# BEORE THE WASHINGTON STATE UTILTIES AND TRANSPORTATION COMMISSION

In The Matter Of

Level 3 Communications, LLC'S Petition for Arbitration Pursuant to Section 252(B) of the Communications Act of 1934, as Amended by The Telecommunications Act Of 1996, and the Applicable State Laws for Rates, Terms, and Conditions of Interconnection with Qwest Corporation **DOCKET NO. UT-063006** 

## **REPLY TESTIMONY OF**

### **DR. WILLIAM FITZSIMMONS**

#### **ON BEHALF OF**

### **QWEST CORPORATION**

**SEPTEMBER 15, 2006** 

1		I. INTRODUCTION AND PURPOSE OF TESTIMONY
2	Q.	PLEASE STATE YOUR NAME AND POSITION.
3	A.	My name is William Fitzsimmons. I am a Director at LECG, LLC; my business
4		address is 2000 Powell Street, Suite 600, Emeryville, CA 94608.
5		
6	Q.	ARE YOU THE SAME WILLIAM FITZSIMMONS WHO FILED DIRECT
7		TESTIMONY IN THIS PROCEEDING?
8	A.	Yes.
9		
10	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
11	A.	The purpose of this testimony is to respond to statements by Level 3 witness Mack D.
12		Greene.
13 14	Q.	II. LEVEL 3 IMPOSES COSTS IT SEEKS TO AVOID WHAT IS YOUR BASIC CONCERN REGARDING MR. GREENE'S
15		TESTIMONY?
16	A.	My basic concern with Mr. Greene's testimony is with his claim that Level 3 need not
17		compensate Qwest for the costs associated with traffic that Level 3 delivers to non-
18		local ISPs. Dial-up Internet access represents a significant portion of traffic across
19		Qwest's network and causes a significant portion of Qwest's traffic sensitive costs. It
20		is understandable that Level 3 is opposed to a change that will force it to bear
21		responsibility for costs that it causes. As observed by the FCC:
22 23		"[G]iven the opportunity, carriers always will prefer to recover their costs from other carriers rather than their own end-users

1 2		in order to gain competitive advantage. Thus carriers have every incentive to compete, not on basis of quality and
3		efficiency, but on the basis of their ability to shift costs to
4		other carriers, a troubling distortion that prevents market
5		forces from distributing limited investment resources to their
6		most efficient uses.
7		We believe that this situation is particularly acute in the case
8		of carriers delivering traffic to ISPs because these customers
9		generate extremely high traffic volumes that are entirely one-
10		directional."
11		From the perspective of cost recovery, costs associated with non-local traffic are
12		distinct from costs associated with local traffic. Specifically, Qwest's local service
13		prices are not designed to recover costs associated with non-local traffic. Qwest
14		recovers costs associated with non-local traffic from non-local services, including
15		revenues from transport and switched access services. Traffic between different local
16		calling areas is <u>not</u> local traffic.
17		
18	Q.	DOES MR. GREENE MAKE THE IMPLICIT ASSUMPTION THAT
19		QWEST'S LOCAL SERVICE PRICES ARE DESIGNED TO COMPENSATE
20		<b>QWEST FOR SWITCHING ALL INTERNET TRAFFIC?</b>
21	A.	Yes. Mr. Greene states that "customers are paying for local calling area service
22		from Qwest. If Level 3 picks up traffic within the local calling area, there is no
23		additional cost imposed upon Qwest because the call simply leaves their network in
		that LCA." [Greene Direct, pp. 18-19] The assumption embodied in these statements

<sup>&</sup>lt;sup>1</sup> Order on Remand and Report and Order, *In the Matter of Implementation of the Local Competition Provisions in the Telecommunications Act of 1996, and Intercarrier Compensation for ISP-Bound Traffic, CC Docket Nos.* 96-98, 99-68, ¶¶ 4-5 (FCC. 2001) (*hereafter "ISP Remand Order"*).

is that local service prices are designed to compensate Qwest for all switched traffic 1 2 that other service providers pick up in the local calling area. This is false. 3 Q. **ARE QWEST'S LOCAL SERVICE PRICES DESIGNED TO COMPENSATE** 4 5 **QWEST FOR ALL SWITCHED TRAFFIC THAT IS PICKED UP IN THE** LOCAL CALLING AREA? 6 No. Based upon the fact that switching costs are caused by the different categories of 7 A. traffic that use switching, only a portion of switching costs are designated for recovery 8 in prices for local services. That is, local service prices are designed to recover the 9 10 portion of switching costs attributed to local traffic. Local service prices are not designed to recover the portion of switching costs attributed to non-local calls. Firms 11 that use Qwest's switches to provide interexchange calls are responsible for 12 13 contributing to the recovery of a distinct portion of switching costs. As observed by Level 3 in its comments to the FCC: "the interexchange carrier is left to recover its 14 costs for originating and terminating the call from its customers."<sup>2</sup> Contrary to Mr. 15 16 Greene's claims, no matter where an interexchange carrier picks up traffic, it is responsible for switching costs associated with this traffic. 17 18

#### 0. HAS THE RAPID RISE OF INTERNET ACCESS MADE THE 19

20

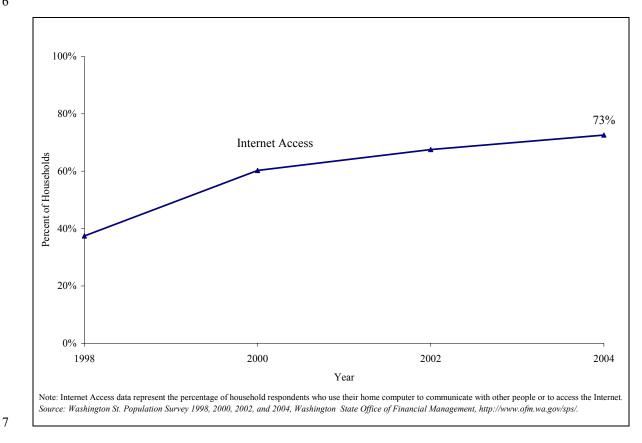
# **CLASSIFICATION OF THIS TRAFFIC AN IMPORTANT ISSUE?**

Comments of Level 3 Communications, LLC, In the Matter of Developing a Unified Intercarrier Compensation Regime, CC Docket No. 01-92, (FCC August 21, 2001), p. 10.

A. Yes. The rapid rise of Internet access rivals the wireless phone revolution as the most
 dramatic change in communications over the last ten years. As shown in Figure 1, the
 portion of the households in Washington connected to the Internet nearly doubled from
 37 percent in 1998 to 73 percent in 2004.



### Figure 1. Percent of Households in Washington with Internet Access



8 As shown, by 2004 the majority of households in Washington already had Internet access.

Although over half of Internet households in Qwest's service territory in Washington
 now use broadband connections to access the Internet, dial-up traffic remains
 substantial.<sup>3</sup>

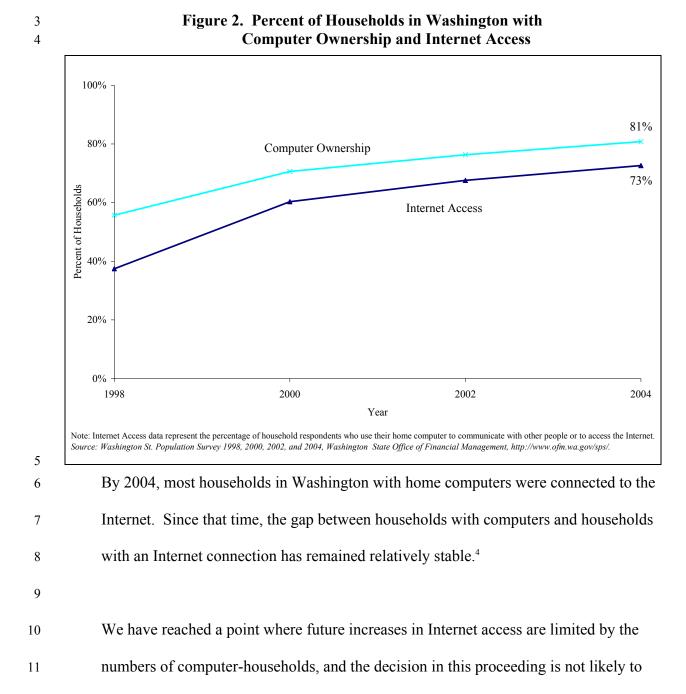
<sup>&</sup>lt;sup>3</sup> According to a recent survey, approximately three-quarters of the households in Qwest's service area in Washington have Internet access. "Internet Access Method Penetration: Qwest Footprint - Washington," TNS

1	Q.	WOULD ALLOWING LEVEL 3 TO AVOID SWITCHING AND TRANSPORT
2		COSTS DISCRIMINATE AGAINST QWEST?
3	A.	Yes. Allowing Level 3 to avoid switching and transport costs discriminates against
4		Qwest. As Mr. Greene acknowledges, Qwest Corporation (QC) and Qwest
5		Communications Corporation (QCC) are "both wholly-owned subsidiaries of Qwest
6		Communications International, which is the publicly traded entity." [Greene Direct, p.
7		14] This combined entity incurs the full cost of investing, operating and maintaining
8		switching and transport for local and non-local calls. Albeit in an imperfect manner
9		governed by regulation, Qwest is left to recover the local portion of these costs from
10		local services and the non-local portion from non-local services.
11		
12	Q.	WHAT IMPLICATIONS DOES THIS HAVE ON COMPARING THE COSTS
13		THAT QWEST INCURS VERSUS THE COSTS THAT LEVEL 3 BELIEVES
14		IT SHOULD INCUR?
15	A.	Mr. Greene points out that QCC provides connections to ISPs in much the same way
16		as Level 3. He ignores the fact, however, that when Qwest provides service to an ISP,
17		the "publicly traded entity" described by Mr. Greene incurs the full cost of originating,
18		transporting and terminating the calls from the ISPs' end users. As a firm subject to
19		regulatory oversight, Qwest cannot ignore these costs in the prices that it charges the
20		ISPs that it serves.
21		

1	In contrast, under Level 3's proposal in this proceeding, it would not pay for
2	originating calls, and it would receive payment from Qwest for terminating calls, even
3	though ISPs served by Level 3 (and ultimately their end user customers) cause these
4	costs. Since it would avoid responsibility for these costs, Level 3 would presumably
5	not include them in the prices that it charges ISPs. As explained in my direct
6	testimony:
7 8 9 10 11 12 13 14 15 16 17 18	The proper chain of payments is determined by the chain of cost, but in reverse – back to the cost causer. Level 3 causes Qwest to incur costs in switching and transporting the traffic to Level 3, so Level 3 should compensate Qwest. The ISP causes Level 3 to incur costs, so the ISP should compensate Level 3. The end user customers of the ISP cause the ISP to incur costs, so the end users should compensate the ISP. In this way, every entity is responsible for the costs that it causes, and every entity can properly weigh its costs against the expected benefits or revenues that it expects to receive. As stated above, this leads to an efficient use of resources. [p. 11]
19	If Level 3 can convince this Commission to force Qwest to assume responsibility for
20	switching costs, Level 3 can sidestep costs that it causes, and the chain of payments
21	that forces the responsibility of costs back to the cost causers will be broken. If this
22	occurs, Qwest will face costs that it does not cause, and the power of cost causation to
23	produce efficient decisions will be lost.
24	The fallacy in Mr. Greene's argument is illustrated by Table 1 in Mr. Greene's
25	testimony, which compares the network components used by Level 3 and Qwest. That
26	chart ignores switching and some transport provided by Qwest prior to the point of
27	interconnection with Level 3. Both QCC and Level 3 use this switching and transport
28	for dial-up Internet traffic, and, from the perspective of creating an efficient and

1		equitable economic environment, it is appropriate that each take responsibility for
2		recovering the costs related to the use of these assets from its ISP customers. It is my
3		understanding that QCC pays retail prices for the assets that it uses and charges its ISP
4		customers prices that include the recovery of these payments. Level 3, however, wants
5		the Commission to require Qwest to: (1) provide these assets free of charge; and (2)
6		compensate Level 3 for terminating traffic (even though Qwest does not have the
7		business relationship with Level 3's ISP customers). Level 3's proposal is inefficient,
8		inequitable, and contrary to the economic underpinnings of the ISP Remand Order.
9		
10 11		III. THE FUTURE OF INTERNET ACCESS IN WASHINGTON DOES NOT DEPEND UPON LEVEL 3 AVOIDING COSTS
12	Q.	DOES THE FUTURE OF INTERNET ACCESS IN WASHINGTON DEPEND
	Q.	DOES THE FUTURE OF INTERNET ACCESS IN WASHINGTON DEPEND ON LEVEL 3'S SUCCESS IN THIS PROCEEDING?
13	<b>Q.</b> A.	
13 14	-	ON LEVEL 3'S SUCCESS IN THIS PROCEEDING?
13 14 15	-	<b>ON LEVEL 3'S SUCCESS IN THIS PROCEEDING?</b> No. Mr. Greene overreaches when he portrays Level 3 as critical to the past
13 14 15 16	-	ON LEVEL 3'S SUCCESS IN THIS PROCEEDING? No. Mr. Greene overreaches when he portrays Level 3 as critical to the past development and future success of the Internet. [Greene Direct, pp. 3-5] Level 3
13 14 15 16 17	-	ON LEVEL 3'S SUCCESS IN THIS PROCEEDING? No. Mr. Greene overreaches when he portrays Level 3 as critical to the past development and future success of the Internet. [Greene Direct, pp. 3-5] Level 3 cannot take credit for the dramatic adoption of the Internet over the last decade, and
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> </ol>	-	ON LEVEL 3'S SUCCESS IN THIS PROCEEDING? No. Mr. Greene overreaches when he portrays Level 3 as critical to the past development and future success of the Internet. [Greene Direct, pp. 3-5] Level 3 cannot take credit for the dramatic adoption of the Internet over the last decade, and the continued use and proliferation of dial-up Internet access does not depend upon
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> </ol>	-	ON LEVEL 3'S SUCCESS IN THIS PROCEEDING? No. Mr. Greene overreaches when he portrays Level 3 as critical to the past development and future success of the Internet. [Greene Direct, pp. 3-5] Level 3 cannot take credit for the dramatic adoption of the Internet over the last decade, and the continued use and proliferation of dial-up Internet access does not depend upon
12 13 14 15 16 17 18 19 20 21	A.	ON LEVEL 3'S SUCCESS IN THIS PROCEEDING? No. Mr. Greene overreaches when he portrays Level 3 as critical to the past development and future success of the Internet. [Greene Direct, pp. 3-5] Level 3 cannot take credit for the dramatic adoption of the Internet over the last decade, and the continued use and proliferation of dial-up Internet access does not depend upon allowing Level 3 to avoid costs that it causes.

1 demonstrated in Figure 2, which shows the relative household penetrations of Internet

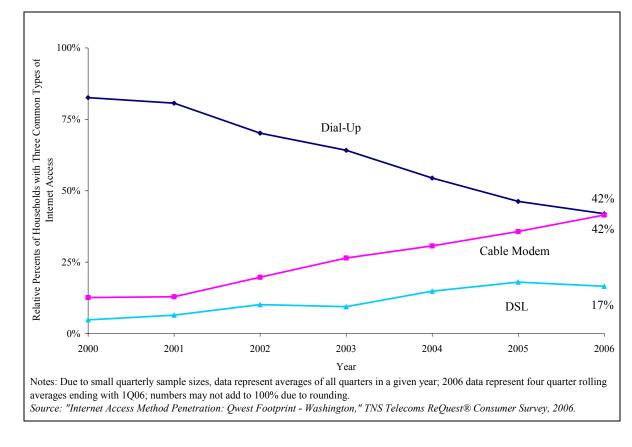


<sup>2</sup> access and home computers.

<sup>&</sup>lt;sup>4</sup> More recent TNS research reveals that the gap between household computer ownership and Internet access has remained relatively unchanged. *See* "Internet Access Method Penetration: Qwest Footprint - Washington," TNS Telecoms ReQuest® Consumer Survey, 2006.

1		have a material impact on the numbers of households with computers. It may,
2		however, have an impact on the continued development of efficient and beneficial
3		telecommunications markets in Washington.
4		
5	Q.	WHAT IS THE CURRENT TREND IN INTERNET ACCESS?
6	A.	As shown above in Figures 2 and 3, although the penetration of Internet access has
7		approached the level of computer ownership for households, there is a strong trend for
8		the replacement of dial-up connections with broadband connections. This natural
9		progression is supported by our national telecommunications policy. As described by
10		FCC Chairman Kevin Martin:
11 12 13 14 15 16 17 18 19		"Creating a policy that speeds the deployment of broadband throughout the U.S. is my highest priority as the new chairman of the FCCMost Americans today can choose between several competing broadband service providers and service packagesThese proliferating service providers are increasingly competing with each other, and that holds down prices, increases consumer choice, and creates a vast array of services." <sup>5</sup>
20		In Washington and across the nation, the portion of Internet-households using
21		broadband connections continues to rise. As shown in Figure 3, in the first quarter of
22		this year, over one-half of the Internet households in Qwest's service area in
23		Washington were already using broadband connections.
24		

<sup>&</sup>lt;sup>5</sup> "Broadband," Martin, Kevin, Wall Street Journal, July 7, 2005.





1

To summarize, Level 3 is not responsible for the dramatic growth of Internet access, 4 and the future of Internet access in Washington does not depend upon allowing 5 Level 3 to avoid paying for the costs it causes. It is my understanding that Level 3 did 6 not even serve Qwest with a request to negotiate an interconnection agreement in 7 8 Washington until 1999. By that time the rapid adoption of Internet access was well underway, and approximately 40 percent of the households in Washington already had 9 access. Since then, broadband has overtaken dial-up as the predominant form of 10 11 access to the Internet.

12

<sup>2</sup> 3

7	Q.	DOES THIS CONCLUDE YOUR TESTIMONY?
6		
5		is in the best long term interest of the citizens of Washington.
4		they use and the costs that they cause. Requiring Level 3 to pay for the costs it causes
3		wireless, and others. Efficient competition occurs when firms pay for the assets that
2		among firms using a range of technologies, including wireline, cable-based assets,
1		The future of Internet access depends upon policies that promote efficient competition

8 A. Yes.