Acquisition of T-Mobile USA, Inc. by AT&T Inc.

Description of Transaction, Public Interest Showing and Related Demonstrations

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Description of Transaction,

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INTRODUCTION AND SUMMARY

In this transaction, AT&T Inc.—an American company on the leading edge of mobile broadband innovation—is acquiring T-Mobile USA, a Deutsche Telekom subsidiary with declining market shares and no clear path to Long Term Evolution (LTE), the gold standard for advanced mobile broadband services.

AT&T faces network spectrum and capacity constraints more severe than those of any other wireless provider, and this merger provides by far the surest, fastest, and most efficient solution to that challenge. The network synergies of this transaction will free up new capacity—the functional equivalent of new spectrum—in the many urban, suburban, and rural wireless markets where escalating broadband usage is fast consuming existing capacity. This transaction will thus benefit consumers by reducing the number of dropped and blocked calls, increasing data speeds, and dramatically expanding deployment of next-generation mobile technology. Indeed, the transaction will give the combined company the scale, resources, and spectrum that will enable it to deploy LTE to more than 97 percent of Americans—approximately 55 million more Americans than under AT&T’s current plans. That deployment will help fulfill this Administration’s pledge to “connect[] every part of America to the digital age,” and it will create new jobs and economic growth in the small towns and rural communities that need them most. This transaction will leave the wireless marketplace fiercely competitive; indeed, AT&T’s massive LTE deployment will intensify broadband competition throughout the United States. Finally, the transaction will promote America’s global leadership in mobile broadband innovation.

AT&T has helped lead America’s mobile broadband revolution for many years, achieving network-technology breakthroughs at AT&T Labs and then pioneering their deployment to consumers. AT&T introduced the first widely adopted smartphone—Apple’s iPhone—in 2007. It now offers a wide-ranging portfolio of mobile broadband devices, including the second-generation iPad and other tablet computers; a variety of netbooks, eReaders, and machine-to-machine (M2M) offerings; and a host of smartphones running on different operating systems, such as Google’s Android, Microsoft’s Windows, Apple’s iOS, and RIM’s Blackberry, among others. According to a leading market research firm, AT&T’s subscribers owned more than [Begin Confidential Information] percent of the nation’s smartphones at the end of 2010, by far the highest percentage among all U.S. wireless providers. AT&T’s pioneering initiatives have helped convert mobile broadband from a niche product into a transformative engine of innovation, growth, and consumer empowerment. And they have helped make the United States the global leader in mobile broadband subscriptions and smartphone sales.

AT&T’s mobile broadband leadership, however, now presents it with unique spectrum and capacity challenges. A smartphone generates 24 times the mobile data traffic of a conventional wireless phone, and the explosively popular iPad and similar tablet devices can generate traffic comparable to or even greater than a smartphone. AT&T’s mobile data volumes thus surged by a staggering 8000% from 2007 to 2010:

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AT&T has worked tirelessly to address this data explosion through a wide variety of means. For example, it has purchased spectrum on the open market when available and has added thousands of cell sites and additional backhaul capacity to its network grid. AT&T has also deployed distributed antenna systems, 24,000 Wi-Fi hotspots across the country, and Wi-Fi Hotzones in heavy usage areas—such as Chicago’s Wrigleyville, New York’s Times Square, and others—to off-load traffic from its mobile network. All told, AT&T invested $21.1 billion in capital expenditures to upgrade its wireless network between 2008 and 2010.

These types of measures, however, are increasingly inadequate solutions to AT&T’s growing capacity constraints. AT&T is using up its spectrum at an accelerating rate, and the wireless broadband revolution is just beginning. Over the next five years, data usage on AT&T’s network is projected to skyrocket by a factor of eight to ten as customers “mobilize” all of their communications activities, from streaming HD video and cloud computing to a range of M2M applications like energy management, fleet tracking, and remote health monitoring:
Put differently, in just the first five to seven weeks of 2015, AT&T expects to carry all of the mobile traffic volume it carried during 2010.

In short, AT&T faces severe capacity constraints and cannot simply wait for the next major auction to resolve them. For example, AT&T expects that, by [Begin Confidential Information] [End Confidential Information], it would have insufficient capacity to handle the expected traffic demand for its UMTS services in approximately [Begin Confidential Information] [End Confidential Information] cellular market areas (“CMAs”) covering [Begin Confidential Information] [End Confidential Information] people.4 These include large cities such as [Begin Confidential Information] [End Confidential Information], as well as smaller towns and rural areas such as [Begin Confidential Information] [End Confidential Information].

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4 As discussed below, Universal Mobile Telephone System (“UMTS”) is a wireless technology that supports both voice and mobile broadband services; Global System for Mobile (“GSM”) is an earlier second-generation technology.
In [Begin Confidential Information] [End Confidential Information] additional markets, AT&T does not have enough spectrum today even to launch and support UMTS service, and thus it can offer only 2G GSM service to the more than [Begin Confidential Information] [End Confidential Information] people in those markets. In many markets where T-Mobile USA has spectrum, AT&T’s capacity constraints also prevent it from dedicating enough spectrum to launch LTE, deploy it optimally, or meet expected demand. For example, in approximately [Begin Confidential Information] [End Confidential Information] CMAs covering about [Begin Confidential Information] [End Confidential Information] people, AT&T lacks spectrum to deploy LTE at all. Within another approximately [Begin Confidential Information] [End Confidential Information] CMAs, covering nearly [Begin Confidential Information] [End Confidential Information] people in large cities and small towns alike, AT&T cannot deploy LTE with the contiguous 20 MHz of spectrum needed for improved speed and spectral efficiency. And AT&T estimates that it is likely to face LTE capacity constraints as early as [Begin Confidential Information] [End Confidential Information] in certain major markets.

T-Mobile USA likewise faces capacity constraints in a number of key markets. It also has no clear path to deploy LTE services because it has already dedicated its spectrum resources to today’s less spectrally efficient technologies. T-Mobile USA also faces new questions about its long-term capital support, in part because its parent company, Deutsche Telekom, must dedicate significant capital resources to broadband deployment in Germany and the rest of Europe. Indeed, Deutsche Telekom recently announced that, in light of its capital constraints, T-
Mobile USA can no longer rely on its parent for investment funding and must instead “fund its future itself.”

From a consumer’s perspective, the capacity constraints confronting these companies, if unaddressed, would translate into more dropped and blocked calls, slower speeds, and access to fewer and less advanced applications. More generally, these capacity constraints could hinder innovation in America’s mobile broadband ecosystem. As Chairman Genachowski has observed, “[i]f we do nothing in the face of the looming spectrum crunch, many consumers will face higher prices—as the market is forced to respond to supply and demand—and frustrating service—connections that drop, apps that run unreliably or too slowly. The result will be downward pressure on consumer use of wireless service, and a slowing down of innovation and investment in the space.” These consumer harms, moreover, “would . . . have a disproportionate impact on minority and low-income groups who are more likely than the average American to access the Internet through a mobile device.” “[T]he only thing that can address the growing overall demand for mobile,” the Chairman more recently added, “is increasing the overall supply of spectrum and the efficiency of its use.”

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7 Id.

This transaction helps meet that national objective. Although it will not literally increase “the overall supply of spectrum,” it will dramatically increase the efficiency of its use, and those efficiency gains are the functional equivalent of creating new spectrum. In this manner, the transaction will provide by far the fastest, most efficient, and most certain solution to each applicant’s capacity challenges, while creating significant benefits for consumers and the marketplace as a whole. It will improve service quality and create a robust, ubiquitous, and state-of-the-art wireless broadband platform. It will enable the combined company to compete far more effectively than either company could alone, while fueling the wireless broadband revolution at the heart of this Administration’s goals.

These benefits arise from the uniquely complementary nature of AT&T and T-Mobile USA. Unlike other major U.S. wireless providers, AT&T and T-Mobile USA both use GSM and UMTS/HSPA+ technologies. Their common use of those technologies, together with their complementary spectrum holdings and well-matched cell-site grids, will produce immense synergies. As a result of these synergies, the integration of these two networks will far exceed the sum of its parts, creating substantially more capacity than the two companies could produce individually.

This increased capacity will give the combined company the flexibility it needs, on a market-by-market basis, to improve service quality, free up spectrum for more spectrally efficient technologies such as LTE, or both. These benefits could not be obtained nearly as fully or quickly through any alternative to this transaction. These transaction-specific benefits include:

- **Efficiencies from unique cell-site complementarities.** The combined company expects to integrate more than [Begin Confidential Information] T-Mobile USA cell sites into the AT&T network. Upon network
integration, this will equate to “instant” cell splits—increasing cell density and effectively
doubling the amount of network traffic that can be carried using existing spectrum in the
areas served by those cell sites. This network integration will start immediately after
closing, can be targeted initially to areas with the greatest capacity needs, and is expected
to be completed within twenty-four months, with service improvements in areas of
various markets in as little as nine months. AT&T could accomplish nothing comparable
absent this merger. In practical terms, the integration of these two infrastructures will
mean fewer dropped and blocked calls and a better mobile Internet experience for
consumers.

• **Repurposing of Redundant Control Channels.** Each company now devotes substantial
  spectrum to “control channels” for its GSM services. The transaction will enable the
  combined company to eliminate redundant control channels and promptly free up 4.8 to
  10 MHz of extra spectrum, depending on the market.

• **Channel Pooling Efficiencies.** This transaction will enable the two networks to group
  their respective GSM spectrum channels into larger pools (as well as the UMTS spectrum
  channels as they are integrated over time). Because larger pools increase the statistical
  probability of obtaining an open channel, the transaction will enable the combined
  network to serve more subscriber traffic with the same aggregate spectrum than the two
  could serve independently. By analogy, an airport can serve more customers more
  quickly if it creates one ticket counter with four ticket agents rather than two counters
  with two agents apiece. This efficiency alone is expected to increase GSM capacity by as
  much as 15 percent in some areas and, among other benefits, will reduce the number of
  blocked calls.

• **Utilization Efficiencies.** The combined company will be able to make more efficient use
  of “spare” capacity in areas where one or both companies’ networks are underutilized,
  driving improvements in both performance and capacity in those areas. For example, if
  AT&T’s GSM network is congested in a market, while T-Mobile USA’s is underutilized,
  the combined company could use spectrum in the underutilized network to relieve that
  congestion. Alternatively, if AT&T is facing congestion in its UMTS network but not its
  GSM network, then a portion of T-Mobile USA’s GSM spectrum could be redeployed to
  relieve that congestion and provide for more spectrally efficient UMTS services.

• **Broader deployment of more spectrally efficient LTE technologies.** The transaction will
  accelerate the transition to more spectrally efficient LTE technologies for more
  subscribers, thereby increasing network capacity and more efficiently using scarce
  spectrum resources. Over time, the transaction will enable the combined company to
  transition T-Mobile USA’s HSPA services off of its AWS spectrum in many markets and
  devote that spectrum to the deployment of LTE services that are 30 to 40 percent more
  spectrally efficient. In addition, T-Mobile USA’s AWS spectrum covers approximately
  additional people in areas where AT&T lacks sufficient 700 MHz or AWS spectrum to

[Begin Confidential Information] [End Confidential Information]
deploy LTE, allowing the combined company to roll out that technology more broadly than AT&T could alone.

AT&T estimates that these efficiencies, in combination, will push back the date of expected spectrum exhaust in many markets, particularly in its constrained markets. With this additional time, the company expects to be able to address continuing capacity needs through the ramping down of GSM networks, the fuller deployment of efficient, capacity-increasing LTE technologies, and new spectrum available at auction. More generally, the consolidation of these two companies is projected to produce operational savings and other cost synergies exceeding $39 billion, with annual savings of approximately $3 billion starting in year three.

All of these efficiencies will benefit both companies’ current and future customers. For example, by alleviating capacity constraints, this transaction will enable AT&T to enhance service quality for its GSM and UMTS customers, reducing the number of blocked and dropped calls, increasing data speeds, and providing more consistent and reliable service. Moreover, this transaction will give AT&T the capacity it needs to serve more customers in more markets with UMTS and fully optimized LTE than it would otherwise. This transaction will also give T-Mobile USA’s 34 million customers access to LTE services that will surpass T-Mobile USA’s current services in performance and network efficiency. In addition, T-Mobile USA’s customers will have greatly expanded in-home and rural coverage and rapid access to a broader device portfolio. And, as in AT&T’s prior acquisitions, consumers will have the option to keep their current T-Mobile USA pricing plans for existing services.

In short, this transaction is the most pro-consumer solution to the critical capacity challenges facing these two companies. It is also the most pro-innovation and pro-investment solution for America. The network and spectrum synergies unleashed by this transaction will
enable AT&T to continue fostering wireless innovation and supporting the virtuous cycle of investment and innovation needed to fuel advances in the mobile broadband ecosystem. And this transaction gives AT&T the scale, spectrum and resources that will enable it to deploy LTE to more than 97 percent of Americans, many of them in the rural areas and small towns most in need of greater broadband deployment and economic development.9

The long-term benefits of such infrastructure investment are immense. As Lawrence Summers, then head of the President’s National Economic Council, explained in 2010, “[e]ach dollar invested in wireless deployment is estimated to result in as much as $7 to $10 higher GDP,” and as wireless investment grows, “the benefits for job creation and job improvement are likely to be substantial.”10 In addition, because AT&T is the only major wireless company that is unionized, this transaction will bring jobs with union wages and benefits.11 And the expansion of LTE’s state-of-the-art broadband performance will help fill gaps in the availability of cutting-edge medical, education, and other services in rural areas and small towns. Because this transaction will produce these larger social benefits, groups from across the political spectrum,

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9 When the parties announced this transaction in March 2011, AT&T initially stated that it would deploy LTE to 95 percent of the U.S. population. AT&T has now conducted a more refined analysis of the scope and capabilities of the combined network and identified T-Mobile USA and AT&T cell sites that it had not previously counted on for LTE expansion, but that will allow the expansion of LTE into areas not previously included. The parties are thus now increasing the scope of this commitment to more than 97.3%.


11 AT&T remains the only large wireless company in the U.S. with a voluntary recognition and card check agreement, which allows eligible employees to choose whether to be represented by the CWA. AT&T remains neutral in organizing drives and voluntarily recognizes the CWA when a majority of workers sign union authorization cards. Under this process, CWA has now organized more than 41,000 AT&T Mobility employees, including those following mergers with AT&T Wireless, BellSouth, Dobson, and Centennial.
including the Communications Workers of America, the AFL-CIO, the NAACP, the Hispanic Institute, the American Foundation for the Blind, and a broad range of other consumer, civil rights, and rural advocacy groups, have highlighted the transaction’s potential to empower consumers, workers, and small businesses to participate more fully in our nation’s broadband society.

As discussed in Section II below, this transaction will also preserve and, indeed, enhance competition. The Commission found last year that approximately three-quarters of Americans live in localities contested by at least five facilities-based wireless providers.\(^{12}\) And the U.S. wireless marketplace is characterized by escalating usage, product differentiation, rapid innovation, fierce advertising campaigns, new entry, and sharply declining prices for wireless service by unit of consumption (e.g., minutes or megabytes). It will remain every bit as dynamic and competitive after this transaction as before. Indeed, the wireless marketplace will be more competitive because this transaction will expand overall output and relieve both AT&T and T-Mobile USA of capacity constraints that, absent this transaction, would reduce their competitive impact. Moreover, because the transaction will enable AT&T to deploy next-generation LTE services to more than 97 percent of Americans, it will give many more consumers a new, robust alternative to wireline broadband services across America.

Post-merger, the combined company will continue to face intense competition from the following providers, among others:

- **Verizon Wireless**, now the largest U.S. wireless provider, occupies an exceptionally strong position in all market segments, and it claims unequaled network advantages in the

provision of high-end LTE services over its nationwide 22 MHz block of 700 MHz spectrum.

- **Sprint** has reversed its earlier setbacks, added nearly 1.8 million net subscribers in 2010 (for a total of approximately 50 million), and is aggressively implementing Network Vision, a multi-billion-dollar initiative to upgrade its network to supplement existing 4G services. Sprint has already achieved substantial 4G success by offering attractive pricing plans and upgrading its smartphone portfolio with models like the highly successful EVO.

- **MetroPCS** and **Leap** (“Cricket”)—the leading “all you can eat” providers—have signed a long-term mutual roaming agreement, offer nationwide service plans, and now sell service in markets covering more than 200 million Americans. They are growing rapidly and will continue winning consumers with their low-priced service plans after this transaction closes.

- According to internal AT&T estimates, MetroPCS has won approximately [Begin Confidential Information] of the Miami market and double-digit shares in other major cities, and its subscriber share now exceeds T-Mobile USA’s in a number of key markets, including [Begin Confidential Information] [End Confidential Information]. MetroPCS recently launched the nation’s first commercially available LTE smartphone for its new 4G LTE network, thereby targeting higher-end consumers in addition to its established base of value-conscious customers.

- Meanwhile, Leap added hundreds of thousands of new subscribers in 2010 and has achieved substantial shares in a number of metropolitan areas. Although it has long focused on value-oriented voice services, it too has branched out into broadband services, and smartphones now account for 40% of Leap’s handset sales. In March 2011, Leap expanded its LTE deployment plans by reaching a major spectrum arrangement with LightSquared.

- **U.S. Cellular** is a leading provider of nationwide service in 26 states and now has more than six million customers. According to AT&T’s estimates, U.S. Cellular has strong double-digit shares in many markets, including [Begin Confidential Information] [End Confidential Information].

- A number of other providers also offer nationwide wireless service plans with marked success. These include, among the others discussed below, **Cellular South**, which serves about 880,000 customers and plans to launch LTE service by the end of this year; **Cincinnati Bell Wireless**, which serves southwestern Ohio and [Begin Confidential Information] [End Confidential Information]; and **Cox Communications**, which has
begun aggressively marketing wireless plans to its existing cable subscribers in a growing number of markets.

- **Clearwire**, owned by a consortium of Sprint, Comcast, Time Warner Cable, Intel, Google, and Bright House Networks, is the nation’s largest holder of spectrum. Using spectrum in the 2.5-2.6 GHz bands, Clearwire is both a retailer of 4G data services (under the “Clear” brand), with more than a million retail customers, and a supplier of wholesale inputs to 4G WiMAX retail providers such as Sprint, Time Warner Cable, and Comcast. In March 2011, it signed a wholesale agreement with Best Buy, which will use Clearwire spectrum to offer its “Best Buy Connect” MVNO services at its retail stores throughout America. Clearwire is also conducting LTE trials, which, according to CTO John Saw, have yielded “mind blowing” results.\(^{13}\)

- **LightSquared**, a spectrum-rich and well-capitalized wireless entrant, plans to deploy a 4G LTE network covering 100 million people by the end of 2012 and 260 million by the end of 2015. It recently announced major wholesale arrangements with Best Buy, rural broadband provider Open Range, and Leap, which, as discussed, will use LightSquared spectrum to help roll out its LTE services.

T-Mobile USA’s network and spectrum resources will add substantial value to this highly competitive marketplace when they are combined with AT&T’s network and spectrum resources to produce the output-enhancing synergies discussed in this submission. As a standalone company, however, T-Mobile USA would continue to face substantial commercial and spectrum-related challenges. It confronts increased competition from industry mavericks such as MetroPCS, Leap, and others; its percentage of U.S. subscribers has been falling for nearly two years; and it has no clear path to LTE.

T-Mobile USA’s absence from the marketplace will not have a significant competitive impact, particularly vis-à-vis AT&T. AT&T is more focused on Verizon and Sprint than on T-Mobile USA, and AT&T too is seeing increased competitive threats from rapidly growing mavericks like MetroPCS and Leap and other providers. These other competitors can quickly replace the diminished market role T-Mobile USA plays today—and indeed have already begun

to do so. More generally, this transaction will promote the core objectives of sound competition policy by alleviating the applicants’ capacity constraints and thereby generating greater output and more competitive prices.

Finally, the Commission should view this transaction in its international context when assessing both its competitive significance and its importance to American innovation. As the Commission has observed, the U.S. wireless marketplace is substantially less concentrated than its counterparts in other industrialized nations.\textsuperscript{14} The Commission would disserve American consumers if it imposed artificial constraints on network scale and efficiency not seen elsewhere in the world, thereby ultimately consigning the U.S. marketplace to a collection of spectrum-starved providers. That outcome would risk degrading service for millions of American consumers, undermining the virtuous cycle of mobile broadband innovation, and imperiling U.S. technological leadership.

In sum, this transaction will be good for consumers, for workers, for the economy, and for the companies involved. It is needed to alleviate serious capacity challenges on the two parties’ networks; to enable the combined company to deploy LTE to more than 97 percent of Americans; to derive the greatest value for consumers from T-Mobile USA’s existing resources; and to keep America on the cutting edge of wireless broadband technologies. The transaction should be promptly approved.

DESCRIPTION OF THE APPLICANTS AND THE TRANSACTION

A. The Applicants

AT&T is a leading provider in the United States of wireless, Wi-Fi, high-speed Internet, local and long distance voice, mobile broadband, and advanced TV services. It also provides worldwide wireless coverage and IP-based business communications services. Headquartered in Dallas, Texas, AT&T is the only large U.S. wireless carrier that is unionized.

Deutsche Telekom AG (DT), based in Bonn, Germany, is one of the world’s leading telecommunications companies with operations in about 50 countries. The Federal Republic of Germany holds approximately a direct 15% interest in DT. KfW, a development bank that is 80% owned by the Federal Republic of Germany and 20% owned by the German federal states, owns approximately a 17% interest in DT. DT’s core businesses, which require substantial capital investments in their own right, involve the provision of fixed broadband and wireless services in Germany and throughout much of the rest of Europe. See Langheim Decl. ¶ 7.

T-Mobile USA, a wholly owned subsidiary of DT, is headquartered in Bellevue, Washington and offers nationwide wireless voice and data services to residential and business customers.

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15 AT&T Mobility LLC, which operates AT&T’s wireless network, is the successor to Cingular Wireless and is a wholly owned subsidiary of AT&T Inc. For ease of exposition for present purposes, the term “AT&T” is generally used here to refer to AT&T Mobility LLC or other wholly-owned subsidiaries of AT&T Inc. Nonetheless, AT&T Inc. is the AT&T applicant in this proceeding and, as noted below, is the corporate entity acquiring T-Mobile USA.
B. Qualifications

The Commission has concluded repeatedly that AT&T has the necessary qualifications required by the Communications Act, and nothing has changed to disturb this conclusion.\textsuperscript{16} The Commission has likewise concluded that T-Mobile USA has the requisite character and qualifications to hold Commission authorizations.\textsuperscript{17}

C. Nature of the Transaction

AT&T Inc. has agreed to acquire from DT all of the stock of T-Mobile USA on a debt-free basis. The total consideration will be $39 billion. That amount will include a cash payment of $25 billion with the balance to be paid using AT&T common stock, subject to adjustment. AT&T has the right to increase the cash portion of the purchase price by up to $4.2 billion with a corresponding reduction in the stock component, so long as DT receives at least a 5 percent equity ownership interest in AT&T. If AT&T makes no adjustments, DT will hold approximately 8 percent of AT&T stock at the transaction’s close. The number of AT&T shares issued will be based on the AT&T share price during a 30-trading-day period prior to closing, subject to a 7.5 percent collar that was determined at signing. The cash portion of the purchase price will be financed with new debt and cash on AT&T’s balance sheet. AT&T has an 18-month commitment for a one-year unsecured bridge term facility with various banks for up to $20 billion. AT&T assumes no debt from T-Mobile USA or DT.


\textsuperscript{17} See Memorandum Opinion and Order, Applications of T-Mobile USA, Inc. and Suncom Wireless Holdings, Inc. for Consent to Transfer Control of Licenses and Authorizations, 23 FCC Rcd 2515, 2519-20 ¶ 10 (2008).
Under the terms of the parties’ Stockholder’s Agreement, DT will have the right to nominate one director for election to the AT&T board so long as it owns 5% or more of AT&T’s voting stock. DT will not be permitted to transfer any stock for the first 12 months after the closing. Sales in any calendar year, other than in a registered offering, will be limited. DT will have demand and piggyback registration rights. But DT will have no special voting rights or other indicia of control. In addition, the Stockholder’s Agreement has a standstill provision that limits DT’s ability to acquire additional AT&T stock.

**STANDARD OF REVIEW**

In reviewing license-transfer applications, the Commission first assesses whether the proposed transaction complies with the specific provisions of the Communications Act, other applicable statutes, the Commission’s rules, and federal communications policy. The Commission then weighs any potential public interest harms of the proposed transaction against the potential public interest benefits. The Applicants need to show by a preponderance of the evidence that the proposed transaction, on balance, serves the public interest. The Commission “may not consider whether the public interest, convenience, and necessity might be served by” a transaction involving an entity “other than the proposed transferee.”

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18 The Agreement specifies that, in some circumstances, DT can retain this right if it owns as little as 2.5% of AT&T’s voting stock if AT&T takes actions to dilute DT’s share.

19 47 U.S.C. § 310(d)


Commission has repeatedly found, merger proceedings are improper forums for addressing general industry issues that are not specific to the transaction.\textsuperscript{22}

This transaction does not violate any law or rule, and, for the reasons discussed below, it will strongly promote the public interest.

**PUBLIC INTEREST ANALYSIS**

**I. THE TRANSACTION WILL BENEFIT CONSUMERS AND THE AMERICAN ECONOMY.**

This transaction will generate strong and diverse public interest benefits that would not occur but for this transaction. First, as discussed in Section I.A, it will create immense network and spectrum synergies that will alleviate the capacity constraints that the applicants would otherwise be left to address, far less efficiently and effectively, on their own. It will thereby increase capacity, enhance efficiency in the use of scarce spectrum resources, and significantly improve quality of service. This expanded capacity will benefit not only the applicants and their customers, but consumers in general. As Professor Carlton explains, the transaction will increase total industry output and thus produce lower prices than would prevail in the absence of the transaction.\textsuperscript{23}

Second, as discussed in Section I.B, the transaction will give the combined company the scale, resources, and spectrum it needs to increase its LTE deployment from AT&T’s current


\textsuperscript{23} See Declaration of Dennis Carlton, Allan Shampine, and Hal Sider, Compass Lexecon, at ¶¶ 12, 58, 133 (April 20, 2011) (“Carlton Decl.”) (attached); see also Section II, *infra*. 
plans of 80 percent of Americans to more than 97 percent. That is a transformative benefit because LTE rivals some of today’s wireline broadband connections in speed and performance. This initiative will increase jobs and investment, particularly in rural areas, and enhance U.S. global competitiveness and leadership in mobile broadband services. Moreover, the transaction will promote America’s global leadership in mobile broadband innovation. Finally, as discussed in Section I.C, the transaction will enhance our country’s disaster preparedness and recovery capabilities.

A. The Transaction Will Benefit Customers of Both AT&T and T-Mobile USA by Creating Substantial Synergies, Expanding Output, and Alleviating Severe Capacity Constraints.

AT&T faces network capacity constraints more serious than those of other providers, and this merger provides the surest, fastest, and most efficient solution to that challenge. This section discusses—

- the sources of these capacity constraints, including AT&T’s leadership in smartphone services, its customers’ escalating data usage, and its need to support multiple generations of technology over limited spectrum bands;
- the practical consequences of those constraints;
- T-Mobile USA’s own capacity constraints and lack of a clear path to LTE;
- the many independent ways in which this transaction will alleviate capacity constraints on both parties’ networks, expand output, and thereby promote competition and consumer welfare; and
- the relative inefficacy of alternative ad hoc patches to the parties’ systemic capacity challenges.

This section then concludes by identifying the tens of billions of dollars in overall cost synergies this transaction is expected to generate.
1. **The Mobile Broadband Revolution Is Placing Unprecedented Strains on AT&T’s Network.**

As Chairman Genachowski recently observed, “mobile broadband is being adopted faster than any computing platform in history, and could surpass all prior platforms in their potential to drive economic growth and opportunity.”

Smartphones are exploding in popularity; data-intensive mobile applications are proliferating; consumers are feeding a limitless appetite for streaming video and social networking sites; and cloud-based computing services are fast emerging. Yet that unprecedented adoption rate is placing similarly unprecedented congestion on mobile broadband networks. And that congestion is hitting AT&T’s network sooner and harder than others for two main reasons. First, AT&T has been a key pioneer of mobile broadband technologies and is now on the leading edge of the mobile traffic growth curve. Second, unlike some of its competitors, AT&T must also dedicate substantial spectrum to serve three different generations of technology.

a) **AT&T has pioneered the mobile broadband revolution, and its network usage has surged dramatically.**

AT&T has long been a leader in wireless innovation, both in developing key network technologies and in forging the commercial relationships needed to launch a wide range of cutting-edge services and devices, including smartphones, e-readers, M2M services, and cloud-based computing. For example, AT&T was the first wireless provider to feature a number of innovative devices, from the revolutionary Motorola RAZR in 2004 to the iPhone in 2007 to the iPad in 2010. And this year, AT&T is the first wireless provider to feature the Motorola ATRIX

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24 Genachowski CTIA Remarks at 5.
25 Declaration of John Donovan, Chief Technology Officer, AT&T Services, Inc., at ¶¶ 4-8 (April 20, 2011) (“Donovan Decl.”) (attached).
4G, the first smartphone to contain dual-core processing technology that can power a laptop via a docking port. All of these devices consume enormous wireless bandwidth. “Smartphones consume 24 times as much data as traditional cell phones,” and they outsold “PCs worldwide—101 million to 92 million in the 4th quarter of 2010.”26 Meanwhile, tablets can consume at least as much data as smartphones, and “[a]nalysts project tablet sales of 55 million worldwide this year.”27

Because of its leadership, AT&T is now on the front end of the mobile broadband traffic growth curve. AT&T has approximately 31 million smartphone users,28 and according to a leading market research firm, its subscribers accounted for more than [Begin Confidential Information] percent of all U.S. smartphone users at year-end 2010, [Begin Confidential Information] [End Confidential Information].29 At the end of 2010, 61 percent of AT&T’s 68.0 million contract subscribers had “integrated devices,” up from 46.8 percent a year earlier.30 And in the fourth quarter of 2010, integrated devices accounted for more than 80 percent of AT&T’s device sales in connection with contract plans. By the end of 2011, AT&T plans to introduce twenty additional devices, including two LTE tablets and additional LTE devices such as smartphones.

26 FCC Fact Sheet, supra.
27 Id.
28 Declaration of Rick L. Moore, Senior Vice President of Corporate Development, AT&T Inc., at ¶ 17 (April 20, 2011) (“Moore Decl.”) (attached).
29 The Nielsen Company, Carrier Share of Smartphone Subscribers – Q4 2010. By comparison, the data show that [Begin Confidential Information] [End Confidential Information] percent. Id.
30 “Integrated devices are handsets with QWERTY or virtual keyboards in addition to voice functionality and are a key driver of wireless data usage.” AT&T 4Q 2010 Investor Briefing, at 4 (Jan. 27, 2011), http://www.att.com/Investor/Financial/Earning_Info/docs/4Q_10_IB_FINAL.pdf.
The result is extraordinary and accelerating usage on AT&T’s network. AT&T’s mobile data volumes increased 8000 percent from 2007 to 2010. Donovan Decl. ¶ 41. That growth is expected to continue. By 2015, AT&T estimates that mobile data traffic on its network will reach eight to ten times what it was in 2010. Moore Decl. ¶ 6. Put another way, in just the first five to seven weeks of 2015, AT&T expects to carry all of the mobile traffic volume it carried during 2010.

b) AT&T must support three generations of technology over its available spectrum.

While AT&T’s capacity challenges arise largely from exploding data usage on its network, they are exacerbated by AT&T’s need to divide its spectrum portfolio among three different generations of technology—a challenge some of its competitors do not face. See Carlton Decl. ¶¶ 9, 34, 76, 106, 116, 120. In particular, even as AT&T begins to deploy LTE services on its AWS and 700 MHz bands, it must continue to support services on the 850 MHz (cellular) and 1900 MHz (PCS) bands for the tens of millions of its customers using two older standards: (1) the 2G GSM standard, and (2) the UMTS standard, enhanced with different types of High Speed Packet Access (“HSPA” and “HSPA+”) technology, which permit increased download and upload speeds.31 Significantly, those customers’ handsets, purchased over many years, are designed for particular standards and frequency bands, and they will not work with newer technologies or on other bands. Hogg Decl. ¶ 16 n.4. Thus, a GSM handset cannot be

31 Declaration of William Hogg, Senior Vice President of Network Planning and Engineering, AT&T Services, Inc., at ¶¶ 18, 20, 22 (April 20, 2011) (“Hogg Decl.”) (attached). As used below, “UMTS” refers to all forms of that technology, whether enhanced with HSPA or not.
used for UMTS or LTE services, and a UMTS handset cannot be used for LTE services. And none of these embedded handsets can be used for any service in the AWS or 700 MHz bands.  

AT&T will need to continue dedicating much of its spectrum to supporting these legacy GSM and UMTS services. As of the end of 2010, AT&T provided GSM services to approximately [Begin Confidential Information] [End Confidential Information] subscribers. Hogg Decl. ¶ 18. And it projects that it will need to continue devoting 850 MHz and 1900 MHz spectrum to GSM subscribers well into this decade, given the time it will take for AT&T to expand its UMTS network and migrate its GSM subscribers to UMTS or LTE services. Id. ¶¶ 5, 27.

As of the end of 2010, AT&T separately provided UMTS service to about another [Begin Confidential Information] [End Confidential Information] subscribers. Hogg Decl. ¶ 22. To support those services, it uses one or more 10 MHz “carriers” of 850 MHz or 1900 MHz spectrum, each consisting of paired 5 MHz blocks of spectrum. Id. ¶¶ 21-22. Because of the high demand for broadband service, AT&T already has had to deploy four carriers (for a total of 40 MHz of spectrum) for UMTS in some areas—and it will need to deploy more in the near future, even if doing so squeezes its GSM spectrum allocation and compromises GSM service quality. See id.; Section I.A.2, infra. AT&T expects that, given the relative infancy of the LTE ecosystem and the time needed to migrate subscribers, it will need to continue to allocate spectrum to UMTS services for a substantial number of years—indeed, even longer than AT&T needs to continue allocating spectrum for GSM services. Id. ¶¶ 5, 27.

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32 Although handsets are not forward-compatible, they are typically backwards-compatible. For example, UMTS handsets can generally process GSM signals (so long as they are transmitted on compatible frequencies). See Carlton Decl. ¶ 33; Hogg Decl. ¶¶ 16 n.4, 22-23.
Finally, AT&T has begun deployment of LTE services using its AWS and 700 MHz spectrum and currently plans to cover more than 250 million people by the end of 2013. *Id.* ¶ 27. LTE offers peak data speeds that, depending on the deployment configuration, are up to four times faster than HSPA+. *Id.* ¶ 24.

Significantly, although it will take time for subscribers to migrate to LTE, AT&T cannot simply “borrow” spectrum from the AWS or 700 MHz bands to address congestion for its GSM and UMTS/HSPA services. First, its customers’ GSM and UMTS handsets do not operate on those bands (or, for that matter, on a range of other frequencies in which third-party providers offer wholesale spectrum services). Hogg Decl. ¶ 66. Second, even if those customers’ handsets did operate on the AWS and 700 MHz bands, carving out some of that spectrum to support GSM and UMTS services would leave AT&T with insufficient spectrum to deploy the fastest and most spectrally efficient LTE services. *See id.*

AT&T’s need to support multiple generations of technology severely constrains its flexibility to use its spectrum with optimal efficiency. Each new generation of technology can support more traffic in a fixed amount of spectrum in a particular geographic area than its predecessor, and greater use of newer technologies is thus more spectrally efficient. For example, UMTS is significantly more spectrally efficient than GSM, and LTE in turn is 30-40 percent more spectrally efficient than HSPA+. Hogg Decl. ¶ 25. LTE is also about 860 percent more spectrally efficient than GSM. *Id.* But migration of customers from one technology to the next is typically a multi-year undertaking even once the new technology is deployed because, among other things, it takes considerable time for customers to migrate to new handsets. *See id.* ¶ 40. For example, in the first year after AT&T launched UMTS service, fewer than [Begin Confidential Information] [End Confidential Information] percent of its customers were
UMTS subscribers. *Id.* Even after five years, only about [Begin Confidential Information]

[End Confidential Information] percent of its subscribers had UMTS service, with the remainder still on predecessor technologies. *Id.* Again, AT&T projects it will need to use its 850 MHz and 1900 MHz spectrum holdings to support GSM and UMTS services for a number of years and, in the meantime, will not be able to re-deploy them for more spectrally efficient LTE services. *Id.* ¶¶ 5, 27.

2. **AT&T Faces Growing Capacity Constraints That, Absent This Transaction, Would Impair Its Ability to Offer High-Quality, Leading-Edge Services to Its Customers.**

As Chairman Genachowski recently warned, today’s “explosion in demand for mobile services places unsustainable demands on our invisible infrastructure—spectrum. . . . And the coming spectrum crunch threatens American leadership in mobile and the benefits it can deliver to our country.”33 He added:

If we do nothing in the face of the looming spectrum crunch, many consumers will face higher prices—as the market is forced to respond to supply and demand—and frustrating service—connections that drop, apps that run unreliably or too slowly. The result will be downward pressure on consumer use of wireless service, and a slowing down of innovation and investment in the space. Emerging markets like mobile medicine, mobile payments, social-network-based services, and machine-to-machine connectivity will see their growth stunted. This would hurt our economy broadly. It would also have a disproportionate impact on minority and low-income groups who are more likely than the average American to access the Internet through a mobile device.34

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33 *Genachowski CTIA Remarks* at 5-6.

34 *Id.* at 9 (emphasis added).
FCC staff has quantified the “looming spectrum crisis” to which the Chairman referred, concluding that “mobile data demand will exceed available capacity by 2013, and will reach a nearly 300 MHz deficit by 2014.”

AT&T’s network-capacity challenges, however, are not just “looming” a few years down the road—they are here today, the product of AT&T’s mobile broadband leadership and its need to support multiple generations of services. And although other providers’ public statements indicate that they have sufficient capacity to cover their needs until additional spectrum is made available via auction several years from now, AT&T must move more quickly.


36 As noted in Section II.B below, Verizon Wireless’s CEO recently reaffirmed that his company is “extremely confident” it has the “spectrum position” it needs. Verizon and Sprint react to US mega deal, Mobile Business Briefing (Mar. 22, 2011) (quoting CEO Dan Mead), http://www.mobilebusinessbriefing.com/article/verizon-and-sprint-react-to-us-mega-deal. Sprint CEO Dan Hesse also has noted the strength of Sprint’s spectrum position: “When you combine Sprint’s spectrum position with Clearwire’s spectrum position it put[s] us in the strongest place for the future.” Andrew Munchbach, Live from CTIA 2010’s Day Two Keynote with Sprint CEO Dan Hesse (Mar. 24, 2010), http://www.bgr.com/2010/03/24/live-from-ctia-2010%E2%80%99s-day-one-keynote-with-sprint%E2%80%99s-dan-hesse/ (“Hesse Keynote”). He further stated that “[w]e have the spectrum resources where we could add LTE if we choose to do that, on top of the WiMAX network. The beauty of having a lot of spectrum is we have a lot of flexibility.” Andrew Parker, Sprint’s 4G move opens way to merger, Fin. Times (July 12, 2010), http://www.ft.com/cms/s/0/c4d6eb6a-8de0-11df-9153-00144feab49a.html#axzz1JKLAeXkb (“Sprint’s 4G move”). Leap’s President and CEO similarly stated that, particularly with its new LightSquared spectrum arrangement (see Section II.B, infra), Leap “certainly ha[s] spectrum in most of our markets to launch LTE and to the degree that we can see cost advantages and scale advantages.” Phil Goldstein, Leap to hold off on LTE devices until 2012 (Apr. 13, 2011), http://www.fiercewireless.com/story/leap-hold-lte-devices-until-2012/2011-04-13?utm_medium=nl&utm_source=internal. Meanwhile, MetroPCS has skipped a generation of technology and moved directly to more spectrally efficient LTE, which according to its COO, will allow it to “have great capacity,” particularly as it “can move voice to LTE.” Sue Marek, MetroPCS’ COO on the pros and cons of the AT&T/T-Mobile deal, FierceWireless (Mar. 30, 2011), http://www.fiercewireless.com/story/metropcs-coo-pros-and-cons-attt-mobile-deal/2011-03-30.
AT&T has worked tirelessly to address these network-capacity challenges through a wide variety of available measures. First, AT&T has added many thousands of cell sites to extend and deepen its network, including approximately [Begin Confidential Information] in 2010 alone. Hogg Decl. ¶ 72. A provider can effectively divide, or “split,” the geographic area covered by a cell site by adding one or more nearby sites. \textit{Id.} ¶ 43. Because each site will serve a smaller area than the original, fewer people have to share the radio channels in each of the split sites, which effectively increases the available capacity. \textit{See id.} To take a simple example, if a cell site covering a given area is divided into two equally sized cells covering the same area, the total capacity (\textit{i.e.}, the amount of traffic that the network can handle) doubles. \textit{Id.} As discussed below, however, building new cell sites is difficult, expensive, and—most importantly—prone to multi-year delays.

Second, AT&T has deployed indoor and outdoor distributed antenna systems (“DAS”), and Wi-Fi hotspots and Hotzones to offload traffic from AT&T’s mobile broadband network and relieve congestion. For example, AT&T installed a DAS network in downtown Chicago to offload heavy usage due to business and festival traffic. Hogg Decl. ¶ 34. AT&T also had deployed 24,000 Wi-Fi hotspots as of the end of 2010 in high use areas, as well as Hotzones in areas such as New York City’s Times Square and Chicago’s Wrigleyville. \textit{Id.} In addition, since 2007, AT&T has purchased or leased spectrum in particular areas (where available and compatible) to alleviate specific capacity constraints on existing networks and to support next-generation networks. \textit{Id.} ¶¶ 33, 66.\textsuperscript{37}

\textsuperscript{37} AT&T also recently implemented tiered data pricing for smartphones, a decision necessitated, in part, by the need to respond to network capacity constraints. \textit{See} Declaration of David Christopher, Chief Marketing Officer, AT&T Mobility Inc., at ¶ 4 (April 19, 2011) (“Christopher Decl.”) (attached).
As discussed in Section I.A.6 below, however, these are short-term and expensive patches, and they are increasingly inadequate for dealing with AT&T’s broader spectrum challenges. In a number of markets, AT&T is burning through its existing spectrum at an accelerating rate. Whereas in 2004 it took 24 months in major markets to exhaust 10 MHz of spectrum, from 2008-2010 growing UMTS demand caused AT&T to burn through 10 MHz in half that time or less in some major markets. Hogg Decl. ¶ 6. As a result, in many urban, suburban, and rural markets, AT&T faces a growing capacity crunch. Absent a solution to this problem, AT&T’s customers would face a greater number of blocked and dropped calls as well as less reliable and slower data connections. And in some markets, AT&T’s customers would be left without access to more advanced technologies. These potential consumer harms vary by market and fall generally into the following categories.

First, AT&T anticipates that it would lack the spectrum it needs to serve the demand for UMTS service in approximately [Begin Confidential Information] CMAs covering nearly [Begin Confidential Information] people by the end of [Begin Confidential Information] (and in additional markets thereafter). Hogg Decl. ¶ 37. In particular, AT&T expects [Begin Confidential Information] CMAs to reach UMTS spectrum exhaust between now and the end of [Begin Confidential Information], and [Begin Confidential Information] more CMAs by the end of [Begin Confidential Information]. Id. These markets include large cities such as [Begin Confidential Information] [End Confidential Information], as well as smaller towns and
rural areas such as [Begin Confidential Information] 

[End Confidential Information]. Id. Without a capacity solution, subscribers in these areas would confront degradation in service, including increased blocked and dropped calls and data connections, slower mobile broadband service, and other reductions in service quality. Id. ¶ 38.

Second, in [Begin Confidential Information] other CMAs covering more than [Begin Confidential Information] people, spectrum constraints currently keep AT&T from launching and supporting more spectrally efficient UMTS services at all. Hogg Decl. ¶ 39. Such areas encompass smaller and rural markets where broadband is less prevalent today, including—to name but a few examples—[Begin Confidential Information] 

[End Confidential Information]. Id. In all of these areas, spectrum constraints deny customers the faster speeds and other benefits that accompany an upgrade from GSM to UMTS/HSPA+. And AT&T is unable to take advantage of the latter technology’s greater spectral efficiencies. Id.

Third, quite apart from GSM and UMTS services, spectrum and capacity constraints would prevent AT&T in some markets from deploying LTE service at all, from providing it in its most beneficial configuration, and/or from serving expected LTE demand. In approximately [Begin Confidential Information] CMAs covering about [Begin Confidential Information] people, AT&T lacks the AWS or 700 MHz spectrum it needs to deploy LTE at all, while T-Mobile USA has at least 20 MHz of AWS spectrum. Hogg Decl. ¶ 60. Within another approximately [Begin Confidential Information] CMAs, covering nearly
AT&T’s average spectrum holding is insufficient to permit deployment of the most spectrally efficient LTE services, whereas the combination of AT&T’s and T-Mobile USA’s spectrum will address the situation. Id. These markets include major cities such as [Begin Confidential Information] and smaller communities such as [Begin Confidential Information], and smaller communities such as [Begin Confidential Information], and smaller communities such as [Begin Confidential Information], and smaller communities such as [Begin Confidential Information].

AT&T also estimates that, as early as [Begin Confidential Information], growing LTE demand is likely to create capacity shortages in such major markets as [Begin Confidential Information].

3. Absent This Transaction, T-Mobile USA Would Confront Capacity Constraints and Lack a Clear Path to LTE.

Meanwhile, T-Mobile USA faces spectrum constraints of its own, despite its substantial investments in spectrum and network facilities. Like AT&T, T-Mobile USA confronts rising demand for data services. As of the end of 2010, 3G/4G smartphone customers accounted for 24 percent of T-Mobile USA’s total customers, about double the 12 percent figure it had achieved by the fourth quarter of 2009. Because of this “explosive growth in demand,” T-Mobile USA “faces spectrum exhaust in a number of markets.” Larsen Decl. ¶ 12. In particular,

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38 Dr. Kim Kyllesbech Larsen, Senior Vice President, Technology Service and International Network Economics, Deutsche Telekom AG, at ¶¶ 12-13 (April 19, 2011) (“Larsen Decl.”) (attached).

T-Mobile USA anticipates that, during [Begin Confidential Information] [End Confidential Information], it will reach spectrum exhaust in [Begin Confidential Information] [End Confidential Information]; that, during [Begin Confidential Information] [End Confidential Information], it will reach spectrum exhaust in [Begin Confidential Information] [End Confidential Information]; and that, by [Begin Confidential Information] [End Confidential Information], anywhere from [Begin Confidential Information] [End Confidential Information] of its markets could follow suit. *Id.* ¶ 18.

Just as significantly, T-Mobile USA has “no clear path” to LTE. Larsen Decl. ¶ 23-26; Langheim Decl. ¶ 11. T-Mobile USA has already dedicated its current spectrum to UMTS/HSPA+ and GSM technologies. Larsen Decl. ¶ 11; Langheim Decl. ¶ 12. As a result, T-Mobile USA “does not have access to the spectrum needed to deploy LTE in an economically and technically sustainable fashion.” Langheim Decl. ¶ 12. Even in areas where T-Mobile USA could try to “refarm” its existing spectrum to make room for LTE, it would face serious competitive disadvantages. [Begin Confidential Information]

[End Confidential Information]. Larsen Decl. ¶ 30. Moreover, T-Mobile USA [Begin Confidential Information] [End Confidential Information]. *Id.* ¶ 23. In short, any such deployment
would be [Begin Confidential Information]

[End Confidential Information]. *Id.* As a result, T-Mobile USA “has no clear path to an effective, economical deployment of LTE.” *Id.* Simply put, its “options are [Begin Confidential Information] [End Confidential Information].” *Id.* T-Mobile USA could try to alleviate these problems by purchasing more spectrum and investing in the necessary network infrastructure—at an estimated cost of [Begin Confidential Information] [End Confidential Information]. Langheim Decl. ¶ 14. But T-Mobile USA has concluded that its options for acquiring sufficient additional spectrum [Begin Confidential Information]

[End Confidential Information]. Larsen Decl. ¶ 9. Further, T-Mobile USA could not acquire new spectrum unless it obtains the necessary billions of dollars in investment capital, and it can no longer look to its corporate parent for that purpose. As DT Senior Vice President Langheim explains, “[t]he required substantial investments in LTE in the United States would significantly stretch Deutsche Telekom’s financial capability or, alternatively, force Deutsche Telekom to reallocate investments from our core Europe operations into T-Mobile USA, which has been shrinking for the last two years and which is lacking a clear path towards LTE to stay competitive.” Langheim Decl. ¶ 14. Because Deutsche Telekom has determined that it cannot divert capital from its core business, it has directed T-Mobile USA to “fund its future itself.”40 As Langheim concludes, “[t]his means that T-Mobile USA would need

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40 *Jan. 20, 2011 DT Analyst Briefing* (Deutsche Telekom CEO Rene Obermann); *see also* Langheim Decl. ¶ 14 (“Because Deutsche Telekom’s financial priorities must be focused on
to fund spectrum acquisitions and other necessary capital investments through its own operations
rather than by drawing on the resources of its corporate parent.” Langheim Decl. ¶ 14. That DT
decision has made it significantly more difficult for T-Mobile USA to obtain the capital it needs
to upgrade its network.

4. **This Transaction Provides By Far the Surest, Most Output-
Expanding, and Most Pro-Consumer Solution to the Applicants’
Capacity Challenges.**

This transaction provides the most effective, efficient, and timely resolution of the
capacity constraints facing AT&T and T-Mobile USA. AT&T’s and T-Mobile USA’s spectrum
and networks are uniquely complementary: in addition to their well-matched cell site grids, both
providers use GSM/HSPA+ technologies and have contiguous and compatible spectrum assets:

**AT&T and T-Mobile USA Networks and Spectrum**

<table>
<thead>
<tr>
<th>Spectrum</th>
<th>AT&amp;T</th>
<th>T-Mobile USA</th>
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<tbody>
<tr>
<td></td>
<td>GSM</td>
<td>UMTS/HSPA</td>
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<td>700 MHz</td>
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<tr>
<td>850 MHz</td>
<td>X</td>
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<tr>
<td>AWS</td>
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X: Active; UC: Under Construction

*See Carlton Decl. ¶ 32 & Table 1.* That complementarity will allow the combined company to
produce the network synergies detailed below, each of which will increase capacity and output
through more efficient use of the applicants’ spectrum and network resources. That increased
capacity is *the functional equivalent of new spectrum.* AT&T estimates that the efficiencies
resulting from this transaction, in combination, will push back the date of expected spectrum
exhaust in many markets, particularly in its constrained markets. Hogg Decl. ¶ 11. With this

Europe, however, Deutsche Telekom’s CEO Rene Obermann has stated publicly that T-Mobile
USA ‘has to develop into a self-funding platform that is able to fund its future itself.’”

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additional time, the company expects to be able to address continuing capacity needs through the ramping down of GSM networks, the fuller deployment of efficient, capacity-increasing LTE technologies, and new spectrum available at auction. Id.

This additional capacity will produce immediate and long-term benefits for the two companies’ customers and consumers at large. It will give the combined company the flexibility it needs, on a market-by-market basis, to improve service quality for existing services and reallocate spectrum so that more consumers will have access to more advanced and spectrally efficient technologies such as LTE. And because the combined network will far exceed the sum of its parts (i.e., 1+1=3), the transaction will increase overall output and consumer welfare more broadly. See Carlton Decl. ¶¶ 51-58, 133; see Section I.A.5, infra. Acting alone, neither company could begin to realize these efficiencies on anything resembling the same timetable.

a) Network Capacity Expansion Through Integration of T-Mobile USA’s Cell Sites.

AT&T and T-Mobile USA have highly compatible cell site grids, both (1) because, unlike other major carriers, they both use GSM and UMTS/HSPA technologies that will permit more rapid integration of cell sites, and (2) because many of T-Mobile USA’s sites are located in places where AT&T needs them to, for example, ease capacity congestion in its network. Hogg Decl. ¶¶ 18-19, 43-45. As a result, upon network integration, the combined company can conduct instant “cell splits,” effectively doubling the amount of traffic that can be carried over the same amount of spectrum in the area served by the original site. See Section I.A.2, supra. All told, AT&T plans to integrate more than [Begin Confidential Information] of T-Mobile USA’s cell sites this way. Hogg Decl. ¶ 44; see also Larsen Decl. ¶ 7.
The cell-site integration will proceed on a rolling basis, beginning immediately upon close of the transaction. AT&T will implement cell splits in its network by identifying T-Mobile USA sites that are complementary to AT&T’s cell grid and then replacing T-Mobile USA’s antennas and equipment with multi-band antennas and AT&T’s equipment. Hogg Decl. ¶ 46. In selecting these T-Mobile USA sites, AT&T will give priority to locations that are currently suffering from near-term capacity constraints. Id. The company expects to see service improvements in areas of various markets in as early as nine months, and it expects to complete this integration process and optimize its network architecture on a national basis within twenty-four months. Id. ¶ 44. AT&T has a proven track record of incorporating cell sites in this fashion from prior transactions. Id. ¶ 45.

Given the complexity and delays inherent in the process of building cell sites (discussed in more detail below), AT&T could not replicate the benefits of this network integration on its own nearly as quickly because it could not possibly build [Begin Confidential Information] additional sites for many more years. See Hogg Decl. ¶¶ 12, 47; see Section I.A.6, infra. In markets throughout the country, the transaction will thus create a denser cell grid far faster than AT&T could standing alone. For example, AT&T projects that integration of T-Mobile USA’s sites will increase cell density by as much as 35-45 percent in Chicago, 25-35 percent in San Francisco and New York, and nearly [Begin Confidential Information] percent in Wichita, Kansas. Hogg Decl. ¶ 47. By itself, this increase in network density will mean that the combined company’s GSM and UMTS networks will have greater capacity than the sum of the two companies’ separate networks. And that additional capacity will relieve congestion, allow for further broadband traffic growth, and, in some markets, allow existing customers to be served
with less spectrum, thereby freeing up spectrum for more spectrally efficient services. *Id.* ¶ 12, 44.

**b) Elimination of redundant control channels.**

AT&T and T-Mobile USA each generally dedicate substantial spectrum to GSM control channels, which are used to transmit commands (such as the assignment of particular radio channels) between user handsets and base stations. Hogg Decl. ¶ 48. The transaction will allow more efficient use of spectrum because the parties’ combined network will require only a single set of control channels, rather than one for each independent network. *Id.* Eliminating redundant control channels will free up anywhere from 4.8 to 10 MHz of spectrum in each market where the applicants both provide GSM service. *Id.; see also* Larsen Decl. ¶ 7.

That spectrum can be either used to improve the quality of GSM service in congested areas or re-deployed and used more efficiently on the combined company’s UMTS network. For example, in a market where AT&T currently has only 5 MHz of spectrum available for redeployment to UMTS, the elimination of redundant control channels could free up enough spectrum to permit the combined company to relieve UMTS congestion by deploying an additional carrier (which requires 10 MHz of spectrum). Hogg Decl. ¶ 48. This efficiency is another way in which the transaction will give the combined company substantially more capacity than the sum of the capacities of the standalone companies, increasing output and generating lower prices than would otherwise prevail. Carlton Decl. ¶¶ 12, 58, 133. No other two major carriers today have compatible GSM networks that would produce this efficiency, and thus it is unique to this transaction.
c) **Channel pooling efficiencies.**

Because not all users in a wireless cell are likely to place calls at once, a large number of those users will share a “pool” of a provider’s radio channels available to connect handsets with the network. Hogg Decl. ¶ 50. The term “channel pooling efficiencies” refers to the efficiencies a wireless provider gains when it can combine spectrum in an area and pool a greater number of wireless channels together. *Id.* For example, if a provider doubles the number of radio channels in a pool, it can serve significantly *more* than double the amount of customer traffic from that pool with the same statistical likelihood of network availability. *See id.* ¶ 52.

By analogy, imagine two airport scenarios involving four ticket agents:

**Scenario 1:** All customers line up in a single queue to accept service from any of the four ticket agents.

**Scenario 2:** Customers line up in two queues on opposite sides of the airport (making it impractical for customers to change queues), and each queue is served by two ticket agents (for a total of four).

Scenario 1 will result in faster and more efficient service for customers than Scenario 2. In Scenario 1, whenever a ticket agent is available, the next customer in line will be served. In Scenario 2, if there is no one in line for one group of ticket agents, those ticket agents could not serve any customers even if there is a long line for the other two ticket agents. *Id.* ¶ 51.

In wireless communications, two providers with complementary spectrum and common technologies can achieve an analogous benefit by serving all of their customers over a single set of shared network resources. In particular, any given caller is significantly more likely to find a vacant channel when a larger number of channels are pooled together. Hogg Decl. ¶ 50. This

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41 Some network engineers use the term “trunking efficiencies” to describe the same phenomenon. Hogg Decl. ¶ 49 n.18. These terms relate to efficiencies in wireless channels between subscribers and radio infrastructure and are unrelated to efficiencies in backhaul facilities between towers and switching stations.
means in turn that, in every market where the parties’ networks overlap, the combined company will be able to serve more customers (i.e., carry more traffic) over the same amount of spectrum than they had independently served before. *Id.* ¶¶ 49-53; *see also* Larsen Decl. ¶ 8. This is yet another way in which the combined company’s network will exceed the sum of its parts, creating the functional equivalent of new spectrum.

Channel pooling permits both immediate and longer-term benefits. In the short term, simply by pooling its GSM channels together, the combined company expects to increase network capacity in many areas by approximately 10 to 15 percent beyond the sum of each network’s capacity standing alone. Hogg Decl. ¶ 50. Significantly, these channel pooling efficiencies can be achieved even if the networks being combined are both near capacity (“heavily loaded”). *Id.* ¶ 52. Once the networks are integrated, channel pooling will thus give the combined company an immediate boost in capacity in markets such as [Begin Confidential Information] [End Confidential Information], where both parties face capacity challenges. *Id.*

Over the longer term, these efficiencies will give the combined company significantly greater flexibility in how it utilizes spectrum. In some markets, they will enable the company to consolidate the two networks’ GSM spectrum, reducing dropped and blocked call rates and improving service quality. *Id.* ¶ 53. In other markets, because channel pooling efficiencies effectively allow a provider to use less spectrum to serve the same number of customers without increasing dropped and blocked call rates, the combined company could free up some spectrum currently dedicated to GSM and re-deploy it for UMTS services. That would relieve congestion for the latter services, allow subscribeship numbers to grow without a loss of service quality, and make more efficient use of spectrum (since, as noted, later wireless technologies are more
efficient than earlier ones). *Id.* Moreover, also over the longer term, the combined company will be able to pool the channels used for UMTS services themselves once it begins serving all UMTS subscribers in a given area over the same frequency bands. *Id.* ¶ 49 n.19. In all of these respects—indeed, as a general matter—the more efficient use of spectrum will reduce the unit costs of providing service. *Id.* ¶ 53.

d) **Utilization efficiencies.**

In markets where one or both companies’ GSM networks are underutilized, the combined company will be able to increase that utilization to help relieve congestion, to migrate spectrum to more spectrally efficient UMTS services, or both. Hogg Decl. ¶¶ 54-55. For example, in [Begin Confidential Information] T-Mobile USA’s GSM network is capacity constrained, but AT&T’s GSM network is comparatively underutilized. *Id.* ¶ 54. Conversely, in [Begin Confidential Information] T-Mobile USA’s GSM network is more heavily loaded than AT&T’s. *Id.* By combining the networks, the parties will be able to carry traffic in those areas more efficiently, thereby relieving congestion and freeing up spectrum. *Id.* ¶ 55. By analogy, consider two water bottles of identical size, where one is 80 percent full and the other is 10 percent full. Pouring the water from one bottle into the other leaves one 90-percent-utilized bottle and frees up an empty bottle to use for some other purpose. In this context, moreover, the freed-up spectrum can hold substantially more traffic than before if it is repurposed for more efficient UMTS technology. *Id.*

The particular ways in which the efficiencies play out will vary by market. The critical point, however, is that the transaction will give the combined company flexibility to make more efficient use of either party’s currently underutilized GSM network in order to relieve
congestion, free up spectrum for more efficient UMTS services (which can carry more traffic over the same amount of spectrum), or both. This is yet another way in which the merger will expand output and enhance consumer welfare.

e) Additional spectrum for more spectrally efficient LTE services.

The transaction also will increase capacity by freeing up spectrum that can be used for more spectrally efficient LTE services. As noted, T-Mobile USA’s AWS spectrum is currently dedicated to relatively less efficient HSPA+ technology. Over time, at a rate that will vary by market, the combined company will be able to (1) migrate T-Mobile USA subscribers off the AWS spectrum to AT&T’s UMTS bands, which merger synergies will have made less congested, (2) upgrade them to LTE service, or (3) pursue some combination of these two. Hogg Decl. ¶ 56. This process generally will take time because it will require the affected T-Mobile USA UMTS subscribers to obtain new handsets, given that their current handsets cannot provide UMTS service outside the AWS band and cannot provide LTE service on any band. But the transaction eventually will enable AT&T to free up T-Mobile USA’s AWS spectrum for higher-performing and more spectrally efficient LTE services. Id. Moreover, in some places, such as [Begin Confidential Information] [End Confidential Information], T-Mobile USA holds AWS spectrum that it has not deployed for UMTS service, and the combined company can re-purpose that spectrum for LTE without having to migrate UMTS/HSPA customers. Id.

In some markets, this spectrum redeployment will enable the combined company to offer LTE where neither company could have offered it separately. For example, as noted above, in approximately [Begin Confidential Information] [End Confidential Information] CMAs where AT&T lacks enough 700 MHz or AWS spectrum to deploy LTE, T-Mobile USA has
AWS spectrum that can be used to support that deployment. Hogg Decl. ¶ 60. These markets include [Begin Confidential Information]

[End Confidential Information], to name a few examples. Id. Within approximately [Begin Confidential Information] [End Confidential Information] additional CMAs (including cities such as [Begin Confidential Information] [End Confidential Information] and smaller towns such as [Begin Confidential Information] [End Confidential Information]), the combination of AT&T and T-Mobile USA spectrum will give the post-merger company contiguous blocks of at least (on average) 20 MHz of AWS spectrum for LTE, which AT&T currently lacks in those areas. Id. In these markets, that 20 MHz of contiguous spectrum will enable the combined company to provide LTE to more people at faster speeds and with greater efficiency. Id. In other markets, the redeployment of T-Mobile USA’s spectrum to LTE will also help prevent likely exhaustion of the LTE network as that service ramps up and demand inevitably increases. Id. AT&T estimates that, without this transaction, it is likely to face LTE capacity constraints as early as [Begin Confidential Information] [End Confidential Information] in such major markets as [Begin Confidential Information] [End Confidential Information]. Id.

Finally, as described above, T-Mobile USA has no clear path to providing LTE service with its current spectrum holdings because it is already serving millions of customers on its AWS spectrum using less spectrally efficient HSPA+ technologies. This transaction will provide a clear path for migrating T-Mobile USA customers to more efficient LTE services, thereby enabling the combined company to further expand output.
In sum, the transaction will enable the merged firm to create far greater capacity on the combined network than the two networks could achieve on their own by (i) creating a denser network with additional cell sites that increase aggregate capacity; (ii) increasing spectrum available to provide service by consolidating redundant GSM network control channels; (iii) increasing the efficiency of existing spectrum through “channel pooling”; (iv) making greater use of underutilized networks; and (v) freeing up spectrum for more spectrally efficient services and thereby expanding the number of areas in which such services will be deployed. In so doing, the transaction will give the combined company much-needed flexibility to relieve capacity constraints by enabling it to optimize its use of spectrum on a market-by-market basis, while giving it the headroom necessary to migrate users to more efficient technologies over time.

5. **By Alleviating the Parties’ Capacity Constraints and Enabling More Efficient Use of Spectrum, This Transaction Will Yield Substantial Benefits for Consumers.**

The transaction will benefit consumers in general and the two companies’ customers in particular. First, as Professor Carlton explains, “[t]he increase in the combined capacity of the AT&T and T-Mobile USA networks that will result from the proposed merger will lower the cost of serving additional subscribers and thus create incentives to expand output and lower prices relative to the levels expected in the absence of the transaction.” Carlton Decl. ¶ 134; see also id. ¶ 12. The combined company will have especially “strong incentives to fully utilize available capacity given the rapid projected increase in the demand for wireless services and competition from AT&T’s rivals.” Id. ¶ 58; see also id. ¶ 7. Thus, the transaction will increase overall output and produce better services and more competitive prices in the market as a whole than would prevail in the absence of the transaction.
Second, the transaction will deliver major benefits to the current and future customers of both companies:

**AT&T Customers.** Because the transaction will alleviate AT&T’s severe capacity constraints and avoid spectrum exhaust, AT&T’s GSM and UMTS customers will receive higher quality of service in the form of fewer dropped and blocked calls, better in-building and in-home coverage, and faster, more consistent, and more reliable data services, particularly during periods of peak use. See Hogg Decl. ¶ 61-64. And because AT&T will adopt the best practices of each company, AT&T expects that its customers will benefit from T-Mobile USA’s industry-leading customer care practices.42

Moreover, as described above, this transaction will (1) in many areas, give AT&T customers access to UMTS and LTE services they could not otherwise receive at all and (2) in many other areas, give AT&T customers faster LTE services as a result of greater deployment of spectrum resources to LTE services. Further, AT&T’s increased deployment of LTE to more than 97 percent of the U.S. population will give millions of people who are not currently AT&T customers the option of choosing LTE services. As a result, these customers will be able to take advantage of faster services with less latency (particularly important for applications such as telemedicine, video conferencing, and online gaming). Hogg Decl. ¶ 26.

**T-Mobile USA Customers.** Again, the transaction will give T-Mobile USA customers their only clear path to LTE, the mobile technology of the future. Larsen Decl. ¶ 36. T-Mobile USA customers, like AT&T customers, will further benefit from improved service quality,

especially in capacity-constrained areas, with fewer dropped and blocked calls and faster and more consistent data downloads. T-Mobile USA customers will also gain access to a broader range of current devices such as the iPhone, the iPad, and the ATRIX 4G, as well as faster access to the next generation of devices. Moore Decl. ¶ 10.

Further, because most T-Mobile USA GSM customers have handsets that will work on AT&T’s GSM network, AT&T expects that, immediately after closing, T-Mobile USA’s customers in certain areas will benefit from their ability to access both networks. Hogg Decl. ¶ 57. In these areas and elsewhere once the networks are integrated, T-Mobile USA’s GSM customers will enjoy improved coverage, including superior in-building and in-home service, because of the denser grid and access to 850 MHz spectrum. Id. As T-Mobile USA’s UMTS subscribers migrate to the AT&T network, they too will benefit from better in-building penetration and broader coverage—indeed, more than double the geographic coverage for UMTS they have today. Id. 58. These are key benefits: [Begin Confidential Information]

[End Confidential Information]. Larsen Decl. ¶ 30.

Finally, the transaction will enhance the diversity of rate plans available to T-Mobile USA customers. Consumers who are happy with their T-Mobile USA rate plans will be able to keep them, so they will enjoy the benefits of improved service quality and thus a lower quality-adjusted price. Moore Decl. ¶ 30. Moreover, T-Mobile USA customers who wish to consider other options will have access to AT&T’s broad selection of rate plans, such as basic/senior plans available to customers 65 years and older, individual entry-level plans starting as low as 200 minutes per month, and plans with expanded weekend hours, and rollover minutes. Id. In
addition, they will benefit from free mobile-to-mobile calling to a substantially expanded customer base. \textit{Id.}

To be clear, consumers will not have to make any changes to their T-Mobile USA services or devices upon the close of this transaction. Their handsets will continue to work, and they can remain on their current rate plans. The transaction merely gives them the highly valuable \textit{option} to take advantage of more advanced service technologies, a broader range of devices, and additional rate plans.

6. \textbf{Alternative Solutions to the Two Carriers’ Capacity Challenges Would Be Far Inferior.}

AT&T and T-Mobile USA have thoroughly explored alternatives for relieving their capacity constraints, and each is already aggressively pursuing all steps reasonably available to make more efficient use of its existing spectrum and network. But those steps are costly and prone to lengthy delays, and none of them would come close to providing the benefits and efficiencies of this transaction. As the Commission’s staff has recognized, even “substantial investment” in networks is unlikely to prevent spectrum exhaust due to mobile data demand.\footnote{FCC Technical Paper No. 6, at 26; see also Federal Communications Commission, \textit{Connecting America: The National Broadband Plan}, at 77 (2010), http://download.broadband.gov/plan/national-broadband-plan.pdf (“\textit{National Broadband Plan}” (“In the absence of sufficient spectrum, network providers must turn to costly alternatives, such as cell splitting, often with diminishing returns.”)).}

\begin{itemize}
\item \textbf{a) Adding sites}
\end{itemize}

Although wireless networks can incrementally increase capacity in some circumstances by organically adding cell sites through cell splitting, that approach cannot provide the solution AT&T needs. Hogg Decl. ¶¶ 67-72. With this transaction, AT&T expects to integrate more than

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T-Mobile USA cell
sites into the AT&T network. *Id.* ¶ 67. For a variety of reasons discussed below, AT&T simply could not add new sites in anything close to the same period of time, or likely in the same advantageous locations, in the absence of this transaction. *Id.* ¶¶ 69, 72.

To add a site, a provider must locate a suitable and available location, arrange to acquire the site through purchase or lease, comply with regulatory requirements that necessitate extensive studies and consultation, apply for and obtain building permits and zoning approvals, contract with third-party vendors to purchase the needed equipment, construct the site and associated backhaul, and then integrate the site into the network. *Id.* ¶¶ 69-71. This process can literally take years. In the San Francisco/Bay Area market, for example, the zoning process *alone*—only a single step in this long, multi-step process—has taken AT&T an average of

[Begin Confidential Information] [End Confidential Information] to complete. *Id.* ¶ 70.

Despite these obstacles, AT&T completed approximately new cell sites in 2010, which was less than the sites it budgeted for and pursued. Hogg Decl. ¶ 72.44 Thus, the T-Mobile USA sites that AT&T could integrate represent more than eight years of new sites based on AT&T’s 2010 rate. *Id.* ¶ 67. Nor are the delays inherent in the site addition process likely to diminish in the near future. To the contrary,

44 In some areas, AT&T’s success rate in adding sites was even worse. In the metropolitan area, for example, AT&T completed only percent of the site additions that were planned that year. Hogg Decl. ¶ 72.
many municipalities face budget deficits and have fewer resources to process tower site applications even as the number of site applications has grown with the rollout of 4G services by multiple providers. *Id.* ¶ 71. At the same time, the pace of those other providers’ site additions limits the available pool of engineering, vendor, and other resources AT&T needs in order to add cell sites of its own. *Id.*

Delay is not the only reason that AT&T could not come close to replicating the cell density improvement resulting from this transaction. T-Mobile USA’s sites are the product of years of effort to secure the best cell site locations. Some of T-Mobile USA’s well-placed sites appear to be in locations where AT&T could not replicate them—for example, because of limited space. Hogg Decl. ¶ 68. Moreover, after years of aggressive cell-splitting activities to improve capacity, it has become increasingly difficult for AT&T to find suitable locations. *Id.* ¶ 69. Finally, adding sites is also extremely costly. Indeed, Commission staff has estimated that it would cost the industry $174 billion to build enough cell sites to handle the expected demand growth between now and 2014 and has concluded that adding cell sites is not a feasible alternative to additional spectrum for dealing with growing mobile data demand.46

Nor could AT&T simply lease space on these [Begin Confidential Information] T-Mobile USA sites in the absence of this transaction. Even if T-Mobile USA owned a given cell tower and wished to explore such a leasing arrangement, [End Confidential Information]

[Begin Confidential Information]

45 There is no merit to speculation that AT&T could add more sites faster by relying on third-party tower companies. *See* Spencer Ante & Amy Schatz, *Skepticism Greets AT&T Theory*, Wall St. J. (Apr. 4, 2011). AT&T already has pursued that course with vigor, and many of the sites it adds involve third-party tower companies. But such companies often do not have towers in the locations where AT&T faces congestion and needs to add a site. Indeed, in many cases where AT&T works with a tower company, the tower company itself needs to build a new tower, thus encountering many of the same obstacles outlined above.

46 *FCC Technical Paper No. 6*, at 21.
many of those sites may not have space or the structural reinforcement needed for two carriers’ equipment. After this transaction, by contrast, the combined company will integrate the sites into a single network with only one set of equipment and multi-band antennas.

b) Deployment of DAS and Wi-Fi

Nor can outdoor distributed antenna systems and Wi-Fi hotspots (and Hotzones) achieve the same nationwide efficiencies as the merger, even if they are coupled with other available measures to increase efficiency and manage capacity. AT&T’s experience is that Wi-Fi provides less meaningful capacity relief than a cell site and, of course, is limited to small areas. Hogg Decl. ¶ 73. Distributed antenna systems likewise provide meaningful traffic offload only in areas with extremely high user densities, such as convention centers, stadiums, and universities. Id. And even then, they are extremely expensive to deploy, costing on average [Begin Confidential Information] more than an equivalent cell split and over [Begin Confidential Information] more than adding a carrier to an existing cell site. Id. Further, deployment of DAS can be subject to permitting and construction delays similar to those affecting new cell site additions. Id. At best, both Wi-Fi and DAS offer highly localized solutions for areas much smaller than those served by a cell site and cannot solve the systemic capacity issues that AT&T and T-Mobile USA confront. Id. 47

c) Redeploying existing spectrum

It would also be exceptionally difficult, if not impossible, for AT&T to repurpose its existing spectrum quickly enough to alleviate the capacity crunch it faces. As noted above,

47 While AT&T also has added femtocells to its networks, these are designed primarily to address in-home coverage issues rather than to increase network capacity and, accordingly, do not constitute a workable solution to capacity problems in most cases. Hogg Decl. ¶ 73.
AT&T must continue to support tens of millions of GSM and UMTS subscribers. These embedded users have handsets that work only in particular bands and with particular technologies, limitations that severely constrain AT&T’s ability to repurpose the spectrum those customers use. And existing customers generally will not transition quickly from one technology or frequency band to another, because doing so requires them to give up their existing handsets. Based on AT&T’s experience, it can take years for subscribers to migrate to new technologies in volumes sufficient to provide material offload from the legacy network. Hogg Decl. ¶ 27. As discussed, AT&T also cannot use its existing AWS and 700 MHz spectrum to alleviate capacity constraints, since that spectrum is needed for LTE services that AT&T is deploying. Indeed, because LTE is more spectrally efficient than GSM and UMTS, it would be a significantly less efficient use of spectrum to divert AWS and 700 MHz spectrum from LTE to these older technologies.

Nor can AT&T address its short-term capacity challenges with the spectrum it is purchasing from Qualcomm. That spectrum is only “unpaired” (one-way). Moore Decl. ¶ 25. Although technological advances will allow unpaired spectrum to be integrated into two-way wireless technologies to supplement downlink capacity, the technical specifications for doing so in LTE will not be developed until 2012, and equipment manufacturers will then need substantial time to design, test, and build the relevant equipment. As a result, this spectrum likely will not be available until 2014 at the earliest.48

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48 Moore Decl. ¶ 25. AT&T’s existing WCS spectrum holdings cannot be used for this purpose either, because the technical rules for the WCS band, such as limits on the power spectral density limits, make it infeasible to use that band for broadband service. See AT&T Petition for Partial Reconsideration, WT Docket No. 07-293, at 13-20 (filed Sept. 1, 2010). And the spectrum that AT&T acquired in 2010 as a result of divestitures in the Verizon/Alltel transaction primarily expanded AT&T’s footprint to cover areas where it previously had not
d) Adding spectrum through purchase or lease

AT&T and T-Mobile USA also have no feasible near-term sources of additional spectrum that would solve the problem. Although the Commission has identified spectrum it hopes to free up for commercial use, the Commission staff has observed that “new spectrum has historically taken between six and thirteen years to make available[.]”\textsuperscript{49} That will be too late to solve the provider-specific challenges that AT&T and T-Mobile USA confront today. For example, the broadcast spectrum that the Commission proposes to make available for broadband use through incentive auctions will require passage of new federal legislation, an FCC rulemaking, the occurrence of the auction process itself, clearance of the spectrum, and deployment of the needed equipment. Recent experience teaches that these steps take many years and proceed with extreme unpredictability. Moore Decl. ¶ 23; Larsen Decl. ¶¶ 33-35. AT&T certainly cannot count on this process to resolve its growing capacity constraints today.

Nor can AT&T find an adequate solution by acquiring spectrum that has already been licensed to other mobile providers. AT&T is sometimes able to purchase small blocks of spectrum in selected areas, but that is at most a localized and short-term solution. Moore Decl. ¶ 24. Also, AT&T often cannot feasibly make use of other providers’ spectrum because its existing network equipment and customers’ handsets will not operate on it. \textit{See id.} ¶ 22; Hogg Decl. ¶ 16 n.4; Carlton Decl. ¶ 33.

For similar reasons, spectrum leased from wholesale providers such as Clearwire or LightSquared cannot address AT&T’s mounting capacity constraints. Among other limitations, owned a network. Because there was very little overlap, the transaction provided no relief for AT&T’s capacity challenges. Hogg Decl. ¶ 33 n.13.

\textsuperscript{49} \textit{FCC Technical Paper No. 6}, at 26.
AT&T (like T-Mobile USA) has a large embedded base of subscribers whose existing handsets would not work on those providers’ spectrum bands or with their technologies. This transaction presents an efficient solution in part because it avoids that problem: AT&T and T-Mobile USA use compatible GSM spectrum that will not require immediate handset replacements for existing subscribers. In contrast, Clearwire or LightSquared spectrum may well offer reasonable solutions for carriers like MetroPCS or Leap, but only because they can put it to a quite different use. Unlike AT&T, which needs additional spectrum to relieve congestion on existing service bands serving millions of current customers, MetroPCS and Leap can look to Clearwire and LightSquared to deploy a new generation of service over a new generation of handsets. More generally, as Professor Carlton points out, LightSquared, Clearwire, and the companies that use their spectrum “can ‘leapfrog’ existing carriers by deploying ‘next generation’ technologies without needing to dedicate spectrum and network assets to serving existing subscribers.”

Carlton Decl. ¶ 76; see also id. ¶ 106.

7. In Addition To Network-Capacity-Oriented Synergies, the Transaction Will Also Create Substantial Cost Synergies.

AT&T projects that this transaction will generate cost savings and other synergies that ultimately exceed the purchase price of $39 billion, with an annual run rate on the order of $3 billion from year three onward. Moore Decl. ¶ 32. These cost synergies are based on standard discounted cash flow analysis, and are described in greater detail in the attached declaration of AT&T Senior Vice President of Corporate Development Rick Moore.

To take one example, even as AT&T integrates thousands of T-Mobile USA’s cell towers to enhance the efficiency of the combined network, it can also decommission thousands of surplus sites, generating substantial costs savings from elimination of leases, utilities,
maintenance, and other site-related expenses. Moore Decl. ¶ 34. AT&T will also be able to reuse equipment from these decommissioned sites to enhance network coverage and performance in other locations, resulting in additional savings. AT&T will also be able to reuse equipment from these decommissioned sites to enhance network coverage and performance in other locations, resulting in additional savings.\textsuperscript{50} Id. Further savings will arise from a reduction in interconnect and toll expenses as a result of switching to AT&T where possible for transport. Id.

The combined company will also be able to take advantage of scale efficiencies by, for example, optimizing its retail and distribution network. Moore Decl. ¶ 35. And the company will be able to combine customer support and billing functions to generate additional annual savings. Id. ¶ 37. The transaction will further generate purchasing efficiencies when the combined company procures customer equipment such as handsets as well as network equipment and infrastructure. Id. ¶¶ 35-36. The transaction will also enable the combined company to re-allocate capital expenditures that the individual companies would have been required to make over the next few years in attempting to address some of their respective capacity issues, including capital to build out infrastructure and acquire spectrum on the secondary market. Id. ¶ 36.

Consumers will benefit as the combined company realizes these cost reductions. As Professor Carlton explains, reductions in marginal costs (such as customer acquisition costs) create incentives to expand output and reduce prices to consumers. Carlton Decl. ¶ 67. But that is also true of fixed cost savings in an industry, like this one, that is operating near capacity and faces high costs to expand output. In that situation, all such costs—"including those typically considered ‘fixed’ in an accounting sense—are properly thought of as variable because they must

\textsuperscript{50} AT&T will likely make the remaining equipment and towers (if the company owns them) available for sale to other providers.
be incurred in order to serve additional subscribers.” *Id.* As Professor Carlton concludes, the synergies created by combining these two companies will reduce the “fixed costs” of expanding output and will thus increase the combined company’s economic *incentives* to expand output, all to the benefit of consumers. *Id.*

Finally, AT&T has a strong track record of realizing synergies from prior transactions. *See* Moore Decl. ¶¶ 38-42. In these prior acquisitions, AT&T not only gained experience in how to integrate operations, but also met or exceeded key targets for synergies and cost savings while delivering significant customer benefits. For example, within just a few years of Cingular’s acquisition of AT&T Wireless, the combined company had lowered costs in areas such as network infrastructure, sales and marketing, and billing and information systems; dramatically expanded its 3G footprint; improved Cingular’s customer retention; and launched new innovative devices and products. *Id.* ¶ 39. The SBC-AT&T Corp. merger further illustrates AT&T’s ability to execute merger integrations successfully. While SBC had estimated in January 2005 that the net present value of merger synergies from that transaction would be $15 billion, it was able to increase that forecast one year later to approximately $18 billion. *Id.* ¶ 40. And from 2006 through 2008, actual synergy savings exceeded expectations in a variety of areas, including network planning and engineering, information technology, and procurement. *Id.*

AT&T likewise exceeded forecasted synergy savings in a number of categories in its acquisition of BellSouth. *Id.* ¶ 41.
B. This Transaction Will Strongly Advance the Nation’s Broadband and High Tech Goals.

1. This Transaction Gives the Combined Company the Necessary Scale, Scope, Resources, and Spectrum to Deploy LTE to More than 97 Percent of Americans, Thereby Stimulating Economic Growth and Thousands of Jobs.

As a result of this transaction, AT&T can increase its LTE deployment from 80 to more than 97 percent of the U.S. population. That deployment will mark a quantum leap towards meeting the Administration’s rural broadband deployment objectives—without any expenditure of public funds.

In his State of the Union address, President Obama noted the strategic importance of broadband in “winning the future” by “encouraging American innovation” and maintaining our global competitiveness.51 Central to the President’s message was the fundamental importance of widespread broadband availability. He vowed to “make it possible for businesses to deploy the next generation of high-speed wireless coverage” throughout America, not only to produce a “faster Internet” and “fewer dropped calls,” but also to “connect[] every part of America to the digital age.”52 The benefits of this private investment, he added, will be diverse and immense: “farmers and small business owners will be able to sell their products all over the world,” firefighters “can download the design of a burning building onto a handheld device,” rural students can “take classes with a digital textbook,” and a patient in a remote area “can have face-to-face video chats with her doctor.”53 These private investments, he concluded, “will make

51 Obama 2011 State of the Union Address, supra.
52 Id.
53 Id.
America a better place to do business and create jobs.”\(^{54}\) In February 2011, the President followed up on this pledge by announcing the Wireless Innovation and Infrastructure Initiative, which takes steps to extend the 4G revolution to rural areas and bring them fully within the 21st century economy.\(^{55}\)

This Commission has likewise recognized that “[b]ringing ubiquitous and affordable broadband services to rural America will improve the quality of education, healthcare, and public safety in rural America, among other benefits. On a larger scale, ensuring that all Americans, including those in rural areas, have access to such services will help to improve America’s economy, its ability to compete internationally, and its unity as a nation.”\(^{56}\)

AT&T’s 97 percent LTE deployment will help the U.S. meet these critical priorities. AT&T’s current (pre-merger) plans call for deployment of LTE to approximately 80 percent of the U.S. population but no more. See Moore Decl. ¶¶ 5, 13. The remaining 20 percent of the population generally lives in less populated areas, including rural and smaller communities, where economies of scale and density are very low and per-customer costs are very high.\(^{57}\) And in some of these areas, AT&T simply lacks the spectrum necessary to deploy LTE. See Section I.A, supra. This transaction, however, will give AT&T the scale, scope, resources, and spectrum

\(^{54}\) Id.


it needs to increase its LTE deployment from 80 percent to more than 97 percent of the U.S. population.

This initiative means, in practical terms, that AT&T will provide LTE to approximately 55 million more people than under its current plans and more than an additional million square miles, which equates to more than one-third of the land mass of the contiguous United States. Much of this additional service will be provided in rural areas and will thus give rural residents access to efficient, fast, and reliable broadband connections that they might otherwise lack altogether. And even in locations where another provider has already deployed LTE, AT&T’s deployment will provide, at a minimum, key additional competition.

The LTE and other deployment initiatives this transaction makes possible will spur additional broadband investment, jobs, and economic growth worth billions of dollars in all areas of the country. One study concludes that “[a]nnualized investment in 3G wireless and satellite technologies from 2003 to 2009 was $11.6 billion, which corresponds to 168,300 jobs created.” Chairman Genachowski has likewise recognized that 4G investment can spur hundreds of thousands of new U.S. jobs. And Lawrence Summers, then head of the President’s National Economic Council, stated in 2010 that “[e]ach dollar invested in wireless deployment is estimated to result in as much as $7 to $10 higher GDP,” and that as wireless investment grows, “the benefits for job creation and job improvement are likely to be substantial.”

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59 Genachowski *CTIA Remarks*, at 9 (citing estimate of the High Tech Spectrum Coalition: “[O]ver the next five years, investments in 4G wireless technologies will create 205,000 US jobs, assuming our spectrum infrastructure can handle 4G demand.”).

60 *Summers Remarks, supra.*
This transaction will create precisely those “benefits for job creation and job improvement.” In addition, because AT&T is the only unionized major wireless company, this transaction will bring jobs with union wages and benefits. That is one reason why this transaction has drawn strong support from the Communications Workers of America and the AFL-CIO. And the success of AT&T’s best-in-class supplier diversity program, along with the benefits of LTE for communities of color (discussed below), are key reasons why civil rights groups including the NAACP and the Hispanic Institute have highlighted the transaction’s potential to significantly expand the opportunities for minority consumers and businesses to participate in our country’s broadband economy.

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61 See CWA, AT&T/T-Mobile Deal Will Benefit Workers and Build Out Broadband (Mar. 24, 2011) (“AT&T’s acquisition of T-Mobile USA is good news. AT&T will build out broadband to provide service to 95 percent of the country and workers at T-Mobile will benefit from a management record of neutrality in organizing. The merger of AT&T and T-Mobile spectrum will improve AT&T’s network and quality, along with the job security of CWA members.”), http://www.cwa-union.org/news/entry/att_t-mobile_deal_will_benefit_workers_and_build_out_broadband; see also Statement by AFL-CIO President Richard Trumka on Announced Acquisition of T-Mobile USA by AT&T (Mar. 22, 2011), www.speedmatters.org.


63 For example, the NAACP states: “AT&T’s acquisition of T-Mobile has the potential to benefit consumers, communities and workers alike. AT&T has scored among the highest ranked in the telecommunications industry for its commitment to diversity in terms of procurement, philanthropy, promotion and hiring among other criterion at the federal, state and local levels . . . . We are hopeful that this acquisition will further advance increased access to affordable and sustainable wireless broadband services and in turn stimulate job creation and civic engagement throughout our country.” Letter from Hilary O. Shelton, Director, Washington Bureau and Senior Vice President for Advocacy and Policy, NAACP, to Marlene Dortch, FCC, at 1 (Apr. 18, 2011); The Hispanic Institute Announces Support for Proposed Merger of AT&T and T-Mobile (Mar. 21, 2011) (“The proposed merger of AT&T and T-Mobile will move us closer to universal mobile broadband deployment. When we consider how essential mobile technology is to empowering communities, we conclude that this proposal is good for Hispanic America.”), http://www.thehispanicinstitute.net/node/3690.
This more than 97 percent LTE deployment will further create long-term benefits for the affected communities that far transcend the immediate economic stimulus. LTE will bring especially significant benefits to residents of rural areas and smaller communities, where the benefits of real-time video and similar capabilities are most urgently needed to fill gaps in physical infrastructure for healthcare, education, and other social needs. For example, LTE’s uniquely low latency rate provides better support for delay-sensitive online applications such as distance learning (which involves real time interaction between students and teachers), video conferencing, remote medical monitoring, real-time patient examinations by doctors in multiple locations, and complex gaming systems played simultaneously by thousands of users. *See, e.g.*, Donovan Decl. ¶ 29.

In addition, LTE’s state-of-the-art broadband performance will create a virtuous cycle of investment and innovation in cloud computing. With increased spectrum and higher bandwidth speeds, more information and processing power can be transferred to the “cloud”—*i.e.*, to Internet-based servers running sophisticated programs that end users can use on demand through their broadband connections. *See* Donovan Decl. ¶¶ 6, 30-32. As a result, wireless devices will become dramatically more useful to consumers even as—with the transfer of many computing responsibilities to the cloud—those devices become thinner, lighter, and able to support far longer battery life. These advances can also facilitate embedding wireless connectivity in a wide variety of consumer and business devices, with usage and other capabilities monitored and controlled from the cloud. Cloud computing depends, however, on rapid transfers of data between wireless devices and the cloud. Because LTE is uniquely efficient in handling those data transfers, broader LTE coverage will support the shift towards cloud-based services for business and consumers and ensure in particular that rural areas are not left behind. As
Chairman Genachowski recently observed, “[a] thriving global cloud computing industry, built on ubiquitous broadband, can be as beneficial for economic growth in the 21st century as electricity was in the 20th.”64

AT&T’s massive LTE deployment will also help close the digital divide. As a group of sixteen prominent civil rights organizations has explained in filings with the Commission, “[d]ue in part to the relative affordability of wireless offerings, wireless broadband has been a real success story for minorities.”65 Indeed, according to numerous studies, “wireless is the only broadband technology for which minority adoption and use currently indexes at higher levels than for White Americans.”66 A report by the Pew Internet & American Life Project, for example, found that “African Americans are the most active users of the mobile internet—and their use of it is also growing the fastest. This means the digital divide between African Americans and white Americans diminishes when mobile use is taken into account.”67


65 Comments of the National Organizations, GN Docket No. 09-191, at 10 (Jan. 14, 2010) (including joint comments from ASPIRA Association; Black College Communications Association; Hispanic Institute, Hispanic Technology and Telecommunications Partnership, Labor Council for Latin American Advancement; Latinos in Information Sciences and Technology Association; Lawyers’ Committee for Civil Rights Under Law, League of United Latin American Citizens; MANA, A National Latina Organization; National Association of Black County Officials; National Black Caucus of State Legislators; National Conference of Black Mayors; The National Coalition on Black Civic Participation-Black Women’s Roundtable; National Organization of Black Elected Legislative Women; National Puerto Rican Coalition; United States Hispanic Chamber of Commerce).

66 Id. at 9-12.

report also found similar trends among Hispanic users of mobile broadband services. As Commissioner Clyburn recently pointed out, the African American and Hispanic communities have “excelled” in their adoption of mobile broadband services, and both groups “take advantage of a much wider array of their phones’ data functions than their white counterparts.”

AT&T’s LTE initiative will thus be a key part of keeping these and other minority groups on the leading edge of the broadband revolution. Because LTE technology, unlike its predecessors, operates on a par with some of today’s wireline broadband platforms, LTE can play a particularly important role in the advancement of minority communities. That is why the Hispanic Institute, consistent with the experience of other minority advocates, notes that “mobile broadband access has become a key resource to help many Hispanics succeed and thrive in today’s economy. From improving health care to increasing educational opportunities and access to government resources, wireless devices, services and applications offer Hispanics a new route to take a full advantage of many life-enhancing resources.” The National Coalition on Black Civic Participation has similarly pointed out that the wider availability of wireless broadband services will enhance entrepreneurial opportunities for minority- and women-owned businesses.

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68 Id. at 18.
71 Letter from Joycelyn Tate, Telecommunications Policy Advisor, National Coalition of Black Civic Participation – Black Women’s Roundtable, to Marlene Dortch, FCC, GN 09-51 (Feb. 25, 2010).
In light of all these many benefits that mobile broadband holds for minorities, leading civil rights organizations have recognized the importance of “encourag[ing] investment” in wireless broadband networks and services so that “future generations of Americans, across every demographic” can participate fully in our digital society.\textsuperscript{72} By building out LTE to more than 97 percent of the U.S. population, AT&T will be bringing that vision a big step closer to reality.

In sum, the benefits of this deployment will not end once the LTE platform is deployed. Investment in broadband infrastructure generates dynamic economic and social value that can dramatically improve consumer welfare for years to come. LTE service will provide millions of Americans with better healthcare, greater educational and economic opportunities, and stronger engagement in civic life. As the Commission has recognized, ubiquitous, dependable and affordable broadband has become a “foundation for economic growth, job creation, global competitiveness and a better way of life.”\textsuperscript{73} This transaction will help achieve that national priority.


As the National Broadband Plan explains, a core Administration objective is to keep America “lead[ing] the world in mobile innovation, with the fastest and most extensive wireless networks of any nation.”\textsuperscript{74} The U.S. leads innovation in areas throughout the mobile broadband ecosystem, from networks to operating systems to mobile applications. That leadership arises

\textsuperscript{72} See, e.g., Minority Media and Telecommunications Council Reply Comments, GN Docket No. 09-157, at 3 (Nov. 5, 2009).

\textsuperscript{73} National Broadband Plan, at xi.

\textsuperscript{74} Id. at xiv.
from a complex, virtuous cycle of innovation, in which network providers play a critical role.
This transaction will help maintain that global leadership.

    AT&T, in particular, has long played a central role in mobile broadband innovation.
AT&T Labs is a world-class research institution that supports more than a thousand scientists
and engineers, and AT&T earned more than 1,000 patents in 2010 alone. Donovan Decl. ¶ 5. Its
innovations have spanned the entire wireless ecosystem from network standards to speech-
recognition software. To take just one example, AT&T is a world leader in the deployment of
wireless broadband networks using UMTS standards. See id. ¶ 19.

    In this and many other respects, the innovations of wireless providers in general and
AT&T in particular have triggered broader ecosystem innovations, responses, and further
innovations. To win customers, wireless providers are constantly innovating to improve their
mobile platforms, which, in turn, prompts others to deploy ever more innovative devices and
applications. As customers adopt new devices and applications, demand for wireless service
increases, thus spurring network operators to enhance their networks still further. Improved
networks spur more improved devices and applications, which in turn spur still-better networks,
and so on in a “virtuous cycle” of innovation. See id. ¶14.

    Again, however, “there’s a catch. . . . [W]hile American ingenuity and our appetite for
wireless technology is limitless, spectrum is not. And the coming spectrum crunch threatens
American leadership in mobile and the benefits it can deliver to our country.”75 As discussed,
that spectrum crunch is hitting AT&T harder and sooner than the industry at large. And because
AT&T plays a key role in supporting the cycle of mobile broadband innovation in the United
States, its capacity problems could have ripple effects throughout the broadband ecosystem. By

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75 Genachowski CTIA Remarks at 5-6.
efficiently addressing those constraints before they prevent AT&T from helping support the next
generation of innovative mobile services and applications, this transaction will be good not only
for AT&T and its customers, but for America’s high tech sector as a whole. Donovan Decl.
¶¶ 12-16.

C. The Transaction Will Enhance Public Safety.

Disaster preparedness has become a national imperative, and AT&T has responded with
best-in-class preparedness capabilities. Over the last decade, AT&T has devoted unparalleled
resources to America’s need for effective communications in emergencies, including mobile
command centers, portable cell sites known as Cells on Wheels (COWs) or Cells on Light
Trucks (COLTs), a fleet of mobile generators, and mechanisms for linking mobile cell sites to
satellites when landline connections go down. These resources are pre-positioned around the
nation and can be deployed on short notice to areas struck by emergencies. AT&T’s disaster
preparedness teams also have highly specialized capabilities to restore communications in the
event of incidents involving chemical, biological, radiological, and other hazardous materials.

AT&T’s response to Hurricane Ike in 2008 illustrates its emergency-preparedness
capabilities. When Ike struck Galveston, AT&T deployed 500 portable generators to power its
cell sites and set up five mobile cell sites in the area. AT&T doubled the capacity of its 3G
network in the Galveston area during the hurricane to ensure that emergency personnel had

reliable connectivity, and emergency personnel, Red Cross relief workers, and insurance claims adjusters could thus connect their laptops to AT&T’s 3G network for data services. AT&T also dedicated a team of its employees to travel around the area with emergency personnel teams to ensure that they had the communications tools needed to respond effectively to situations as they developed. In total, AT&T deployed more than 3000 technicians and 200 construction contractors to restore communications to the Galveston area.

This transaction will enable AT&T to build on its strong track record for disaster preparedness by expanding the infrastructure and spectrum resources from which it can draw during emergencies. T-Mobile USA also has an excellent track record of disaster recovery and response over many years, as demonstrated during Hurricane Katrina in 2005. T-Mobile USA additionally has significant disaster response equipment deployed across the nation, including a large fleet of mobile generators and mobile cell site equipment. AT&T’s and T-Mobile USA’s combined emergency-preparedness initiatives will provide customers with more robust disaster recovery capabilities than they would receive in the absence of this transaction.

II. THE TRANSACTION WILL PRESERVE AND PROMOTE COMPETITION.

The U.S. wireless marketplace is extremely competitive. By freeing the applicants from their output-suppressing capacity constraints, this transaction will leave the marketplace more dynamic and competitive than before, and the beneficiaries will be American consumers.

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By a broad range of metrics, the mobile marketplace ranks among the most dynamic and competitive sectors of the American economy:

First, industry output has been exploding. As discussed in Section I.A above, American consumption of wireless network capacity has increased many times over since 2007, and will increase many times over again by 2015, all at an accelerating pace.

Second, just as quantity has increased, so too has the paradigm-shattering dynamism of wireless services. As the Chairman observes: “In just a matter of years, those brick [1G] phones have evolved into 4-ounce mini-computer smartphones” with “more computing power than NASA’s lunar module”; mobile broadband applications rank among “the most remarkable forces for economic opportunity and quality of life that we’ve ever seen”; “[r]obust networks and powerful devices are allowing us to do all kinds of things we could barely have imagined a few years ago”; and “[i]t’s hard to imagine an industry that’s produced more game-changers than the wireless industry.”

Third, wireless prices have been falling across the board for many years, amid “industry consolidation” that enabled providers to “exploit economies of scale” and thereby “offer more wireless services for similar or lower prices.” For example, the average revenue per voice minute has fallen from approximately 41 cents in June 1996 to less than a nickel in June 2010:

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81 Genachowski CTIA Remarks, at 2, 4.

As the GAO confirmed last year, “the overall average price (adjusted for inflation) for wireless services declined each year from 1999 to 2008,” and “the average price for wireless service in 2009 was approximately 50 percent of the price in 1999.”83 Average industry revenue per text message fell even faster—by more than 70 percent between 2005 and 2008 (from $0.037 to $0.011).84 And the quantity-adjusted price of a wireless broadband plan, measured by average revenue per megabit, has plummeted most dramatically of all. For example, AT&T’s average revenue for one megabyte of data service has dropped almost [Begin Confidential Information]

[End Confidential Information] percent since 2007 (Carlton Decl. ¶ 17):

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Fourth, providers are not resting on today’s successes, but are constantly investing in advanced network infrastructure to support tomorrow’s high-bandwidth services. For example, AT&T invested approximately $21.1 billion between 2008 and 2010 to upgrade and expand its wireless network. Carlton Decl. ¶ 136. Similarly, other major wireless providers—from Verizon to MetroPCS to Leap to Clearwire—have invested billions of dollars in capital upgrades over the past several years, amid the worst recession in decades. This continued and increasing investment underscores the dynamism and competitiveness of the U.S. wireless marketplace. Indeed, this sector has been one of the few bright spots in a still-challenged economy.

Fifth, wireless providers are not only spending billions to improve service; they are also vigorously advertising those improvements to differentiate themselves in the marketplace and win customers. As everyone who watches television or reads a newspaper is aware, wireless providers of all stripes are engaged in unremitting advertising campaigns, touting their network
quality, high speeds, devices, and attractive pricing plans. Indeed, except for the automotive industry, the telecommunications sector (wireline and wireless) outspends every other on advertising. And “wireless service providers” in particular “spend more on advertising than firms in many other industries.”

Sixth, competition is both fierce and multi-dimensional, as providers try to win customers with the most attractive combinations of price, service quality, speeds, devices, and operating systems. In the next section, we discuss in greater detail how network service providers compete along these various dimensions. Yet handset and operating system competition further underscores the dynamism and competitiveness of the mobile broadband ecosystem. Wireless providers offer consumers an ever-expanding array of handset options to win and keep their business, and U.S. consumers can now choose among more than 600 handsets produced by dozens of independent handset manufacturers, including Apple, Dell, HTC, Kyocera, LG, Motorola, Nokia, Palm, Pantech, RIM, Samsung, Sharp, and Sony Ericson. These handsets have widely varying features to accommodate all tastes, including appealing form factors, high-resolution color screens, user-friendly interfaces, simple-to-use features, high-quality cameras, Bluetooth and Wi-Fi connectivity, and the ability to run hundreds of thousands of applications written by third parties.

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Wireless providers also compete vigorously to offer a diverse selection of operating systems, including Android, Windows Mobile, BlackBerry OS, Apple iOS, Nokia Symbian, and Palm OS. This intense competition is perhaps best illustrated by the rapid ascent of Google’s Android operating system. Although it was formally introduced just over three years ago, Android has now become the “most popular smartphone operating system in the United States.”

Android’s success arises both from its innovativeness and from Google’s parallel development of the Android Market, which now boasts more than 150,000 Android-compatible apps. Android’s extraordinarily rapid growth is also due to the fierce rivalry among wireless service providers, which have added a host of Android-based handsets to their device portfolios and aggressively marketed them to consumers. Indeed, AT&T alone plans to launch twelve new Android devices in 2011.

In short, competition among service providers, handset manufacturers, and operating system developers is strong and mutually reinforcing. All of these firms are constantly creating new services and products—and forming new strategic partnerships and alliances to market those products and services—to keep ahead of their competitors and deliver the most compelling products to consumers.

89 Andrew Kameka, Android has 150k apps, 350k daily activations, and more notes from Eric Schmidt’s MWC keynote, Androinica (Feb. 15, 2011), http://androinica.com/2011/02/android-has-150k-apps-350k-daily-activations-and-more-notes-from-eric-schmidts-mwc-keynote/.
B. The Marketplace for Wireless Services Will Remain Highly Competitive Following This Transaction.

As indicated by all of these market characteristics—falling prices, accelerating output, technological dynamism, surging investment, ubiquitous advertising wars, and multi-dimensional competition—the U.S. wireless marketplace ranks among the most competitive in the U.S. economy. It will remain so after this merger. We discuss that issue in extensive detail below, but several points warrant emphasis at the outset.

First, approximately three-quarters of Americans live in areas where they may choose among at least five facilities-based wireless providers.\(^9\) That figure, which the Commission calculated last year, does not include mobile virtual network operators (“MVNOs”) such as TracFone. Nor does it include new facilities-based entrants such as LightSquared, which has struck deals with Best Buy and others to use its substantial spectrum holdings to serve potentially millions of customers.

Second, T-Mobile USA and AT&T are not close competitors, and other providers already fill—or could easily move to fill—the competitive role T-Mobile USA occupies today. For example, Sprint has re-emerged with a combination of first-to-market 4G services, attractive devices, and aggressive pricing. MetroPCS and Leap offer inexpensive, no-contract service with nationwide coverage; have rapidly expanded into markets covering (between them) more than 200 million people; and have won dramatic gains in total subscribership. See Carlton Decl. ¶ 102; Christopher Decl. ¶¶ 60-62. According to AT&T’s estimates, MetroPCS has now surpassed T-Mobile USA in subscribership in many major markets, including

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**Information.** See Christopher Decl. ¶ 61. These new mavericks not only appeal to the value-conscious consumers that have long constituted T-Mobile USA’s base, but have aggressively rolled out new smartphone services. For example, the first LTE provider in the United States was not Verizon, but MetroPCS.

In contrast, T-Mobile USA is—in the words of DT Senior Vice President Thorsten Langheim—“struggling to remain a strong competitor in the wireless marketplace. Despite marketing efforts to improve its standing, T-Mobile USA has steadily lost market share . . . over the past two years.” Langheim Decl. ¶ 11. T-Mobile USA has faltered because, among its other challenges, it occupies an uncomfortable position between higher-end providers and value competitors. Christopher Decl. ¶ 46. On the one hand, it has been undersold by MetroPCS, Leap, and others in the provision of budget-oriented services. Id. And on the other hand, it “lacks a clear path to deployment of LTE that is necessary for it to compete robustly in the U.S. longer term,” particularly for high-end mobile broadband services. Langheim Decl. ¶ 11. In Professor Carlton’s words, “T-Mobile’s competitive position is probably best summarized in J.P. Morgan’s recent comment that T-Mobile is ‘struggling for relevance.’”92 For all of these reasons, it is not a significant competitive constraint on AT&T. See Christopher Decl. ¶¶ 23-27.

**Third,** as Professor Carlton further explains in his attached declaration, an economically sensible way to promote greater output, higher quality, and lower prices in capacity-constrained industries such as this one is to permit an efficient capacity-enhancing combination. Carlton Decl. ¶ 158. Blocking such combinations would have the opposite effects: lower output, worse quality, and higher prices. As Chairman Genachowski recently observed, “[i]f we do nothing in

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the face of the looming spectrum crunch, many consumers will face higher prices—as the market is forced to respond to supply and demand.

Although the Chairman was addressing the need to free up more spectrum through auctions in the long term, his reasoning applies equally to this transaction, which, as discussed, creates the functional equivalent of more spectrum.

1. The Commission Should Adhere to Its Current Market-Definition Conclusions, but the Existing Screens Should Be Modified to Reflect New Sources of Commercially Available Spectrum.

The Commission begins its competitive analysis of wireless transactions by defining the appropriate product market, geographic markets, and market participants. As to the first issue, the Commission “treat[s] the provision of mobile broadband services using more recent and advanced networks (e.g., 3G, 4G) and the provision of mobile voice and data services over earlier generations of wireless networks as part of a combined mobile telephony/broadband services market, rather than separate markets,” now that the industry is “transitioning from the provision of interconnected mobile voice and add-on mobile data services over legacy wireless networks to the provision of mobile voice and data services over wireless broadband networks.”

Second, the Commission has repeatedly concluded that the geographic market is local rather than national and consists of CMAs or, alternatively, “Component Economic Areas (‘CEAs’).” As the Commission has explained, “the geographic market is the area within which

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93 Genachowski CTIA Remarks, at 9.
95 See Verizon/ALLTEL Order, 23 FCC Rcd at 17471 ¶ 49; Memorandum Opinion and Order and Declaratory Ruling, Applications of Cellco Partnership D/B/A Verizon Wireless and
a consumer is most likely to shop for mobile telephony/broadband services,” and “[f]or most individuals, this market will be a local area, as opposed to a larger regional or nationwide area.”96 The Department of Justice has likewise concluded that mobile services are offered in “numerous local geographic markets,” given that, among other considerations, customers generally choose among providers that market services “where they live, work, and travel on a regular basis” and “[t]he number and identity of . . . providers varies among geographic areas[].”97

AT&T’s own market research confirms these conclusions. The great majority of AT&T’s new customers—some [Begin Confidential Information] percent—purchased their wireless service locally, either through a company-owned store, local outlets of chain stores such as Radio Shack, Best Buy, Target, AT&T agent stores, or other local retail stores. See Christopher Decl. ¶ 12. Independent studies reach similar conclusions about the industry at large: local sales (at a store or kiosk) account for

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96 Verizon/ALLTEL Order, 23 FCC Rcd at 17472 ¶ 52.
approximately [Begin Confidential Information] [End Confidential Information] percent of industry-wide total sales and, indeed, approximately [Begin Confidential Information] [End Confidential Information] percent of MetroPCS’s sales. Id.

Further underscoring the local nature of this marketplace, AT&T has tailored its sales operations to respond quickly and distinctively to local market conditions. AT&T Mobility’s Chief Marketing Officer, David Christopher, explains:

AT&T has divided the country into twenty-seven separate geographic regions, each led by a vice president/general manager (“VP/GM”) who is responsible for operations of the [AT&T] stores, our relationships with AT&T’s local dealer agents at the local level, and all other sales activities within their respective markets. In fact, the annual performance of these VP/GMs is evaluated, in part, by the profits and losses associated with all sales activity within their markets. They strive to meet unique local customer demand by working with our headquarters marketing team to run local advertising pointing out the advantages of AT&T service in a specific local area, by direct marketing campaigns, and by offering local promotions on handsets and peripheral devices. To further support this effort, our direct mail direct response . . . and online marketing and sales efforts are capable of making targeted offers to customers in specific local market areas.

Id. ¶ 13. Similarly, because T-Mobile USA’s own experience confirms that customers prefer to make purchasing decisions locally, it recently reorganized its sales staff by local region to address local market conditions most effectively. In any event, as Professor Carlton concludes, this transaction will create such output-expanding, pro-consumer synergies that it would warrant approval even if competition were (improperly) analyzed at the national level. Carlton Decl. ¶¶ 8, 12.

Third, the Commission has concluded that the market participants for purposes of its competitive analysis include “facilities-based” entities providing mobile telephony/broadband
services. Those participants include every provider that serves customers within a given geographic market, irrespective of how many other geographic markets that provider also serves. As discussed below, a number of major U.S. providers are called “regional” in the narrow sense that they have networks and recruit customers in only a subset of the nation’s hundreds of geographic markets. Key providers in this category have nonetheless entered into wholesale roaming agreements throughout other markets in order to offer nationwide service plans: i.e., seamless coverage in most or all population centers throughout the United States, generally without retail roaming fees. See Carlton Decl. ¶¶ 9, 102, 104, 113, 115; Christopher Decl. ¶ 8, 63. These providers compete in the same product market as carriers that market nationally, even though they compete in only some of the local geographic markets. See Carlton Decl. ¶¶ 112-115; Christopher Decl. ¶ 9.

The Commission next applies a two-part initial “screen” to separate those local markets where, without further analysis, it is clear that the transaction would result in no potential competitive harm, from those local markets where further competitive analysis is required to determine whether the transaction would promote or harm consumer welfare.

HHI Screen. The first part of the screen considers changes in market concentration in the provision of mobile telephony/broadband services as a result of the proposed transaction, and is based on the size of the post-transaction Herfindahl-Hirschman Index (“HHI”) of market concentration and the change in the HHI. Under the analysis used in recent Commission orders,

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98 See, e.g., Verizon /ALLTEL Order, 23 FCC Rcd at 17480-81 ¶ 71.
99 See also Cingular/AT&T Wireless Order, 19 FCC Rcd at 21564 ¶ 94 (including within relevant product market all firms “able to offer nationwide service,” including “nationwide carriers” and “regional firms,” but excluding providers “unable to offer national mobile telephony services”).
a market is subject to further scrutiny if, based on the NRUF data, its post-transaction HHI (1) would be both greater than 2800 and increase by at least 100, or (2) would increase by at least 250. As discussed in detail below, this merger, even in the markets flagged by the HHI screen, poses no substantial competitive concern because, in addition to the merger’s output-enhancing effect, the combined company will face vigorous competition from diverse providers and, in any event, T-Mobile USA is not a particularly close competitor to AT&T.

Spectrum screen. The second part of the market-by-market screen examines the input market for spectrum available for the provision of mobile telephony/broadband services. In past transactions—which (as discussed below) predated the deployment of new spectrum for mobile broadband purposes—the Commission designed the spectrum screen to include spectrum bands designated for cellular, PCS, Specialized Mobile Radio (“SMR”), and 700 MHz services, as well as AWS-1 and 55.5 MHz of Broadband Radio Service (“BRS”) spectrum where available. The screen ranges from 95 MHz to 145 MHz, depending on the availability of AWS-1 and BRS. If the Commission used this approach here, despite its obsolescence, 202 CMAs would be flagged by the spectrum screen and subject to further analysis. Spectrum aggregation data is provided in Appendix A. Again, this screen is only the starting point in the Commission’s analysis, and the remainder of that analysis confirms that the overwhelming majority of the markets at issue will retain both several strong competitors—indeed, at least four in more than 80

100 See, e.g., Verizon /ALLTEL Order, 23 FCC Rcd at 17483 ¶ 78.

101 Id.

102 The Commission has asked AT&T in pending spectrum-transfer proceedings to provide data concerning its holdings of the 25 MHz of WCS spectrum, which a recent Commission order intended to make usable for mobile broadband services. See Report and Order and Second Report and Order, Amendment of Part 27 of the Comm ’n’s Rules To Govern the Operation of Wireless Commc ’ns Servs. in the 2.3 GHz Band, 25 FCC Rcd 11710 (2010) (recons. filed). Those data are included in Appendix A.
percent of these CMAs—and ample spectrum resources to support further growth. Appendices B and C provide further details on competitive conditions in these CMAs.

In any event, the current spectrum screen substantially overstates potential threats to competition because it excludes much of the spectrum currently available for mobile telephony and broadband services. The Commission should now update this analysis in two respects. First, it should include 90 MHz of MSS/ATC spectrum within the screen because, as the Commission itself found just this month, MSS/ATC providers will soon “provide mobile services similar to those provided by [other] mobile providers” and should thus be considered “in the context of our existing competitive analysis framework for mobile telephony/broadband services.” Indeed, LightSquared plans to begin the rollout of wholesale mobile broadband service using MSS/ATC spectrum in 2011, as soon as the Commission resolves GPS interference issues, and its network is expected to encompass 100 million Americans by year-end 2012, 145 million by year-end 2013, and 260 million by year-end 2015. Second, the Commission should include all 194 MHz of BRS/EBS spectrum (not just the 55.5 MHz it has considered before) because the BRS/EBS transition is complete in most areas of the country, and because Clearwire and its partners (including Sprint and Time Warner Cable) are making widespread use of WiMAX service throughout the country, now passing more than 100 million people.

In short, these broader spectrum categories easily “meet the criteria for suitable spectrum within two years” and are thus appropriately considered “a relevant input” for purposes of the

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Commission’s spectrum screen. AT&T has addressed these points in detail in its public interest statement in the AT&T-Qualcomm proceeding and incorporates that discussion by reference here.

2. The Combined Company Will Face Strong Competition From Many Sources.

Whatever the results of the initial screens, the Commission’s merger analysis ultimately asks whether a transaction will give rise to a substantial prospect of either anticompetitive coordination or anticompetitive unilateral effects. The nature and extent of competition in U.S. wireless markets foreclose either concern here, as discussed below. We begin by describing the strong competitors that the combined company will continue to face after this transaction is complete. These include not only providers that market service to customers living in most U.S. markets, but also “regional” providers that market only where they operate networks. Again, providers in both categories offer their customers nationwide service plans.

Verizon Wireless is the nation’s largest wireless provider with a leading reputation for high-quality network performance, and it competes with AT&T in almost every local market. It has an exceedingly robust spectrum position. In addition to its other 700 MHz band holdings, Verizon Wireless has 22 MHz of upper 700 MHz band spectrum nationwide for its ongoing LTE deployment.

Verizon Wireless often targets AT&T in its commercials and asserts that Verizon’s network is superior to AT&T’s more congested counterpart. Christopher Decl. ¶ 28. Verizon is

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105 Verizon/ALLTEL Order, 23 FCC Rcd at 17477 ¶ 62.
106 Public Interest Statement, Application of AT&T Mobility Spectrum LLC and Qualcomm Inc. for Consent to Assign Eleven Lower 700 MHz Band Licenses, WT Docket No. 11-18, at 21-28 (Jan. 13, 2011).
using its nationwide 700 MHz footprint to aggressively deploy 4G LTE, which it says will cover two-thirds of Americans by mid-2012.\footnote{Press Release, Verizon Wireless, Verizon Wireless Unveils Suite of 4G LTE Smartphones, Tablets, a Mi-Fi, Hotspot and Notebooks (Jan. 6, 2011), http://news.vzw.com/news/2011/01/pr2011-01-06n.html.} Verizon also states that it will offer a suite of 10 devices for its 4G LTE network that will be available by mid-2011.\footnote{Id.} Verizon claims to face no systemic constraints on its network capacity. Indeed, in the wake of this transaction’s announcement, Verizon Wireless’s CEO reaffirmed that his company is “extremely confident” it has the “spectrum position” it needs.\footnote{Id. at 96-100; Christopher Decl. ¶ 30.}

\textbf{Sprint} has reversed recent trends and, in 2010, achieved successes that CEO Dan Hesse called “unprecedented in the history of the U.S. wireless industry.”\footnote{Press Release, Sprint Nextel Reports Fourth Quarter and Full Year 2010 Results, at 2 (Feb. 10, 2011), http://newsroom.sprint.com/article_display.cfm?article_id=1796.} Sprint added nearly 1.8 million net subscribers in 2010, including nearly 1.1 million during the fourth quarter of 2010 alone, for a total of approximately 50 million.\footnote{Id. at 1, 11.} Along with Verizon Wireless and U.S. Cellular, Sprint fared well in Consumer Reports’s recent survey of customer satisfaction, and it is now rapidly increasing market share with its 4G service. \textit{See} Carlton Decl. ¶¶ 96-100; Christopher Decl. ¶ 30. Sprint’s success contrasts sharply with T-Mobile USA’s own recent performance:

\begin{quote}
\end{quote}
Sprint’s resurgence is attributable to several factors. First, it was the first to market with a 4G product. In partnership with Clearwire (in which it has a majority ownership stake), Sprint is aggressively rolling out its 4G/WiMAX network, which now reaches well more than 100 million people.\footnote{Sprint recently reached a new wholesale agreement with Clearwire for access to Clearwire’s 4G network. See Roger Cheng, \textit{Sprint to Pump $1 Billion Into Clearwire}, Wall St. J. (Apr. 19, 2011). According to Clearwire’s interim Chief Executive, John Stanton, the agreement reaffirms the companies’ relationship, as well as the strength of their combined spectrum position. \textit{Id.}} Sprint touted these leading-edge network capabilities to consumers in aggressive marketing campaigns throughout 2010, vigorously promoting “the First 4G Phone.”\footnote{E.g., Sprint, \textit{Sprint HTC EVO™ 4G}, http://now.sprint.com/firsts/evo4g/#/evo4g/} And Sprint appears to have delivered on its network performance promises to customers, [Begin Confidential Information]\footnote{Roger Cheng, \textit{Sprint CEO Touts 4G Devices, “Not Faux G,”} WSJ Blog (Mar. 22, 2011), http://blogs.wsj.com/digits/2011/03/22/sprint-ceo-touts-4g-devices-not-faux-g/} [End Confidential Information]. Christopher Decl. ¶ 30. Indeed, Sprint CEO Dan Hesse has taken aim at AT&T’s HSPA+ products by touting Sprint’s services as “4G, not faux G.”\footnote{Roger Cheng, \textit{Sprint CEO Touts 4G Devices, “Not Faux G,”} WSJ Blog (Mar. 22, 2011), http://blogs.wsj.com/digits/2011/03/22/sprint-ceo-touts-4g-devices-not-faux-g/}
Second, Sprint has achieved this early 4G success in part because of its exceptional spectrum position, which is far stronger than AT&T’s today. As Hesse explains, “[w]hen you combine Sprint’s spectrum position with Clearwire’s spectrum position it put[s] us in the strongest place for the future.”\textsuperscript{115} He added: “We have the spectrum resources where we could add LTE if we choose to do that, on top of the WiMAX network. The beauty of having a lot of spectrum is we have a lot of flexibility.”\textsuperscript{116} A senior Sprint executive recently announced that Sprint might well use that flexibility to “deploy LTE as part of its Network Vision network modernization project . . . , with nationwide LTE coverage by year-end 2013.”\textsuperscript{117}

Third, Sprint has accompanied this strong network performance with its highly popular suite of award-winning Android handsets, including the HTC EVO 4G, HTC EVO Shift 4G, and Samsung Epic 4G. Christopher Decl. ¶ 34. Sprint is also reportedly gearing up to include eighteen 4G-enabled devices within its portfolio by the end of this year. \textit{Id.}

\textsuperscript{115} \textit{Hesse Keynote, supra.} Clearwire has an average spectrum position of approximately 140 MHz across its national spectrum footprint and of approximately 160 MHz across the 100 largest markets. Clearwire Corporation, Annual Report (2010 Form 10-K), at 3 (Feb. 22, 2011). Combined with its own spectrum, this gives Sprint access to an average of more than 190 MHz nationwide, \textit{Fourteenth Wireless Report}, 25 FCC Rcd at 11569, Table 26 (showing Sprint with average holdings of 52.5 MHz) and more than 260 MHz in some markets. \textit{See, e.g., Public Interest Statement, Sprint Nextel Corporation and Clearwire Corporation, WT Docket 08-94, Appx. D, at 48, 52 (June 1, 2008) (showing that, in Dallas County, Texas, Clearwire has 186 MHz of 2.5 GHz spectrum and Sprint has 77.75 MHz of non-2.5 GHz spectrum).}

\textsuperscript{116} \textit{Sprint’s 4G Move, supra; see also} Marguerite Reardon, \textit{CTIA Day 1: Where’s T-Mobile; talk of spectrum crunch}, CNET News (Mar. 22, 2011), http://reviews.cnet.com/8301-12261_7-20046096-10356022.html#ixzz1lfWvLnt8 (quoting Sprint’s Senior Vice President of Networks, Bob Azzi: “[w]e are well positioned with Clearwire in terms of spectrum[,]”); Scott Cendrowski, \textit{Why Sprint stock can double}, CNNMoney.com (Mar. 25, 2011) (quoting Greenlight Capital’s David Einhorn: because “Sprint has more than three times the spectrum for 4G than Verizon or AT&T,” it could have “a huge advantage going forward”), http://money.cnn.com/2011/03/24/pf/sprint_stock_comeback.fortune/?section=magazines_fortune.

Fourth, Sprint has lured subscribers away from its rivals not only with faster data speeds, but also with aggressively priced unlimited data plans. For example, Sprint targeted AT&T’s iPhone users when highlighting a substantial price difference between AT&T’s plans and Sprint’s $69.99 Everything unlimited data plan. Christopher Decl. ¶¶ 41-42. Overall, Sprint’s strategy appears to have succeeded. In every month since October 2010, [Begin Confidential Information]

[End Confidential Information]. Id. ¶ 43.

MetroPCS and Leap (discussed below) have now become the industry’s leading “maverick[s],” a term that does not apply to providers that, like T-Mobile USA, are losing share. See Carlton Decl. ¶ 154. MetroPCS and Leap each offer unlimited (“all you can eat”) voice and data plans to value-oriented customers at low rates and on a no-contract basis. They are taking an “increasing percentage” of subscribers from “the postpaid contract world,”118 prompting other major providers, including AT&T, to make competitive responses. See Christopher Decl. ¶¶ 48-49, 59-62. Indeed, MetroPCS and Leap are now mentioned in the same breath with AT&T, Verizon Wireless, Sprint, and T-Mobile USA.119 And in a growing number of markets, these providers—and MetroPCS in particular—are estimated to have surpassed T-Mobile USA in both

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118 Final Transcript, PCS—MetroPCS Communications, Inc. at Morgan Stanley Technology, Media & Telecom Conference, at 8 (Mar. 3, 2011) (“Metro PCS Morgan Stanley Conference Transcript”) (MetroPCS CFO Braxton Carter: “And we have seen [an] increasing percentage of our gross adds coming from the lower part of the postpaid contract world. I think, Tom on our year-end call mentioned roughly a third of our customers are coming from that. And I think it’s a natural evolution.”); see also Carlton Decl. ¶ 109.

119 For example, Sprint CFO Bob Brust recently remarked: “Retail is a tough place. I mean, we have got a lot of retail competition out there, and for [Clearwire] to jump in to that may not be the easiest thing in the world. You’ve got Verizon, and AT&T and us and T-Mobile, and Leap and Metro and this, that, and everything else, so that’s a long putt.” Final Transcript, S—Sprint Nextel Corporation at Bank of America Merrill Lynch Media, Communications & Entertainment Conference, at 12 (Sept. 15, 2010) (emphasis added).
subscriber share and competitive significance. They can quickly fill any market gap T-Mobile USA leaves upon the completion of this transaction.

Since 2002, MetroPCS has grown from roughly 500,000 subscribers to approximately 8.1 million subscribers today—a sixteen-fold increase in nine years. See Christopher Decl. ¶ 60. In September 2008, MetroPCS signed a long-term mutual roaming agreement with Leap and now offers service for a flat monthly fee, without retail roaming charges, in areas covering approximately 90 percent of the U.S. population.120 In the words of CFO Braxton Carter, MetroPCS has “a nationwide footprint . . . that really puts us on par from a footprint standpoint on a combined network that is actually a tad bit larger than the Sprint network”:121


MetroPCS’s success is equally striking when one considers its share of subscribers in the particular local markets it has entered. According to AT&T’s estimates, MetroPCS has won approximately a [Begin Confidential Information] [End Confidential Information] percent share of the Miami market and double-digit shares of such major markets as [Begin Confidential Information] [End Confidential Information].

[End Confidential Information]. Christopher Decl. ¶ 61.122 And it is rapidly expanding into new markets, including New York, Los Angeles, Boston, and Philadelphia. Id. ¶¶ 54, 61. AT&T’s estimates further indicate that MetroPCS’s share exceeds that of T-Mobile USA in many markets, including [Begin Confidential Information] [End Confidential Information].

122 The market-share discussion in this section reflect a provider’s share of subscribers within the relevant “designated market areas” (“DMAs”).
MetroPCS has achieved this success because of, among other considerations, its low prices and formidable local distribution network. See id. ¶¶ 13, 61.

Although MetroPCS has traditionally focused on selling inexpensive voice plans to value-oriented customers, it has now aggressively entered the 4G race; indeed, it was the first provider to offer a commercial LTE service. It now offers LTE in at least the following markets: Atlanta, Jacksonville, Miami, Orlando, Boston, Dallas-Fort Worth, Detroit, Las Vegas, Los Angeles, New York City, Philadelphia, Sacramento, and San Francisco. Christopher Decl. ¶ 54. According to MetroPCS CEO Roger Linquist, the company “will finish ‘phase one’ of its LTE buildout by the first quarter of [2011], and will then cover most all of the carrier’s customers with the 4G technology . . . . ‘[P]hase two’ of MetroPCS’ LTE buildout will be completed by the end of next year, and will involve putting LTE onto all of the carrier's 11,000 cell sites.”

MetroPCS recently rolled out new smartphone plans that provide access to its 4G network, which one analyst has called “the best value for data at the high-end.” In CFO Carter’s words, “[t]here is a tsunami of Androids coming through[,]” driving Metro’s “heavy users to . . . higher ARPU rate plans.” He added in early March 2011 that, even though “[t]he Androids have been out a little while longer than two months now, . . . a third of our sales [have been] the Androids handsets” so far this year. CEO Linquist recently reaffirmed his

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125 Metro PCS Morgan Stanley Conference Transcript, at 2.

126 Id. at 3.
company’s commitment to this smartphone segment, observing that the bar and clam phones are “going the way of the dinosaurs.” And because most of MetroPCS’s smartphone customers will use spectrally efficient LTE services, the company has the spectrum resources it needs to provide high-quality service to its growing 4G customer base, as MetroPCS told the Commission earlier this year.\footnote{Final Transcript, \textit{PCS – MetroPCS Communications, Inc. at Credit Suisse Group Convergence Conference}, at 2 (Mar. 9, 2011).}

\textit{Leap}, which operates under the brand name “Cricket,” markets all-you-can-eat plans to customers in 135 CMAs covering 102 million people, has spectrum in hundreds of additional CMAs, and has announced a variety of potential expansion plans. Carlton Decl. ¶ 108. Like MetroPCS, with which it has a comprehensive long-term roaming agreement, Leap offers nationwide service:

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{cricket_coverage_map.png}
\caption{Cricket's nationwide coverage.}
\end{figure}

\footnote{See Letter from Carl Northrop, Counsel to MetroPCS, to Chairman Genachowski, GN Docket No. 09-191, at 6-7 (Feb. 14, 2011).}
See Christopher Decl. ¶ 52. Leap has expanded its subscriber base from 1.47 million to 5.5 million in seven years. Christopher Decl. ¶ 62.\(^{129}\) According to AT&T estimates, Leap has achieved a strong presence in such markets as [Begin Confidential Information]

[End Confidential Information]. Carlton Decl. ¶ 108. In [Begin Confidential Information]

[End Confidential Information]. Leap’s shares are estimated to exceed T-Mobile USA’s. See id.

Leap has traditionally served value-oriented customers and continues targeting its advertising campaigns at consumers seeking lower-priced alternatives to AT&T and Verizon:

Like MetroPCS, Leap has also recently branched out into smartphone services. Leap offers 3G service in all of its markets to approximately 92 million covered POPs, and its MVNO arrangement with Sprint expands 3G coverage to over 280 million POPs.\(^{130}\) Ten percent of Leap’s customer base had already moved to smartphones by year-end 2010. Smartphones—including Android, Windows, and Blackberry devices—now account for 40% of Leap’s new

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handset sales.131 CEO Doug Hutcheson explains: “Our business progress demonstrates how
data services are increasingly important to our customers, as evidenced by our customers’
significant uptake of smartphones and data-focused, higher-ARPU service plans.”132 He adds:
“We have now got the devices, the service plans, and the nationwide 3G coverage our customers
want. . . . The result is a significant increase in customer lifetime value which validates that
we’re making the right investments in the right places.”133 As with its other services, Leap
emphasizes value in promoting its products against their more expensive AT&T and Verizon
counterparts—advertising, for example, “All the BlackBerry” at “Half the Cost of AT&T and
Verizon” with “No Signed Contracts” and “No Fees.”134

Finally, Leap has begun LTE testing and, in March 2011, accelerated its 4G deployment
plans by reaching a major spectrum arrangement with LightSquared to “supplement the LTE
coverage that Cricket plans to deploy.”135 Leap currently plans to launch a commercial 4G trial
in late 2011.136

131 Mike Dano, Leap plans Wi-Fi-only ViewSonic Android tablet, more Android
132 Press Release, Cricket Enters into 4G Roaming Agreement with LightSquared (Mar. 22,
133 LEAP – Q4 2010 Leap Wireless International Earnings Conference Call, at 2 (Feb. 22,
2011).
curve?CMP=AFC-Google09.
U.S. Cellular: This highly successful provider serves approximately 6.1 million customers in 26 U.S. states. Like the other providers discussed above, it offers nationwide coverage:

According to AT&T’s internal estimates, U.S. Cellular has double-digit and sometimes leading shares of many markets in which T-Mobile USA and AT&T also compete, including [Begin Confidential Information] Christopher Decl. ¶ 65. U.S. Cellular provides a range of 2G and 3G services and offers its customers nationwide 3G data roaming. It also offers a range of state-of-the-art smartphones, including the BlackBerry Bold and a variety of Android phones. In November 2010, U.S. Cellular announced that it


would launch an LTE test market in late 2011 and was planning for full-scale LTE deployment in 2012.139

Strong additional competition is also provided by more regional competitors offering nationwide service plans. These regional competitors include, among many others:

**Cellular South** serves approximately 880,000 subscribers in at least six states: Mississippi, Alabama, Tennessee, Florida, Louisiana, and Arkansas. Carlton Decl. ¶ 114. In February 2011, it launched a “nationwide talk unlimited plan” for $59.99. CellSouth’s website has a page designed specifically to attract customers away from AT&T, advertising: “From coast to coast, we’ve handpicked the best networks to give you better coverage in far more places than AT&T,” and “Our Smartphone Unlimited Plan is a first-of-its-kind value! Get unlimited talk, text, email, and web at a price that saves you over $40/month compared to AT&T or Verizon.”140 And its marketing materials further tout CellSouth’s “[n]ationwide [d]ata [c]overage,” most of it (the areas colored orange) in 3G:

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Similarly, *Allied Wireless*—a successor to Alltel—serves more than 800,000 subscribers in Georgia, North Carolina, South Carolina, Illinois, Ohio, and Idaho.\(^{141}\) *Cincinnati Bell*, a significant competitor in southwestern Ohio, has an estimated market share [Begin Confidential Information] \[Christopher Decl. ¶ 67.\] [End Confidential Information]. *Cox Communications* is aggressively promoting its “Unbelievably Fair” (SM) wireless plans to its existing cable TV subscribers in a growing number of markets, including parts of California, Virginia, Oklahoma, and Nebraska. Cox will soon expand into Cleveland and parts of New England and “plans to launch wireless service across 50 percent of its cable footprint by year-end.”\(^{142}\) Although Cox launched in

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existing markets through the use of Sprint’s spectrum, it is also conducting trials of 4G LTE technology on its own AWS and 700 MHz spectrum, for which it spent more than half a billion dollars at auction.\textsuperscript{143}

Finally, in addition to these retail competitors, additional providers are using strong spectrum positions to deploy 4G technology and offer nationwide wholesale capacity to existing competitors and new entrants. These include:

\textit{Clearwire}, owned by a consortium of Sprint, Comcast, Time Warner Cable, Intel, Google, and Bright House Networks, is the nation’s largest holder of spectrum. Using spectrum in the 2.5-2.6 GHz bands, Clearwire is both a retailer of 4G data services (under the “Clear” brand), with more than a million retail customers, and a supplier of wholesale inputs to 4G WiMAX retail providers such as Sprint, Time Warner Cable, and Comcast.\textsuperscript{144} It also recently struck a wholesale wireless deal with Best Buy, under which the retailer will use Clearwire’s spectrum to market 4G services (“Best Buy Connect”) for $45 per month to customers at Best


Buy’s retail outlets nationwide, and a new wholesale agreement with Sprint that, according to Clearwire’s CEO, “provides us with the capital to operate efficiently over the next couple of years” and “to plan for our expansion.”

Clearwire is also conducting LTE trials, and CTO John Saw reports that those trials are producing “mind blowing” results, including “60-90 Mbps of user data rate while you’re driving [at] fifty miles an hour.”

*LightSquared*—the successor to SkyTerra—will begin deploying a nationwide 4G LTE network in the second half of 2011 (upon resolution of GPS interference issues) and “could vigorously compete with AT&T and Verizon in the market for 4G LTE service.” It expects to reach 100 million people by year-end 2012, 145 million by year-end 2013, and 260 million by year-end 2015. LightSquared has both strong financial backing from Harbinger Capital Partners and, in its words, “owns valuable high quality spectrum assets, including 59 MHz of nationwide ubiquitous spectrum in an advantageous frequency position.” As discussed, LightSquared has entered into a long-term 4G roaming agreement with Leap. It also recently announced an agreement to lease spectrum to Open Range, a wireless broadband provider in

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rural communities.151 And like Clearwire, it also has entered into a wholesale agreement with
Best Buy. CEO Sanjiv Ahuja recently disclosed that the company is negotiating spectrum
contracts with 15 additional companies.152

The arrangements that spectrum wholesalers (such as Clearwire and LightSquared) have
struck with retailers (like Best Buy) and cable companies (like Comcast and Time Warner Cable)
illustrate the growing competitive role of MVNOs in the mobile marketplace. See generally
Carlton Decl. ¶¶ 117-119. In the U.S., an increasing number of non-facilities-based MVNOs
offer service to tens of millions of subscribers.153 While MVNOs generally compete directly
with facilities-based providers on price and differentiate themselves through branding, recent
market developments make them much more significant as competitive threats.154 Globally,
moreover, MVNOs are already recognized as competitors to facilities-based providers. For
example, in its recent T-Mobile/Orange decision, the European Commission took MVNOs into
account when analyzing the state of competition in the mobile communications market.155 Under
the circumstances, the FCC, too, should account for MVNOs within its competitive analysis.

151 Press Release, LightSquared and Open Range Partner to Expand Deployment of Nation’s
First 4G LTE Wireless Broadband and Satellite Network to Rural American Communities (Mar.

152 Phil Goldstein, LightSquared CEO: We’re in contract negotiations with 15 companies,

153 Letter from Christopher Guttman-McCabe, Vice President of Regulatory Affairs, CTIA –
The Wireless Association, to Marlene Dortch, Secretary, FCC, WT Docket No. 09-66, GN

154 See id.

155 Case No. COMP/M.5650 – T-Mobile/Orange, EUR-Lex 32010M5650, at 9 (Mar. 1,
2010), http://ec.europa.eu/competition/mergers/cases/decisions/M5650_20100301_20212
_247214_EN.pdf.
3. **The Transaction Will Not Harm Competition.**

The Commission analyzes horizontal mergers to determine whether they will create one of two types of anticompetitive harm—either “coordinated interaction” or “unilateral effects.”156 This transaction presents neither concern.

**a) The transaction poses no prospect of anticompetitive coordination.**

This merger presents no plausible basis for concern about anticompetitive coordination. Such concerns typically arise in markets with commodity products, limited (and highly transparent) dimensions of competition, limited growth, and few or no “disruptive” players. See Carlton Decl. ¶¶ 146-148.157 As Professor Carlton discusses in his attached declaration, wireless markets have none of those features.

First, wireless markets are characterized by many heterogeneous firms with many different service plans and diverse market positions. These providers compete on multiple dimensions: not only on absolute price levels, but also on highly variable price structures (larger vs. smaller buckets, wireless-to-wireless minutes free, etc.), service quality (speed, reliability, network coverage, etc.), operating systems, and devices. See Carlton Decl. ¶¶ 149-152. Indeed, as the popularity of the iPhone and Android platforms reveals, wireless providers now compete on innovation as well. See Donovan Decl. ¶¶ 4, 14. By itself, the complexity and non-

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156 “Unilateral effects are those that result when a merged firm finds it profitable to alter its behavior by increasing prices or reducing output,” whereas “[c]oordinated interaction consists of actions by a group of firms that are profitable for each of the firms involved only because the other firms react by accommodating these actions rather than attempting to undercut them.” Verizon/ALLTEL Order, 23 FCC Rcd at 17484 ¶ 82 nn.298, 299.

157 See also Sprint/Nextel Order, 20 FCC Rcd at 13995 ¶ 70 (factors include “the number of firms, transparency of information, firm and product homogeneity, and the presence of mavericks”); Cingular/AT&T Wireless Order, 19 FCC Rcd at 21580-86 ¶¶ 150-164.
transparency of this competitive landscape would present formidable obstacles to any effective coordination effort. See Carlton Decl. ¶¶ 149-152.

Second, wireless markets are characterized by both strong demand and rapid technological flux. Those conditions would make coordination among firms formidably difficult, given that every provider has strong individual incentives to be an early provider of new services and to serve rapidly growing demand. See Carlton Decl. ¶ 151.

Third, wireless markets are highly prone to disruption by mavericks. For example, upstarts such as MetroPCS and Leap have succeeded—as shown by their dramatic subscriber growth—because they have effectively distinguished themselves from Verizon, AT&T, and others on (for example) the basis of price. And Sprint can claim to have added nearly two million net subscribers in 2010 because it effectively marketed its value propositions plus its groundbreaking first-in-time 4G service and devices. Such widespread differentiation among providers and services would further impede any coordination effort. See Carlton Decl. ¶¶ 148-152.

Finally, even by itself, the geographically local nature of wireless markets would also preclude any coordination arrangement. Local markets vary tremendously in the number and identity of competitors, as discussed above. Major providers would find it difficult, if not impossible, to “coordinate” their competitive activities without triggering disruptive responses from various upstarts in local markets. See Carlton Decl. ¶ 152.

b) *The transaction poses no prospect of anticompetitive unilateral effects.*

There is also no basis for concern that the transaction will present unilateral anticompetitive effects—*i.e.*, “increased prices or reduced output” as compared to the
Such concerns are most substantial when (1) the pre-merger companies are not capacity constrained and thus, in the absence of the merger, would find it profitable to add more customers at existing price levels, and (2) the merging brands are close substitutes and exert strong mutual competitive pressure. Carlton Decl. ¶¶ 137-140. Neither condition is present here, and typical “unilateral effects” concerns are thus inapplicable. Id.

First, the transaction will produce greater output and lower prices than would exist in the absence of the transaction precisely because it will enable these two companies to meet otherwise intractable capacity constraints. Carlton Decl. ¶ 133. Firms like AT&T that are operating at or near capacity have little or no incentive to cut prices in order to attract new subscribers. Instead, even in highly competitive markets, such firms have the incentive to ration available capacity through a variety of means, including the use of usage-sensitive pricing to discourage high customer demand for available capacity. See Christopher Decl. ¶ 4. For example, AT&T instituted tiered pricing for its smartphone services in 2010 to help promote that capacity-conserving objective. Id. Alternatively, a provider facing severe capacity constraints could throttle back on high usage or simply allow its network to become increasingly congested. In practical effect, either outcome would raise the quality-adjusted price of service.

In these circumstances, the capacity increases created by this highly synergistic transaction can only benefit consumers. As Professor Carlton explains, those increases “will lower the cost of serving additional subscribers and thus create incentives to expand output and

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158 Verizon/ALLTEL Order, 23 FCC Rcd at 17484 ¶ 82 n.298.
lower prices relative to the levels expected in the absence of the transaction.” Carlton Decl. ¶ 134. This is “especially” true “in light of the large projected increases in demand for data services[.]” Id. 160 And the transaction will benefit consumers by creating incentives for greater innovation, greater output, and lower prices than would occur in the absence of this transaction. See Christopher Decl. ¶¶ 79-80; Carlton Decl. ¶ 134. In particular, it will “enable AT&T to bring to market a broader range of products and services in a more timely, efficient, and competitive manner,” thereby “challeng[ing AT&T’s] competitors to compete on the quality and pricing of their service offerings” as well. Christopher Decl. ¶ 80.

In any event, even apart from these considerations, the transaction presents few concerns about unilateral anticompetitive effects because, as discussed, T-Mobile USA does not exert strong competitive pressure on AT&T and the two brands serve substantially different groups of subscribers. Christopher Decl. ¶ 27; Carlton Decl. ¶ 149. Verizon is AT&T’s “next closest” competitor, followed by Sprint, while MetroPCS, Leap, and other regional providers are increasing competitive threats. While AT&T tracks T-Mobile USA’s activities (along with those of other providers), it does not view T-Mobile USA as a close competitor, let alone as a major competitive threat. Christopher Decl. ¶ 27. Indeed, [Begin Confidential Information]

160 As Professor Carlton further explains (Decl. at ¶¶ 141-143), the “upward pricing pressure” (“UPP”) analysis reflected in the new DoJ/FTC Horizontal Merger Guidelines is designed for markets where firms do not confront long-term capacity constraints that deprive them of normal incentives to win more customers by lowering prices. That analysis is thus an inappropriate means of evaluating the proposed merger, given the severe capacity constraints facing AT&T and T-Mobile USA and the ability of the two companies to increase their capacity and output through merger synergies.” See also Jonathan B. Baker, Merger Simulation in an Administrative Context, at 5 n.8 (Feb. 22, 2011) (“In practice, unilateral effects most commonly arise from mergers among firms that sell differentiated products without binding capacity constraints.”), http://ssrn.com/abstract=1790943.
Confidential Information]. Christopher Decl. ¶ 23.

The two companies are positioned very differently in the marketplace. For example, T-Mobile USA focuses on a [Begin Confidential Information]

[End Confidential Information] than AT&T. Carlton Decl. ¶ 89 & Table 2, ¶ 125. In a recent survey, T-Mobile USA subscribers were substantially [Begin Confidential Information]

[End Confidential Information]. Data usage also accounts for a far lower percentage of T-Mobile USA’s revenues than AT&T’s, and T-Mobile USA has a far higher share of non-contract subscribers. See Carlton Decl. ¶ 89 & Table 2, ¶ 125.

MetroPCS, Leap, and other value providers increasingly target the same value-conscious consumers as T-Mobile USA. Christopher Decl. ¶ 46; Carlton Decl. ¶ 89 & Table 2. And they are doing so more successfully because they tend to offer lower prices than T-Mobile USA for value-oriented services. Christopher Decl. ¶ 46. For example, as MetroPCS told the Commission earlier this year, “MetroPCS’ most expensive all-inclusive plan . . . is priced well below the unlimited voice and data offerings of all of MetroPCS’ major competitors,” and it cited T-Mobile USA’s comparable plan in particular as one of the “substantially more expensive” alternatives.162

In short, MetroPCS, Leap, and others can fill any gap T-Mobile USA might leave in the competition for value-conscious consumers when the transaction is completed. Indeed, as

discussed above, MetroPCS and Leap have already overtaken T-Mobile USA in a growing number of markets. This trend is likely to continue. “[A] significant driver of . . . new customers [for MetroPCS] is an influx of former contract customers . . . . “[T]hese consumers, who are typically no longer on contract, are porting their numbers to [MetroPCS] once they recognize the value proposition offered by unlimited month-to-month usage and near-nationwide coverage for an all-in flat rate. . . . [One-third] of its gross adds were former post paid subs, and . . . this share could increase as [MetroPCS] rolls out new attractive handsets.”163

The threat of new entry further minimizes any concern about unilateral effects. For example, LightSquared’s recent wholesale deal with Best Buy shows the potential for new retail competition, and LightSquared has sufficient spectrum to wholesale to additional providers such as Wal-Mart or Amazon.164 Similarly, cable companies such as Cox and Time Warner Cable both have spectrum in their own right and have entered arrangements with wholesalers such as Clearwire.165 The cable companies, which can easily exploit their longstanding access to millions of cable television subscribers, could also expand their offerings to respond to any opportunity in a market segment now served by T-Mobile USA. See Carlton Decl. ¶ 120.

More generally, this transaction will not eliminate a major competitive force from the marketplace. T-Mobile USA is now “struggling for relevance” in this increasingly competitive

165 SpectrumCo, a consortium of investors including Comcast and Time Warner Cable (but no longer Cox), holds AWS licenses for 20 MHz of spectrum covering over 80% of the continental U.S. and Hawaii. See, e.g., Time Warner Cable, Inc., Annual Report (2010 10-K) at 15 (Feb. 18, 2011). That spectrum is also a key source of potential new wireless entry. See Carlton Decl. ¶ 120.
In particular, its “pricing strategy is exposed at the low-end to challengers, such as Leap and Metro, while high ARPU [subscribers] are targeted by AT&T and Verizon’s higher quality positioning.”

While Sprint has turned itself around within the past two years, and while industry upstarts MetroPCS and Leap have grown with astonishing rapidity, T-Mobile USA’s percentage of subscribers nationwide has declined since 2009:

[Begin Confidential Information]

Carlton Decl. ¶ 126. T-Mobile USA had its worst decline ever in the fourth quarter of 2010, when it suffered a net loss of 23,000 total customers and a net loss of 318,000 contract customers. “T-Mobile USA’s high total churn, 3.4% at the end of Q3 2010[,] is significantly

[End Confidential Information]

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167 Carlton Decl. ¶ 130 (quoting Morgan Stanley, Deutsche Telekom, US Options—No Easy Way Out, at 3 (Jan. 10, 2011)).
168 Peter Pchal, Why Is T-Mobile Losing Customers?, PCMag.com (Feb 25, 2011), http://www.pcmag.com/article2/0,2817,2380949,00.asp.
higher when compared to national carriers such as Verizon Wireless and AT&T. This can be attributed to its customer base, which is more value oriented and now overwhelmingly skewed towards prepaid for net additions.”169 As DT’s Thorsten Langheim notes, T-Mobile USA is “struggling to remain a strong competitor in the wireless marketplace.” Langheim Decl. ¶ 11.

As an independent company, T-Mobile USA would also have decreasing significance in the higher end of the market because T-Mobile USA has no clear path to deploy LTE. See Section I.A, supra. And any potential LTE product T-Mobile USA could potentially deploy would be subject to substantial spectrum limitations and capital-financing challenges. See id. As discussed, DT has turned increasing attention to its European operations at the expense of its American subsidiary and, in January 2011, announced that T-Mobile USA can no longer rely on its parent for investment support and must instead “fund its future itself.”170

This transaction also will not harm competition for business customers because AT&T and T-Mobile USA are not frequent or close competitors in that space. See Christopher Decl. ¶¶ 25-26. AT&T offers a sophisticated suite of wireless business applications and services, and it focuses on offering an integrated value proposition that includes wireline services like VPN as well as wireless. Verizon and Sprint are AT&T’s primary competitors for those opportunities. In contrast, T-Mobile USA has a more limited offering, since it sells more basic wireless services and has no wireline operations. In short, T-Mobile USA is not a significant player in this customer segment, and where it does appear, there are other, stronger competitors involved as well.

169 Carlton Decl. ¶ 122 n.181 (quoting Current Analysis, Company Assessment: T-Mobile USA, at 5 (Jan. 18, 2011)).

170 Jan. 20, 2011 DT Analyst Briefing (Deutsche Telekom CEO Rene Obermann).
For all of these reasons, while consumers will benefit tremendously from the integration of these two companies’ networks, the elimination of T-Mobile USA as a standalone provider will not substantially reduce competition in any relevant market.

Finally, an international perspective is instructive. The U.S. marketplace is substantially less concentrated than its foreign counterparts, which themselves remain competitive, and it also differs from them in its “large number of regional and local mobile operators” offering nationwide service. As the Commission has observed, “each market [in Western Europe and Japan] tends to be dominated by the top two competitors, which have a combined market share ranging from approximately 70-72 percent in Germany and Italy to approximately 77-78 percent in France, Finland, and Japan.” As foreign regulators have recognized, consumers benefit when providers have the scope and scale they need to provide high-quality, cutting-edge services despite escalating wireless broadband usage. This Commission should not hobble the U.S. broadband marketplace with artificial constraints on these operating efficiencies.

**RELATED GOVERNMENTAL FILINGS**

The Department of Justice will conduct its own review of the competitive aspects of this transaction pursuant to the Hart-Scott-Rodino Antitrust Improvements Act of 1976 and the rules promulgated thereunder. The Applicants have submitted a notification form and an associated documentary appendix to the Department and the Federal Trade Commission, and they fully expect that this review will confirm that the transaction does not raise any competitive issues.

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172. *Id.* at 11622 ¶ 367; *see id.* at 11621 ¶ 365.

MISCELLANEOUS REGULATORY ISSUES

In addition to seeking the Commission’s approval of the assignments and transfer of control of the authorizations and spectrum leases covered in these applications, the applicants also request approval for the additional authorizations described below.

A. After-Acquired Authorizations

The list of call signs and file numbers included in each application is intended to include all of the licenses, authorizations, and spectrum leases held by the respective licensees or lessees that are subject to the transaction. However, T-Mobile USA licensees or lessees may now have on file, and may hereafter file, additional requests for authorizations for new or modified facilities that may be granted, or it may enter into new spectrum leases before the Commission takes action on these Applications. Accordingly, the applicants request that any Commission approval of the applications filed for this transaction include authority for AT&T to acquire control of: (1) any authorization issued to T-Mobile USA or its subsidiaries while this transaction is pending before the Commission and the period required for consummation of the transaction;174 (2) any construction permits held by T-Mobile USA or its subsidiaries that mature into licenses after closing; (3) any applications or lease notifications that are pending at the time of consummation; and (4) any leases of spectrum into which T-Mobile USA or its subsidiaries enter as lessees while this transaction is pending before the Commission and the period required

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174 In particular, the applicants request that any Commission approval of the applications include authority for AT&T to acquire control of spectrum acquired by T-Mobile USA from Sprint in a recent transaction. The Commission consented to T-Mobile USA’s acquisition of a partitioned/disaggregated portion of Sprint call sign KNLF215, and the parties consummated the transaction, but inadvertently failed to file a notice of consummation. The relevant application, ULS File No. 0004141100, is currently in a dismissal status, and T-Mobile USA and Sprint have pending before the Commission a petition for reinstatement of this and a related application assigning spectrum to Sprint.
for consummation of the transaction. Such action would be consistent with prior decisions of the Commission.175 Moreover, because AT&T is acquiring T-Mobile USA and all of its FCC authorizations, AT&T requests that Commission approval include any authorizations that may have been inadvertently omitted.

B. Trafficking

To the extent any authorizations for unconstructed systems are covered by this transaction, these authorizations are merely incidental, with no separate payment being made for any individual authorization or facility. Accordingly, there is no reason to review the transaction from a trafficking perspective.176

C. Blanket Exemption to Cut-Off Rules

Pursuant to Sections 1.927(h), 1.929(a)(2), and 1.933(b) of the Commission’s Rules,177 to the extent necessary,178 the applicants request a blanket exemption from any applicable cut-off


176 See 47 C.F.R. § 1.948(i) (noting that the Commission may request additional information regarding trafficking if it appears that a transaction involves unconstructed authorizations that were obtained for the principal purpose of speculation); id. § 101.55(c)-(d) (permitting transfers of unconstructed microwave facilities that are “incidental to a sale of other facilities or merger of interests”).

177 47 C.F.R. §§ 1.927(h), 1.929(a)(2), 1.933(b).
rules in cases where the licensees in this transaction file amendments to pending applications in order to reflect consummation of the proposed transaction. This exemption is requested to prevent amendments to pending applications that report the change in ultimate ownership of the licenses involved in these applications from being treated as major amendments. The nature of the proposed transaction demonstrates that the ownership changes would not be made for the acquisition of any particular pending application, but as part of a larger transaction undertaken for an independent and legitimate business purpose. Grant of this request would be consistent with prior Commission decisions that have routinely granted a blanket exemption in cases involving multiple-license transactions, such as this one. 179

D. Unjust Enrichment

No unjust enrichment concerns are implicated by this transaction. Although the applicants are filing a Form 603 to transfer control of T-Mobile USA’s interest in a designated entity, Cook Inlet/VS GSM VII PCS, LLC (“Cook Inlet VII”), that interest already is held by a

178 With respect to cut-off rules under Sections 1.927(h) and 1.929(a)(2), the Commission previously has found that the public notice announcing the transaction will provide adequate notice to the public with respect to the licenses involved, including for any license modifications pending. In such cases, it determined that a blanket exemption of the cut-off rules was unnecessary. See Memorandum Opinion and Order, Applications of Ameritech Corp. and GTE Consumer Services Inc. for Consent to Transfer Control of Licenses and Authorizations, 15 FCC Rcd 6667, 6668 ¶ 2 n.6 (1999); Memorandum Opinion and Order, Applications of Comcast Cellular Holdings, Co. and SBC Communic’ns Inc., 14 FCC Rcd 10604, 10605, ¶ 2 n.3 (1999).

non-designated entity—T-Mobile USA.\textsuperscript{180} The applicants are filing the Stock Purchase Agreement and related materials.

Several of T-Mobile USA’s authorizations originally were subject to the Commission’s installment payment plan. For all of these authorizations, however, the installment payment obligations have been paid in full.\textsuperscript{181}

\textbf{E. Environmental Impact}

As required by Section 1.923(e) of the Commission’s rules,\textsuperscript{182} the applicants state that the transfer of control of licenses and leases involved in this transaction will not have a significant environmental effect, as defined by Section 1.1307 of the Commission’s rules.\textsuperscript{183} A transfer of control of licenses and leases does not involve any engineering changes and, therefore, cannot have a significant environmental impact.

\textbf{CONCLUSION}

AT&T’s acquisition of T-Mobile USA from DT will serve the public interest. The Commission should expeditiously grant the applications to transfer control of T-Mobile USA’s FCC authorizations to AT&T.

\textsuperscript{180} T-Mobile USA’s interest in Cook Inlet VII is non-controlling by definition. Otherwise, Cook Inlet VII would not have qualified to bid on and hold its licenses as a designated entity. \textit{See} 47 C.F.R. § 1.2110; Fifth Report and Order, \textit{Amendment of Part 1 of the Comm’n’s Rules – Competitive Bidding Procedures}, 15 FCC Rcd 15293, 15323-28 ¶¶ 58-69 (2000) (“We will adopt as our general attribution rule a ‘controlling interest’ standard for determining which applicants qualify as small businesses.”) (subsequent history omitted).

\textsuperscript{181} \textit{See} ULS File Nos. 0004669383, 0004673673, 0004673727, 0004673730, and 0004673732. The application to transfer control of licenses held by Iowa Wireless Services Holding Corporation also involves spectrum originally subject to the Commission’s installment payment program. This application is being filed manually and as such a file number has not yet been assigned.

\textsuperscript{182} 47 C.F.R. § 1.923(e).

\textsuperscript{183} \textit{Id.} § 1.1307.