹ CLECs and ILECs have worked together over the last seven years – since
588 the passage of the 1996 Act – and this work continues today to develop an automated
589 process for the smooth migration to UNE-P of retail, resale, and CLEC-served UNE-P
590 local voice customers.³⁰ The migration process is transparent (*i.e.*, so seamless that the
591 customer is actually unaware that it is occurring) to the customer until it is completed and
592 the new provider's new features and functionalities (*e.g.*, voice mail) appear on his line.
593 There is for the most part no loss of dial tone, no need for coordination between the ILEC
594 and the CLEC, and, most importantly, no manual intervention at the central office
595 distribution frame or other loop interface. Rather, just as in the long distance world, the
596 CLEC sends a request, usually automated, to the ILEC for the migration of the new
597 CLEC customer, and the change is made. In this way, the UNE-P process is quite similar
598 to the CARE long distance process just described, and is indeed no different from the
599 customer's experience in changing features of its ILEC service without changing
600 providers. As a result of the industry efforts concerning UNE-P, millions of customers
601 have been migrated successfully from the ILECs to UNE-P CLECs, from one UNE-P

²⁹ In MCI's experience, Qwest's OSS has been the most deficient in the country and has resulted in reject rates for MCI higher than in any other BOC region. Since entering the local market in the Qwest region, MCI has had to engage in lengthy trial-and-error processes that required MCI to expend significant resources in deciphering Qwest's poor documentation and non-standard OSS. Through these efforts MCI's reject level in the Qwest region has been reduced to 22.7% (as of the week of December 12, 2003) for residential customers, down from the 50% reject rate that existed earlier in the summer of 2003. Nevertheless, a 22.7% reject rate is too high and remains higher than any other BOC region of the country which averages 10.8% including Qwest's current reject rate.

³⁰ It must be noted that it has taken seven years of considerable effort and expense to arrive at a process that is relatively seamless to the customer and allows for frequent migrations.

602 CLEC to another UNE-P CLEC with relatively little loss of dial tone and no need to
603 coordinate multiple installation and maintenance teams.

604 **VII. DETAILED DESCRIPTION OF UNE-P MIGRATION**

605 **Q. CAN YOU DESCRIBE THE UNE-P MIGRATION PROCESS IN MORE**
606 **DETAIL?**

607 A. Yes. More specifically, the process of migrating a Qwest customer to CLEC
608 UNE-P service (generally referred to as migration using the “single C” or “change
609 order”) proceeds as follows:

610 **Retail to UNE-P Migration**

- 611
- 612 • The CLEC issues a single UNE-P local service request (“LSR”) to Qwest
613 following the Qwest-defined local ordering procedures. This LSR is issued using
614 electronic data interface (“EDI”) or Qwest’s graphical user interface (“IMA-
615 GUI”). After much discussion and many Change Management requests, Qwest
616 now allows the CLEC to only provide the telephone number and house number
617 (SANO) for this transition. Directory listings can remain the same, and service
618 address information and E911 information are not required by Qwest. The E911
619 database remains intact and all updates and corrections, as well as trap and trace
620 functionality, continue to be handled by Qwest.
 - 621 • Qwest’s EDI translator (Business Process Layer or BPL) checks the order to
622 ensure that key fields are correct and, via the same computer system, returns a
623 Firm Order Confirmation (“FOC”) or an electronic error message (reject or
624 clarification) to the CLEC. The FOC provides the due date for the completion of
625 the programming necessary to complete the order.
 - 626 • If an error message is issued, the CLEC will re-submit the order, restarting the
627 process.
 - 628 • The order then electronically “flows through” to Qwest’s service order processor
629 (“SOP”), where the internal service orders necessary to make the switch
630 programming changes and billing changes necessary for the migration to UNE-P
631 are generated. Flow through ensures that errors are minimized by allowing the
632 service orders to be created mechanically, rather than typed by a service
633 representative. Qwest is now achieving well over 90% flow through for

634 “eligible” standard UNE-P POTS service orders with its EDI interface in
635 Washington.³¹

636 • Qwest’s internal service orders initiate the internal service order provisioning
637 process, including the implementation of switch feature changes. Migration
638 orders do not require the dispatch of technicians to the frame because the
639 programming changes are made at the switch and can be completed totally
640 electronically. The physical facilities (loop and cross connect) are not changed in
641 any way.

642 • Once the switch translations work is complete, Qwest’s internal systems send the
643 CLEC a Service Order Completion (“SOC”) notifier. At this point, the customer
644 has “migrated” to the CLEC.

645 • Qwest completes its internal migration process by updating its internal customer
646 service records (“CSR”) and billing records to stop billing the customer directly
647 and to begin issuing wholesale bills to the CLEC. However, Qwest has a more
648 complicated process than other BOCs that requires CLECs to take a different
649 notifier at each step of the process.

650 **Q. HOW LONG DOES THE UNE-P MIGRATION PROCESS GENERALLY**
651 **TAKE?**

652 A. CLECs and the ILECs have worked together to ensure that the migration of
653 customers from retail to UNE-P and from UNE-P to UNE-P is typically completed within
654 1 business day³² (unless the CLEC specifies a later date), regardless of the features
655 ordered. Depending on the rules established with Qwest, fully automated CLECs, like
656 MCI, can send (and receive) up to 2000 transactions (including migrations,
657 disconnections, and feature changes) per hour, because the process is almost wholly
658 electronic. Most importantly, just like a long distance PIC change, the UNE-P migration
659 process is relatively invisible to the customer and allows customers to change carriers
660 whenever they desire.

³¹ See Qwest’s Performance Results at www.qwest.com/wholesale/downloads/2003/031125/RG_271_Nov02-Oct03_Exhibit_Checklist-Final.pdf

³² See *supra* n.17.

661 **Q. IS IT IMPORTANT THAT CUSTOMERS BE ABLE TO CHANGE**
662 **PROVIDERS RAPIDLY AND SEAMLESSLY?**

663 A. Yes. As noted above, today's consumer changes carriers more frequently than
664 consumers of the past and expects to be able to do so in an efficient and timely manner.
665 In the telecommunications industry, this movement of customers to and from carriers is
666 commonly referred to as "churn." Churn generally describes the behavior of customers
667 as they move not just from ILEC to CLEC but also from CLEC to ILEC and from CLEC
668 to CLEC. Even in the case of UNE-P, migrations between CLECs today are not
669 seamless, quick or efficient. In most regions, CLEC to CLEC migration processes and
670 procedures are in the nascent stages of being developed and will require extensive work
671 by industry participants to result in viable seamless processes.

672 **Q. IS CHURN A BAD THING OR A GOOD THING?**

673 A. It is really both. Churn is a good thing for consumers, because it allows them to
674 try new products and services from various providers. Such consumer movement
675 encourages carriers to innovate and become more efficient, which in turn, attracts new
676 customers so that carriers are rewarded for innovation and efficiency. In a very real
677 sense, churn is the proof that the competitive process is working. Although good for
678 consumers, churn is problematic for industry players: not only is it expensive when
679 consumers pick a provider for only a short period of time and then leave for another
680 provider, but churn also complicates both the provider's record keeping and billing
681 process that accompany acquiring and losing a customer and those of the underlying
682 network service provider. However, competitors realize that the customer's ability to
683 move amongst providers quickly and efficiently is a necessary and integral part of a

684 competitive telecommunications landscape. Consumers cannot be “locked in” to a single
685 provider or “stranded” on a single service delivery platform. They must be able to make
686 choices and migrate among providers at will.

687 **Q. IS THERE A LOT OF CHURN IN THE INDUSTRY TODAY?**

688 A. Yes, as discussed above, customers are more educated and savvy today and move
689 more frequently among carriers to get better service packages. Churn rates today are
690 fairly high in the telecommunications industry, in both long distance and UNE-P local
691 markets. Customers are switching to and from carriers frequently. These high churn
692 rates have been enabled by regulatory requirements and changes in the OSS of the
693 carriers. Specifically, equal access in the long distance arena, and UNE-P and electronic
694 data interface (“EDI”) based order processing in the local service arena, are milestones
695 that have facilitated customer migrations and permitted churn to exist and accelerate.

696 **Q. CAN YOU GIVE A MORE REAL WORLD EXAMPLE OF CHURN IN**
697 **THE INDUSTRY TODAY?**

698 A. Yes. As of October 1, 2003, MCI had **BEGIN CONFIDENTIAL**
699 ******* ██████████ *****END CONFIDENTIAL** residential UNE-P customers in
700 Washington. These customers are distributed over **BEGIN CONFIDENTIAL ***** ██████████
701 *****END CONFIDENTIAL** central offices (CLLIs) in Qwest’s territory in Washington.
702 But that is a very static – and not completely accurate – picture of MCI’s customers in
703 Washington. MCI’s customers in Washington (and elsewhere) are very dynamic.

704 **Q. PLEASE PROVIDE AN EXAMPLE OF HOW DYNAMIC MCI'S**
705 **CUSTOMER BASE IS IN WASHINGTON.**

706 A. MCI's customers are dynamic in three respects. MCI adds customers every day
707 and loses customers every day. MCI does this across its footprint, including
708 Washington. For example, for the month of October 2003, the most recent month for
709 which we have data, we added **BEGIN CONFIDENTIAL ***[REDACTED]***END**
710 **CONFIDENTIAL** new UNE-P customers in Qwest's territory in Washington. We also
711 had **BEGIN CONFIDENTIAL ***[REDACTED]***END CONFIDENTIAL** customers leave
712 us for another carrier. Given those numbers, our churn rate in Washington in October,
713 2003 was **BEGIN CONFIDENTIAL ***[REDACTED]***END CONFIDENTIAL**. While churn
714 means that customers are reaping the benefits of competition, as discussed above, this
715 churn creates significant issues as we move to a UNE-L service delivery mechanism.

716 **VIII. PROBLEMS ASSOCIATED WITH UNE-L MIGRATION**

717 **Q. IS THERE "CHURN" IN THE UNE-L MARKET TODAY?**

718 A. No, in contrast to the telecommunications markets just described, there is no
719 widespread churn or competition today in the UNE-L market for mass-market customers.

720 **Q. WHY IS THAT?**

721 A. First of all, based upon data responses received to date, MCI believes that there
722 are very few UNE-L providers from which mass market customers can choose in Qwest's
723 service territory, and MCI believes that these providers exist in limited areas and support
724 a limited range of customers. A second, and equally compelling reason for this lack of
725 churn is that a migration to and from the UNE-L service delivery method is anything but
726 simple. In fact, it is really difficult. The systems and processes involved in a UNE-L

727 migration, as opposed to a UNE-P migration, are complex, manually intensive and
728 cumbersome. It is important to remember that it took seven years, from the passage of
729 the Act, to achieve the type of limited success that has been achieved with UNE-P in the
730 Qwest mass-market territory and UNE-P does not require a physical facility change like
731 UNE-L.

732 **Q. WHAT MAKES THE UNE-L MIGRATION PROCESS SO COMPLEX?**

733 A. Unlike UNE-P, UNE-L requires both a physical change to the facilities involved
734 in providing service to the customer (the loop serving the customer must be physically
735 disconnected from the Qwest UNE-P facilities and then connected to the UNE-L carrier's
736 facilities in Qwest's central office)³³ as well as an unprecedented exchange of
737 information between the multiple parties involved, including providers not generally
738 involved in the processes reviewed and tested by this Commission. Attached to this
739 testimony as Exhibits CC-1 through CC-8 are process flow diagrams assembled using
740 publicly available information. These process flows that indicate the pre-ordering,
741 ordering, provisioning, maintenance and repair, and billing steps involved eight core
742 migration scenarios that MCI believes it will experience in a dynamic competitive
743 market.

744 **Q. ARE THERE COMPLEXITIES THAT THIS PROCESS FLOW DOES**
745 **NOT DIAGRAM?**

746 A. Yes, while these process flows can outline the steps in a typical migration, there
747 are several things that these process flows simply cannot illustrate adequately:

³³ The technical aspects of the hot cut process are discussed in detail in the Network Operational Testimony filed by MCI.

748 1. At numerous points in this process, manual handling of the UNE-L
749 migration tasks is required, often resulting in errors and delay;

750 2. UNE-L flow through rates are somewhat lower than for UNE-P, causing
751 still more manual work and, hence, more delay and potentially more manually introduced
752 errors;

753 3. There is a significant amount of information that must be exchanged
754 among various parties to the migration (not just Qwest and the CLEC or CLECs) and the
755 failure of this information to reach its destination in a timely and accurate manner could
756 significantly affect a customer's service; and

757 4. The scalability of this process to meet mass market volumes is doubtful
758 and untested (because loops have never been migrated at mass market volumes) at this
759 time.

760 All four of these issues individually or in combination, if left unresolved, have the
761 potential to impact customer service and derail a competitor's ability to viably utilize
762 UNE-L to serve mass-market customers.

763 **Q. PLEASE EXPLAIN.**

764 A. The process of migrating a Qwest customer to CLEC UNE-L service proceeds as
765 follows³⁴:

- 766 • The CLEC issues an electronic order to Qwest requesting that the customer be
767 moved from Qwest's switch to the CLEC switch. Unlike a UNE-P order which
768 requires only the customer's name and telephone number and the features that the
769 customer will be purchasing, the UNE-L order must include more information
770 including the customer's name, address and telephone number, and information

³⁴ Qwest's Batch Hot Cut Process flow diagram is on its website at:
http://www.qwest.com/wholesale/downloads/2003/031126/Proposed_Batch_Loop_Install_11_12_03.ppt
and is attached as Exhibit CC-9.

771 on the collocation cage to which the loop will be transferred and the channel
772 facility assignment (pair) to which the loop will be terminated.

773 • The CLEC will also create internal orders to send to the National Number
774 Portability Assignment Center, the LIDB provider, and the E911 center serving
775 the customer to establish ownership of the customer's number at the appropriate
776 time. These orders must be timed to coordinate with the orders issued by the
777 Qwest. For example, Qwest's order to unlock the E911 database should be
778 complete prior to the CLEC order to accept responsibility for the record and lock
779 the database. These orders may fall out at any time causing additional customer
780 problems. During the batch hot cut discussions, Qwest stated that this order is not
781 issued in its own systems until after the cutover is complete in the service order
782 processor.³⁵

783 • Qwest's EDI translation software will accept or reject the order and return a FOC
784 or clarification/reject to the CLEC. Qwest's service order processor may now be
785 able to create the internal orders necessary to migrate the customer to UNE-L. If
786 it cannot, the orders will need to be entered manually by service center personnel.
787 Fallout rates for UNE-L orders are higher than those for UNE-P. If the order does
788 not flow through the system, Qwest service order personnel will need to type the
789 orders. Unlike a UNE-P migration, multiple related service orders must be
790 created for a UNE-L transition – generally, the local service center personnel
791 must create a Disconnect (D) order to remove the customer from Qwest's switch;
792 a New (N) order to move the loop from the MDF to the CLEC collocation
793 equipment; and a Change (C) order to change the billing to the CLEC from UNE-
794 P to UNE-L. Directory listing orders may also have to be created, as well as a
795 request to unlock the E911 data base to allow the CLEC to “claim” the customer
796 and a “trigger” order to route calls to the customer via the local number portability
797 data base rather than Qwest's switch.³⁶

798 • The internal Qwest service orders are routed to the technicians responsible for the
799 UNE-L cutover. These technicians must “find” the customer's circuit at the main
800 distribution frame by manually clipping onto the loop and “listening” for dial
801 tone, wire in a jumper cable which will allow the loop to be extended to the
802 CLEC's collocation equipment, and prepare for the cutover. The frame personnel
803 should also check for dial tone at the CLEC end, ensuring that the CLEC switch
804 will have dial tone for the customer when he/she migrates. Under Qwest's batch
805 hot cut proposal this all happens on the day of the batch hot cut, and if there is no
806 dialtone, the CLEC is given one hour to correct any problems.

807 On the day of the cut, Qwest connects the jumper from the CLEC collocation
808 cage to the frame and notifies the CLEC that the cut has been made.

³⁵ See *infra* n.43.

³⁶ See *infra* n.43.

- 809 • When the CLEC receives the cut notification, it must complete the local number
810 portability transaction by issuing a “claiming” order to the NPAC. The customer
811 will have dial tone and be able to call out during this process but will be unable to
812 receive calls until the NPAC transaction is completed.
- 813 • Qwest will issue a service order completion notification to the CLEC and will
814 also send the CLEC an email informing it that the work has been done.
- 815 • Qwest will complete the internal work required to change the billing to the CLEC
816 from UNE-P (loop and port) to UNE-L (loop only). The customer’s CSR will be
817 removed from Qwest’s systems.

818 **Q. IS THE UNE-L MIGRATION PROCESS READY FOR MASS MARKET**
819 **USE?**

820 A. No. Much of the work that is required to migrate a customer to a CLEC is
821 manual, including calls from the Qwest frame technicians to the QCCC and emails to the
822 CLEC from Qwest to inform it of the completion of the steps in the process. If carriers
823 move to a UNE-L service delivery method before the processes and procedures are in
824 place to allow migrations to take place quickly and efficiently, the churn that is a
825 trademark of competition in the long distance and UNE-P markets will create significant
826 problems both for carriers and customers. Without seamless and efficient migration
827 processes in all directions and among all carriers, customer attempts to migrate away
828 from their existing carriers could overwhelm the ability of carriers (both the losing carrier
829 as well as the acquiring carrier) to accommodate that move. The result could be chaos as
830 customers are in effect, held hostage to cumbersome untested processes that cannot
831 support the volume of orders being issued.

832 Of the 8 core migration scenarios that MCI believes it will encounter in a dynamic
833 competitive UNE-L market, the ILEC retail to CLEC UNE-L is one of the more
834 straightforward. One of the remaining seven standard migration scenarios is UNE-P to

835 UNE-L for existing CLEC customers, the migration that the FCC's requirement for a
836 transition batch cut process is intended to address. Other migration process flows are
837 more complex involving CLEC UNE-L to CLEC UNE-L migrations as well as injecting
838 DSL service into the migration either from the ILEC to the CLEC or between CLECs.
839 MCI has attached the 8 migration process flows to this testimony as Exhibits CC-1 to
840 CC-8.

841 **Q. DOES THIS MEAN THAT UNE-L WILL NEVER BE A VIABLE**
842 **SERVICE DELIVERY METHOD FOR THE MASS MARKET?**

843 A. No. As discussed in more detail below and in Mr. Stacy's testimony, these issues
844 are not insurmountable, but they must be resolved before UNE-L can be considered a
845 viable service delivery method for the mass market. Otherwise, not just competitors but
846 customers will be hurt. That should not be an acceptable outcome to the Commission.
847 The processes and procedures for migrating to and from UNE-L must be improved and
848 advanced, so that the UNE-L customer experience is as good or better than the customer
849 experience today in the long distance and UNE-P arenas.

850 **Q. WHAT WOULD HAPPEN IF COMPETITORS WERE REQUIRED TO**
851 **MOVE TO UNE-L TODAY?**

852 A. Chaos. The UNE-L migration process today is manually intensive and
853 cumbersome with multiple points of failure that could result in delay, loss of features,
854 inability to receive calls and worse yet loss of dial tone for the consumer.³⁷ If the

³⁷ See generally Batch Hot Cut Forum transcripts and Qwest's batch Hot Cut Proposal filed November 12, 2003, where Qwest's states it is using many of its current "hot cut" processes to create its existing batch hot cut proposal, and where Qwest will rely on telephone calls, faxes, e-mails and similar manual procedures to communicate with CLECs, rather than using a system such as the Verizon's Wholesale Provisioning and Tracking System ("WPTS") which is posted on Qwest's website at: <http://www.qwest.com/wholesale/downloads/2003/031211/WPTSCLECInterface.ppt> and at a Verizon website at: <http://www22.verizon.com/wholesale/ldp/apphome/1,,3-WPTS,00.html>

855 transition to UNE-L is made prematurely, the progress that has been made toward a
856 dynamic, competitive telecommunications market since the passage of the 1996 Act will
857 be erased.

858 **Q. SO, IT IS NOT VIABLE FOR MCI TO UTILIZE UNE-L TODAY FOR ITS**
859 **MASS-MARKET CUSTOMERS?**

860 A. No, use of UNE-L is not viable today for the mass market because of the
861 significant operational barriers that remain. If competitors were immediately required to
862 utilize UNE-L – with the existing processes and procedures for accessing and installing
863 an unbundled loop – it would be impossible for them to meet customer expectations, and,
864 more likely than not, customers would experience a delay or loss of service when
865 switching carriers. This is simply not acceptable in today’s telecommunications
866 environment, in which consumers expect quality service and the ability to move among
867 providers quickly and efficiently and would create more material for Qwest to use in
868 advertising demeaning CLEC service quality. In order for UNE-L to be a viable service
869 delivery method, it must allow competitors to meet and exceed customer expectations. In
870 particular, migrations between carriers utilizing UNE-L must be seamless and the
871 systems and processes of the entire industry – Qwest, other ILECs, CLECs and third
872 parties – must be fully functional and capable of working together effectively. Today
873 these systems and processes are highly manual and are untested in a mass market
874 environment.

875 **Q. PLEASE EXPLAIN THE SPECIFIC OPERATIONAL BARRIERS TO**
876 **UTILIZING UNE-L THAT EXIST TODAY.**

877 A. There are multiple points where there are changes to customer records and
878 information in both internal and external databases that are required for migration to a

879 UNE-L service delivery method. Many of these changes result from the fact that the
880 CLEC switch will be utilized in the provision of service with UNE-L versus Qwest's
881 switch that is used with UNE-P. Because there is very little mass market UNE-L
882 competition today there are a great many unanswered questions surrounding these
883 transfers and information exchanges. These exchanges of information all represent
884 potential points of failure in the UNE-L world that do not exist today with UNE-P.
885 While it appears that they do not represent major technical network barriers that must be
886 overcome, these coordination, database, and ordering issues represent operational barriers
887 that are of critical importance to both the customer and the service provider.

888 As noted above, in this testimony MCI is focusing on the customer impacting
889 operational issues. Mr. Stacy's testimony will deal with the more technical operational
890 issues such as the hot cut itself and the presence of integrated digital loop carrier
891 ("IDLC") in Qwest's networks. Specifically the customer impacting operational issues
892 involve the necessary exchange of information that needs to take place quickly and
893 efficiently in a UNE-L world. MCI will describe for the Commission the issues
894 involving Customer Service Records ("CSR"), Local Facilities Administration and
895 Control System ("LFACS"), E911, National Number Portability Administration Center
896 ("NPAC"), Line Information Database ("LIDB") and Caller Name Database ("CNAM")
897 and Directory Listing/Directory Assistance ("DL/DA") as well as possible solutions. All
898 of these customer record/information changes must take place as efficiently and
899 seamlessly as possible in a UNE-L environment. In addition, MCI will discuss the
900 changes in trouble handling that must take place before MCI can operate effectively in a
901 UNE-L world.

902 **Q. WHAT IS THE ISSUE INVOLVING CUSTOMER SERVICE RECORDS?**

903 A. Obtaining accurate and complete customer information is essential to a CLEC's
904 ability to submit a valid order. CSRs are used to identify address, features, directory and
905 other information for migrating customers. CSRs show the most current customer
906 configuration based on the switch port and Qwest's internal billing systems. During the
907 pre-order phase of a migration, the CLEC representative needs to obtain current customer
908 and service information in order to create the order. While this information can be
909 retrieved on a real time basis for Qwest's customers and for CLEC customers served by
910 UNE-P or resale, it is not available in the Qwest systems for customers served by UNE-
911 L. Moreover, the systems and processes required to obtain and share this information
912 have not been developed for all migration scenarios – most notably CLEC to CLEC
913 migrations, for example loop to UNE-P or loop to loop. In addition, there are no
914 processes in place at all for migrations from intermodal competitors like cable
915 companies, who are not using the Qwest loop (or even the Qwest NID) at all.

916 **Q. IS THIS AN ISSUE IN A UNE-P WORLD?**

917 A. No. This is not an issue in initial migrations from Qwest whether they are to
918 UNE-P or UNE-L or UNE-P to UNE-P because all the data required for the migration
919 continues to reside in the Qwest systems. In addition, Qwest and other ILECs currently
920 support migrations by telephone number and customer name or telephone number and
921 house number for UNE-P and resale, which reduces the errors in the process. This is not
922 true for UNE-L migrations or in the proposed Qwest batch hot cut process, where a full
923 service address and MSAG valid E911 address will be required. In these initial

924 migrations, Qwest's systems contain the relevant customer information and the CLEC
925 representative has electronic access to Qwest's systems and can retrieve the information.

926 **Q. IS THIS PROCESS THE SAME WITH ALL MIGRATIONS?**

927 A. No. Obtaining this type of customer information becomes much more
928 complicated in a CLEC to CLEC UNE-L migration because Qwest no longer has the
929 current CSR information (because the customer is being served off of a CLEC switch)
930 and MCI must contact the other carrier by email, fax, or through a web site to obtain the
931 relevant information. At this time there are no standard processes for the exchange of
932 CSR data between CLECs, which renders this process much less efficient.

933 **Q. WHAT MAKES UNE-L CSR REQUIREMENTS DIFFERENT?**

934 A. Since the customer is currently a UNE-L customer with another CLEC, the
935 representative cannot run pre-order queries against Qwest's databases to validate the
936 information needed to initiate an order. The MCI representative must at this point
937 contact the other CLEC to obtain the relevant information, including the circuit ID for the
938 loop facility currently providing service to the customer, the most important piece of data
939 needed to move a customer from UNE-L to another provider.

940 Today's CSR alone does not provide all of the information necessary for
941 migrations in a UNE-L environment – other than the initial migration from Qwest to
942 CLEC. In a UNE-L world, the departing customer gains new information from the
943 CLEC that Qwest does not – and has no means to obtain. For example, when a Qwest
944 customer initially migrates to CLEC-1 (a UNE-L provider), that CLEC obtains the
945 customer's CSR from Qwest, but this CSR does not include the "circuit ID," which will
946 be used by Qwest to track where the customer's loop appears on the Qwest main

947 distribution frame (“MDF”) or interconnection distribution frame (“ICDF”) after the
948 migration. The circuit ID information is critical, since MCI will need that information to
949 ensure that the same physical loop can be used to serve the customer. This information is
950 returned to the winning CLEC with the Firm Order Confirmation (“FOC”) and must be
951 passed on to the next service provider to allow the re-use of the customer’s facility. Once
952 the customer has migrated to the UNE-L carrier, Qwest is generally no longer able to
953 associate a customer’s CSR with the circuit ID – only CLEC-1 can do that. Because all
954 information needed for UNE-L migrations is not readily available – either because Qwest
955 cannot provide it, or because there are not reliable, comprehensive systems for
956 transferring this information among CLECs – the CSR system must be revised and
957 expanded to function properly for UNE-L.

958 **Q. WHAT HAS BEEN DONE THUS FAR AT THE STATE LEVEL TO**
959 **ADDRESS THIS ISSUE?**

960 A. While CLECs, ILECs, and the states continue to work collaboratively to attempt
961 to develop CLEC to CLEC migration procedures, the ability to share CSRs and obtain
962 circuit ID information is not yet in place. While CLEC to CLEC migration processes
963 have been worked out on paper, each company can provide CSR information as it
964 chooses using its own transmission method (fax, website, email) and no quality assurance
965 processes have been developed. Today, there is no standard CSR framework to support a
966 UNE-L environment.³⁸ MCI pulls all CSR's manually and has to research the "facilities"
967 and hand write those on the actual CSR after printing and before faxing to the carrier.
968 This CSR issue must be addressed and the infrastructure developed prior to the

³⁸ See, Ordering and Billing Forum (“OBF”) of Alliance for telecommunications Industry Solutions (“ATIS”) website at: <http://www.atis.org/atis/clc/obf/obfhom.htm>

969 implementation of UNE-L. Unless we do so, customers will be stuck where they land in
970 their first migration (because other carriers have no means to obtain the information
971 necessary to migrate the customer to another carrier) or ILECs will be forced to install
972 more and more facilities to compensate for the inability to identify the current circuit
973 being used. There is an item on the OBF agenda for this.³⁹

974 CLEC to CLEC information exchange processes are still under development and
975 tend to vary state by state. Qwest and CLECs are in the earliest stages of developing a
976 CLEC to CLEC migration process and have reached no agreements on how this process
977 should be managed. Some states, such as New York and Florida, have established
978 requirements for the data to be included in the CSR. Under the New York rules, for
979 example, there are 13 pieces of information that must be included in a CSR record:
980 billing telephone number; working telephone number; billing name and address; directory
981 listing information (including listing type); complete service address; current PICs (for
982 both inter and intraLATA, including freeze status); local freeze status, if applicable; all
983 vertical features; options (such as toll blocking and remote call forwarding); tracking or
984 transaction number; service configuration information (*i.e.*, whether customer is served
985 via resale, UNE-P, UNE-L, etc.); the identification of the network service provider, and
986 the identification of any line sharing or line splitting on the line.

³⁹ As stated on the OBF website: *Multi-Provider Migration*: With the advent of local competition, challenges associated with seamlessly migrating an end user to a new service provider is at the forefront of several state Public Utility Commission agendas. Designing an industry-wide standard for migrating end users has become critical to ensure companies have one process that benefits all companies. http://www.atis.org/atis/clc/obf/LSOP/multi_migration.htm.

987 **Q. DOES MCI AGREE WITH THE NEW YORK GUIDELINES?**

988 A. While MCI agrees with the New York Guidelines as far as they go, we propose
989 that additional information be added to New York's list of requirements. Specifically,
990 MCI recommends that the list include: 1) Qwest's feature name and USOC for vertical
991 features and blocking options to ensure that CLECs can understand each other's CSRs; 2)
992 circuit ID information (currently provided in a second step in the process); and
993 3) identification of line sharing/line splitting providers. In addition, CLECs must be
994 required to provide contact information for requesting CSRs and must commit to
995 providing CSR data within specific timeframes.

996 **Q. ASIDE FROM THE ADDITIONS TO THE NEW YORK**
997 **REQUIREMENTS, DOES MCI HAVE A PROPOSAL TO RESOLVE THE**
998 **CSR ISSUE?**

999 A. Yes. Going forward, it will be necessary to implement a solution to these
1000 problems. MCI proposes the establishment of a distributed CSR database, shared and
1001 maintained by CLECs and ILECs alike. These database improvements may take a
1002 considerable amount of time, expense, and effort to accomplish, but are necessary before
1003 UNE-L migrations can be handled on the same basis as UNE-P migrations.

1004 **Q. PLEASE EXPLAIN YOUR DISTRIBUTED DATABASE PROPOSAL IN**
1005 **MORE DETAIL.**

1006 A. MCI recommends that a central clearinghouse be maintained to identify the owner
1007 of a particular customer and to launch a query to retrieve that customer's service
1008 information. The central database would function similarly to the current CARE
1009 clearinghouse, directing requests to the proper providers following a single data
1010 communications protocol. Under this proposal, CLECs would maintain CSRs in a

1011 standard format and would agree to standard delivery methods and time frames.
1012 Companies that did not want to maintain their own CSRs or could not develop the
1013 software necessary to electronically transmit that information to other carriers could
1014 contract with the third-party clearinghouses that would inevitably spring up to support
1015 this process. State commissions would need to develop metrics and enforcement
1016 procedures to ensure that information is exchanged within the appropriate time frames.
1017 Until such a distributed method is developed, MCI believes that Qwest can continue to
1018 provide access to the information it has about customers on its network as well as the
1019 information remaining after a customer leaves the network.

1020 **Q. ARE THERE OTHER DATA BASE ISSUES?**

1021 A. Yes, work is required on all the data bases utilized to configure and provide UNE-
1022 L to mass markets customers, including LFACS, E-911, LIDB, CNAM, DA/DL, and
1023 potentially others.

1024 **Q. WHAT IS THE PROBLEM WITH LFACS?**

1025 A. In the pre-order phase, MCI may submit a loop qualification inquiry (to LFACS)
1026 to determine loop make-up information. The accuracy of the data is critical to the
1027 CLEC's ability to determine if it can serve the customer. For example, the CLEC needs
1028 to know if the customer's loop is all-copper (and can be unbundled) or is served through
1029 an integrated digital loop carrier ("IDLC") system, which Qwest claims cannot be
1030 unbundled, or whether the customer has fiber to the home.⁴⁰ Qwest requires that loops
1031 served by IDLC be handled separately and will not unbundle fiber to the home.

⁴⁰ MCI discusses the various options for unbundling IDLC loops in its Network Impairment testimony.

1032 **Q. IS THE DATA CONTAINED IN LFACS ACCURATE?**

1033 A. At this point we truly do not know. There has been evidence in other proceedings
1034 (various 271 proceedings as well as the Virginia arbitration proceeding at the FCC) that
1035 LFACs does not contain accurate data. Given the current low level of UNE-L and DSL
1036 competition, it is difficult to know how inaccurate that data was, despite testing done
1037 during the 271 process. In batch hot cut forum, Eschelon and McLeod representatives
1038 have alluded to database accuracy problems for the loop qualification toll.

1039 **Q. HOW DOES MCI PROPOSE TO RESOLVE THIS ISSUE?**

1040 A. MCI proposes that LFACS be audited for accuracy and a process be developed to
1041 ensure that it is accurately maintained (real time) when Qwest alters or changes its loop
1042 plant. This is particularly important as Qwest retires its copper plant and replaces it with
1043 fiber. In addition, CLECs must be able to “reserve” a spare copper facility when a
1044 customer is migrating to ensure that that migration can take place. Currently, while
1045 LFACS will allow a CLEC to determine whether there is spare copper to support the
1046 unbundling of the customer’s service, that copper loop may be “taken” by another CLEC
1047 or Qwest itself to serve another customer in the process of migrating or changing his loop
1048 to allow the provision of data services.

1049 **Q. ISN’T TROUBLE HANDLING ALSO DIFFERENT IN A UNE-L VERSUS**
1050 **A UNE-P WORLD?**

1051 A. Absolutely. When providing UNE-L service, each company is responsible for
1052 maintaining its respective portions of the network. The CLEC is responsible for its
1053 switch, collocation space, and transport. Qwest is responsible for the loop, frame, and

1054 connectivity to the CLEC collocation space. This is a notable difference from UNE-P,
1055 where Qwest is fully responsible for making repairs to the switch and network.

1056 **Q. SPECIFICALLY, WHAT IS DIFFERENT ABOUT TROUBLE**
1057 **HANDLING IN A UNE-L WORLD?**

1058 A. In a UNE-L environment, MCI representatives gather the appropriate information
1059 from the customer and make an initial trouble assessment. In order to do this, MCI must
1060 “sectionalize” the trouble and determine whether a dispatch in to the switch or frame or a
1061 dispatch out to the field is required. If no trouble is found after a “dispatch in,” the initial
1062 ticket may be closed and a new ticket must be opened. If the problem is in the MCI
1063 portion of the network, MCI must either dispatch a technician to its collocation cage or
1064 work with Qwest to clear the problem. This process could increase out of service times
1065 and the multiple handoffs between companies could harm customers by putting them in
1066 the middle of “finger pointing” exercises.

1067 **Q. WHY IS THIS AN ISSUE?**

1068 A. Since few mass markets customers today have UNE-L service, this trouble
1069 handling process has not yet been adapted for a world where customer service outages
1070 must be repaired rapidly so that residential customers can continue to be able to receive
1071 dial tone with the same reliability as Qwest customers.

1072 **Q. HOW DOES MCI PROPOSE TO HANDLE THIS ISSUE?**

1073 A. In order for trouble handling in a UNE-L environment to be viable, CLECs like
1074 MCI need to obtain newer and more advanced test equipment as well as develop internal
1075 processes to address this trouble handling and the anticipated volumes. In addition, all

1076 parties need to make sure that the dispatch rules surrounding trouble handling are
1077 adequate and function properly under mass market volume constraints.

1078 **Q. ARE THERE CHANGES INVOLVING A CUSTOMER'S E911**
1079 **INFORMATION?**

1080 A. Yes. When a consumer migrates from Qwest, other ILECs (or another CLEC) to
1081 MCI, the 911 database must be updated to reflect the new switching provider. This
1082 change occurs shortly after the loop is cutover to the CLEC and requires Qwest to
1083 "unlock" the E911 database. This allows the CLEC record to overlay the existing Qwest
1084 record with updated information, including the CLEC company code and a 24 hour, 7
1085 days a week ("24x7") emergency number as well as the current customer address
1086 information (if necessary).

1087 **Q. WHAT HAPPENS IF THE CHANGE IS NOT MADE CORRECTLY?**

1088 A. If this change is not made correctly, the customer's E911 information in the
1089 Automatic Line Identification ("ALI") database will not include the CLEC's company ID
1090 or the customer's correct address if the customer moved or the record required some
1091 other correction. It is essential that this change to E911 be done correctly and also that it
1092 be seamless and transparent to the migrating consumer.

1093 **Q. IS THIS CHANGE REQUIRED IN A UNE-P WORLD?**

1094 A. No such change is required in a UNE-P world where Qwest retains control over
1095 the 911-database information for the UNE-P CLEC.

1096 **Q. COULD YOU EXPLAIN THE NECESSARY E911 CHANGE IN MORE**
1097 **DETAIL?**

1098 A. Specifically, in a UNE-L environment there are two orders required for changes
1099 to the 911 ALI database.⁴¹ One order must go from Qwest to the 911 provider to unlock
1100 the record in the ALI database. This allows the CLEC to overlay the existing record with
1101 the updated 911 ALI record, once the migration has been successfully processed.

1102 The second order must go through the CLEC's vendor (or Qwest if the CLEC has
1103 contracted with it) to overlay the existing 911 record with the new record. It is essential
1104 that these orders be coordinated so that Qwest's unlock order arrives before the CLEC
1105 "Migrate" order to populate the database.

1106 A critical issue here is the timing of the "unlock" order. While Qwest has stated
1107 that they will send the "unlock" transaction to NPAC when the lift and lay is complete
1108 and the order is completed in WFA, MCI needs further information on this process and
1109 how the CLEC will be notified of the actual work completion and the 911 unlock. In
1110 MCI's experience in providing UNE-L to business customers, we have discovered that
1111 many ILECs do not send the "unlock" order until the CLECs migration order has actually
1112 closed in the provisioning system.⁴² Since this will necessarily be sometime after the

⁴¹ Qwest in most cases maintains the 911 Selective Router used for routing a 911 call to the appropriate PSAP. The PSAP dips into the ALI database when a 911 call is received to retrieve the address of the caller. The PSAP is the custodian of the data required to dispatch emergency personnel. The PSAP must have a record for each customer a facilities CLEC owns and must be able to contact that carrier.

⁴² See Batch Hot Cut Forum Transcript, December 2, 2003, at pp. 600, L. 17 to 601, L. 11, at <http://www.qwest.com/wholesale/downloads/2003/031215/120303QT.doc>, where it is stated:

MR. UREVIG (Qwest Witness): The 911 unlock will happen approximately 6:00 p.m. It would be batched with any D[isconnect] order that has been completed for that day.

MS. LICHTENBERG: So the D order doesn't complete at the end of the shift, it completes at 6:00 p.m.?

MR. UREVIG: The D order would be completed in the service order processor when the order is completed in WFA, depending upon the acceptance of the inward action.

MS. LICHTENBERG: I think I get it but let me give you an example. Let's go back to the 3:00 a.m. to the 11:00 a.m. cut window to make sure that I understand what you're saying. Order completes at

1113 physical completion of the order, there could be a time lag where the 911 system has
1114 incorrect information on the network service provider. The National Network
1115 Numbering Association (“NENA”) standard is to send the 911 order at the time of port.
1116 MCI follows that standard. This discrepancy between Qwest and CLEC processes could
1117 lead to major problems regarding the accuracy of the 911 database and the ability of
1118 CLECs to provide current information to update the database. Qwest systems should be
1119 revised so as to send the 911 record at the time of porting. This change would greatly
1120 improve the timeliness of the 911 record process and further ensure that accurate
1121 customer information is in the 911 database.

1122 **Q. WHAT HAPPENS IF THE ORDERS ARE NOT SEQUENCED**
1123 **CORRECTLY?**

1124 A. If the sequence of the orders is disrupted, the 911 database cannot be updated.
1125 While the customer will be able to dial 911, the Public Safety Answering Position
1126 (“PSAP”) will only see the old customer record, which may or may not be accurate and
1127 will contain the wrong company ID for correction or trap and trace requests. As the
1128 number of UNE-L orders increases and particularly during the bulk transition of
1129 customers from UNE-P to UNE-L, the problem will become more severe. Most
1130 importantly, the CLEC will be required to manually check the PSAP information to
1131 determine if the update has been accepted and has passed the myriad of required edits.

11:00 a.m. At 6:00 p.m. that night you issue the unlock via batch to the E-911 PSAP to unlock the record. So that customer is still listed in 911 as a Qwest customer, even though he's been my customer for about seven hours.

MR. UREVIG: Yes.

1132 **Q. DOES MCI HAVE A SUGGESTION ON HOW TO FIX THIS PROBLEM?**

1133 A. Yes. Aside from requiring Qwest and other ILECs to comport with the NENA
1134 guidelines as discussed above, these critical 911 orders must be coordinated through the
1135 various systems and processes of all industry players in order to ensure that migration to
1136 UNE-L does not result in E911 problems. MCI suggests that the states convene some
1137 type of collaborative forum to ensure that the orders are coordinated. Today, these 911
1138 changes take place for a limited number of consumers because UNE-L is not used
1139 predominantly in the mass market. However, if UNE-L were to become a viable mass-
1140 market service delivery method, it would be essential to ensure that the 911 changes
1141 required with such a migration are accurate as well as seamless and transparent to the
1142 consumer. In addition, CLECs, state commissions, and the PSAPs need to work together
1143 to ensure that the PSAP database can handle the increased volume of unlock and lock
1144 requests issued in a UNE-L environment.

1145 **Q. ARE THERE ISSUES INVOLVING NPAC IN A UNE-L MIGRATION?**

1146 A. Yes. The National Number Portability Administration Center handles the data
1147 base updates necessary to determine the “home switch” for each UNE-L (and cable)
1148 customer – *i.e.*, the switch that customer is associated with.

1149 **Q. ARE NPAC CHANGES NECESSARY WITH UNE-P?**

1150 A. No. Since UNE-P utilizes Qwest’s switching, there is no need to send
1151 transactions for UNE-P migrations to the NPAC, keeping the number administration task
1152 to a manageable level. When CLECs move to UNE-L, however, this becomes a
1153 necessary and integral part of the process – and one that is currently untested at mass-
1154 market volumes.

1155 **Q. PLEASE EXPLAIN.**

1156 A. When a customer migrates to UNE-L, a transaction must be sent to NPAC to
1157 identify the “destination” switch for calls to this number. Qwest initiates this transaction
1158 by creating a “10 digit trigger” in the donor (losing) switch at the time the UNE-L order
1159 is created. The trigger will cause incoming calls to “dip” into the NPAC database to
1160 determine the switch that now houses the number. The CLEC initiates the second step of
1161 this process when it receives notification from Qwest that the cut has been completed.
1162 The CLEC then sends a transaction to NPAC to claim the number. Until the CLEC
1163 claims the number in the NPAC database, the customer will be unable to receive any
1164 incoming telephone calls.⁴³ If the NPAC transaction is not completed successfully, (for
1165 example, the NPAC system is down, the request is formatted incorrectly, or Qwest has
1166 not notified the CLEC that the cut is complete) the customer will not be able to receive
1167 calls, since they will be directed to the incorrect home switch.⁴⁴ It is essential that the
1168 NPAC process be coordinated and successful. If it is not, consumers could experience
1169 service problems that simply do not exist today with UNE-P, and these problems may
1170 occur on a switch-by-switch basis, causing some calls to complete to the UNE-L
1171 customer but not others. The current experience of customers trying to port their number
1172 between wireless carriers provides a good example of the problems that are occurring in
1173 the local number portability process. The number portability problems are causing many
1174 customers to carry two telephones, one from their new provider and one from their old
1175 provider, to ensure that they will continue to receive calls. While this is merely

⁴³ Recently in New York, Verizon has indicated that it will now retain control over both of the NPAC orders in a UNE-L migration.

⁴⁴ The customer’s voice mail will also be impacted.

1176 inconvenient to wireless customers (and perhaps more expensive than necessary –
1177 subscribing to two different wireless carriers at the same time) customers can still receive
1178 calls directed to their number. With wireline local number portability, customers would
1179 likely be livid if the process does not work properly as the customers would have no
1180 work-around to receive calls from their former carrier until the number is properly ported
1181 over to the carrier providing dial tone to the residence.

1182 When the customer changes carriers again, the losing carrier must “unlock” the
1183 existing record to allow the winning carrier to “replace” it with its destination code. Both
1184 churn and the addition of wireless local number portability (the ability for customers to
1185 migrate their numbers between wireless carriers and from wireline to wireless carriers)
1186 will raise the number of transactions processed by the NPAC tremendously. It is unclear
1187 whether or not NPAC will be able to handle the volumes of transactions that would occur
1188 in a dynamic UNE-L market. If they cannot handle the volumes, changes to the NPAC
1189 process will undoubtedly prove necessary.

1190 **Q. DOES MCI HAVE ANY SUGGESTED RESOLUTION TO THIS ISSUE?**

1191 A. MCI recommends that the Commission immediately open a collaborative
1192 discussion between Qwest, other ILECs, CLECs, and the current NPAC administrator,
1193 Neustar, to determine NPAC’s actual capabilities and to develop metrics for the
1194 completion of number portability tasks. Volume testing or scalability analysis will also
1195 be required to determine whether NPAC can actually handle the volumes of numbers that
1196 will be ported in a single day. Since a failure of the NPAC system will have a direct
1197 negative impact on customers, it is critical that the movement to UNE-L for mass markets

1198 customers not take place until all parties are clear that the system can support the
1199 increased volumes.⁴⁵

1200 **Q. ARE THERE ISSUES WITH DIRECTORY LISTING AND DIRECTORY**
1201 **ASSISTANCE?**

1202 A. Yes. In a UNE-L world, CLECs must send directory listing information to Qwest
1203 to include in both the printed and on-line directories of each company. This step occurs
1204 as part of the UNE-L migration order.

1205 **Q. ARE CHANGES TO DL/DA NECESSARY WITH UNE-P?**

1206 A. No. No changes are necessary in a migration to UNE-P.

1207 **Q. PLEASE EXPLAIN.**

1208 A. The CLEC completes the directory listing form and sends it with its order to
1209 Qwest for processing. While an "as is" (i.e., no change) directory listing can be ordered
1210 from Qwest as part of the "first" retail to UNE-L migration (or UNE-P to UNE-L
1211 conversion), this process must be repeated with full information for each subsequent
1212 change. This increases the likelihood of errors or deletions in the directory as it is
1213 "opened" to remove listings and "closed" to put the same listings back in. This was an
1214 issue raised in the state 271 proceedings by UNE-L carriers that had evidence of directory

⁴⁵ See, Batch Hot Cut Forum, Transcript, December 3, 2003, at pp. 722, L. 1 to 724, L. 19, found at <http://www.qwest.com/wholesale/downloads/2003/031215/120303QT.doc>, where it is stated:

MS. LICHTENBERG: . . . what we haven't been able to address in this forum and what is not a part, if you will, of the batch process, the simple -- or the single process of moving a customer from one switch to another, are the ancillary processes that have significant impact on customers that surround that batch hot cut. And they're not processes that Qwest is responsible for. They are processes from the NPAC, the national number forwarding organization, and they handle this sort of volume, and that's not a Qwest issue, but it is an issue for commissions because it's your customers in your states, our customers, everyone's customers, customers being won back, that will be impacted if the number isn't forwarded properly. * * * We've got the issue, can the PSAP handle the large number of locks and unlocks and the vendors that deal with the PSAPs. I don't know how to ask that question because those PSAPs are many, but there's a direct impact to customers. So we have to view the batch hot cut process as a piece of a

1215 listings were left out of the phone books, inserted into incorrect locations in the phone
1216 books, or containing incorrect customer information. Again, the sheer volume of
1217 directory changes to be processed if UNE-L were to become a viable mass-market
1218 service delivery method could have significant impacts on the directory publishing and
1219 operator services databases.

1220 **Q. DOES MCI HAVE A PROPOSED RESOLUTION TO THIS ISSUE?**

1221 A. MCI recommends that “migrate as is” functionality for directory listings be
1222 available to CLEC-to-CLEC migrations as well as in ILEC-to-CLEC migrations to limit
1223 the number of times that this information must be added and deleted.

1224 **Q. ARE THERE ISSUES WITH LIDB AND CNAM?**

1225 A. Yes. The Line Information Database (“LIDB”) and Caller Name (“CNAM”)
1226 databases provide information on caller identity and blocking options. UNE-P customers
1227 today use the LIDB and CNAM databases provided by Qwest. Unless a customer of the
1228 CLEC chooses new blocking options, no changes are required to the data when a
1229 customer migrates. Today, when a customer migrates a telephone number to a new
1230 carrier, the losing company deletes the telephone number’s LIDB/CNAM information
1231 from its LIDB/CNAM database and the acquiring carrier loads the telephone number’s
1232 LIDB/CNAM information internally.⁴⁶

1233 LIDB and CNAM are essential databases. Customer information for migrating
1234 customers whose LIDB and CNAM is not loaded or incorrect will not be available for

whole. * * * I don't want to develop the best batch hot cut process in the world where the customer at the end still can't get phone calls.

⁴⁶ MCI, as the acquiring carrier loads the data internally and at its LIDB/CNAM vendor, VeriSign.

1235 caller name display on caller id, potentially leading to call blocking by the called party
1236 and improper rejection of third-party billed calls.

1237 With UNE-L, both LIDB and CNAM data must be reloaded because the losing
1238 LEC will delete the information from their LIDB and CNAM processes. The
1239 LIDB/CNAM data entry step is performed while the order is in order entry. CLECs must
1240 either create CNAM data from published sources (which results in a substandard database
1241 because not all necessary data is available publicly) or dip Qwest's systems to receive the
1242 data at a per dip TELRIC rate in Washington. Under the *Triennial Review Order*, the
1243 database dips referred to above will no longer be at cost based pricing. CLECs should be
1244 allowed to obtain a download of Qwest's databases (at TELRIC rates) when using UNE-
1245 L in order to ensure that there is consistency of information and that callers are provided
1246 with the fully functional features that they require.

1247 Both vendors and Qwest need to examine the increase in data loads that they will
1248 have to handle to determine whether existing processes are sufficient. In addition,
1249 current processes for error checking and reject handling must be followed or new
1250 processes developed – issues that were never addressed with UNE-P because Qwest's
1251 systems were used.

1252 **Q. DOES MCI BELIEVE THAT ALL OF THESE CUSTOMER-IMPACTING**
1253 **ISSUES WOULD HAVE A SIGNIFICANT EFFECT ON CUSTOMERS IN**
1254 **A UNE-L WORLD?**

1255 A. Yes. All of these customer record/information changes must take place as
1256 efficiently and seamlessly as possible in a UNE-L environment. It is critical that these
1257 various orders and transfers of information be coordinated to the greatest extent possible
1258 throughout the various systems and processes of each provider, and between providers.

1259 A lack of coordination could result in errors in the customer records, the loss of customer
1260 data and loss of dial tone.

1261 **IX. QWEST’S BATCH HOT CUT PROCESS**

1262 **Q. WHAT IS THE “BATCH” HOT CUT PROCESS AND WHAT IS ITS**
1263 **PURPOSE?**

1264 A. In an effort to alleviate some of the operational barriers to UNE-L recognized by
1265 the FCC, the *Triennial Review Order* requires that the states approve a batch hot cut
1266 process (“Transition Batch Hot Cut Process”) to transition UNE-P customers to UNE-L
1267 by cutting over unbundled loops in high volumes from Qwest to CLECs. *See, e.g., Order*
1268 ¶¶ 487-490. The FCC expected that such a process would enable groups of UNE-P
1269 customers to be transitioned to UNE-L simultaneously in batches, thus “result[ing] in
1270 efficiencies associated with performing tasks once for multiple lines that would otherwise
1271 have been performed on a line-by-line basis.” *Order* ¶ 489. Yet although the FCC
1272 recognized that such “a seamless, low-cost batch cut process for switching mass market
1273 customers from one carrier to another is necessary, at a minimum, for carriers to compete
1274 effectively in the mass market,” it did not view this transitioning process as a panacea.
1275 *See, e.g., Order* ¶¶ 423, 487 (describing the batch process as mitigating, not necessarily
1276 eliminating impairment). Indeed, because this Transition Batch Hot Cut Process only
1277 addresses the issue of transitioning to UNE-L the base of customers that competitors like
1278 MCI have acquired on UNE-P, it is merely a discrete piece of the much larger puzzle that
1279 must be assembled before UNE-L can be seen as a viable service delivery method. In
1280 practical terms, eliminating the operational barriers associated with the every day hot cut
1281 process (“Mass Market Hot Cut Process”) – which will be used to move customers to and

1282 from multiple carriers in a dynamic competitive market – is far more critical than
1283 implementing a Transition Batch Hot Cut Process that is only useful for simultaneously
1284 moving batches of UNE-P customers to UNE-L.

1285 **Q. DOES MCI HAVE ANY CONCERNS AT THIS TIME ABOUT HOW**
1286 **QWEST IS ADDRESSING BATCH HOT CUTS?**

1287 With the Commission’s approval, Qwest, CLECs, and other interested parties are
1288 participating in a Batch Hot Cut Forum to address the batch hot cut process proposal filed
1289 by Qwest. MCI is participating in the forum and is initially generally concerned about
1290 the following in Qwest's proposed process because the process:

- 1291 1. Limits "batch" orders to 100 lines per day, per central office for all
1292 CLECs;
- 1293 2. Requires a minimum of 25 lines (adjusted downward to 20 for fallout) and
1294 requires up front negotiation,
- 1295 3. Assigns due dates through negotiation, in contrast to the current "basic"
1296 (uncoordinated, frame due time) process which has a five business day interval;
- 1297 4. Eliminates pre-wiring that is currently done two days prior to the due date
1298 and dial tone testing, completeing those critical procedures on the due date instead;
- 1299 5. Requires the CLEC to correct a no dial tone situation or CFA mismatch
1300 within one hour or the order would be canceled; and
- 1301 6. Is only available for “basic” loops, not ILDC,⁴⁷ DSL, or line split loops.

⁴⁷ See Batch Hot Cut Forum Transcript, December 1, 2003, at p. 144, L. 12 to 16, where it is stated:

MR. PAPPAS [Qwest witness]: This is Dennis Pappas again. For the process as it sits proposed today, IDLC is not part of the batch hot cut process.

1325 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

1326 **A.** Yes, it does.